

## Native Vegetation Clearance

## Bratten Way Road Upgrade (Stage 7)

## Data Report

Clearance under the *Native Vegetation Regulations 2017*30 April 2025

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# 1. Application information

**Application Details** 

Applicant:							
Key contact:							
Landowner:	Road easement						
Site Address:	Bratten Way road easement						
Local Government	The Lower Eyre Council	Hundred:	Cummins (510100)				
Area:							
Title ID:	Bratten Way road easement	Parcel ID	Not applicable				

Summary of proposed clearance	
Purpose of clearance	The clearance of vegetation is required to upgrade a 2.10 km section of Bratten Way. Bratten Way is a sealed road that connects the Lincoln Highway to Flinders Highway linking the three important regional towns of Tumby Bay, Cummins and Elliston. The current Bratten Way Rehabilitation/Upgrade project was brought about by a rapid deteriorating condition of Bratten Way during the 2016/2017 harvest season. In addition to the strength upgrade there are requirements to construct the road geometry to the current minimum design standards for safety. Installing current minimum road width and batter slope standards mean that the constructed road footprint needs to be increased to accommodate these standards.
	The flattening of the batters is required due to the steep 1:3 slopes on the existing road. This is required for both safety (minimum design standards) and in order to be able to have enough room to construct the widened pavement. The batters adopted in the design are at a grade of 1:4 which is the minimum allowed under that Aust Roads design standards. The preferred batter grade in the design standards is 1:6 which would see the area of impact increased by up to 50%. The applicant has made the decision that as the project is a road upgrade, and the increased impact implementing the preferred standards would have on the adjacent native vegetation that the bare minimum standards would be adopted for the project.
Native Vegetation Regulation	It is considered that native vegetation clearance required for this project falls under the provisions of Division 5 of the <i>Native Vegetation Regulations 2017</i> which provide for the clearance of native vegetation under Part 6 - Other activities (regulation 12), Clause 32 - Works on behalf of Commissioner of Highways or Part 6 - Other activities (regulation 12), Clause 34 - Infrastructure.
Description of the vegetation under application	0.77 ha of *Scabiosa atropurpurea, *Asphodelus fistulosus Herbland +/- Dampiera rosmarinifolia, Austrostipa sp., Lasiopetalum behrii (Very poor condition) and 0.77 ha of Eucalyptus diversifolia ssp. diversifolia, Eucalyptus odorata, Eucalyptus peninsularis, Eucalyptus incrassata Mallee to Open Mallee over Melaleuca uncinata, Templetonia retusa, Lasiopetalum behrii and Dampiera rosmarinifolia (Very good condition).
Total proposed clearance - area (ha) and number of trees	A total of 1.55 ha of vegetation will require permanent clearance for the upgrade to Bratten Way (Stage 7). This includes: 0.77 ha of *Scabiosa atropurpurea, *Asphodelus fistulosus Herbland +/- Dampiera rosmarinifolia, Austrostipa sp., Lasiopetalum behrii (Very poor condition) and 0.77 ha of Eucalyptus diversifolia ssp. diversifolia, Eucalyptus odorata, Eucalyptus peninsularis, Eucalyptus incrassata

	Mallee to Open Mallee over <i>Melaleuca uncinata, Templetonia retusa, Lasiopetalum behrii</i> and <i>Dampiera rosmarinifolia</i> (Very good condition).
Level of clearance	Level 4.
Overlay (Planning and Design Code)	The Project area is within the Native Vegetation Overlay.
Map of proposed clearance area	3
Refer to Figure 2 to Figure 9.	
Mitigation hierarchy	The Lower Eyre Council is implementing the minimum batter grades of 4.0% instead of the preferred grade of 6.0% in order to avoid and minimise the amount of vegetation impacted by the project.
	The Lower Eyre Council will engage a contractor for the road upgrade works. The contractor will be required to work to an Integrated Management Plan (Project Integrated Management System- PIMS) which encompasses all aspects of Project Delivery, Safety, Quality and Environment systems. As a minimum, the following actions will be undertaken during construction to prevent direct and indirect impacts to vegetation:
	<ul> <li>Placing and storing equipment, vehicles and machinery away from vegetated areas;</li> <li>Placing soil and rock stockpiles away from vegetated areas; and</li> <li>Suppressing dust to prevent indirect impacts.</li> </ul>
	The clearance required for the Bratten Way road upgrade will be permanent and rehabilitation or restoration will not be possible.
SEB Offset proposal	The proponent is proposing to pay into the Native Vegetation Fund. The total payment required is \$55,499.68 which includes an SEB payment of \$52,606.33 and an administration fee of \$2,893.35.

# 2. Purpose of clearance

## 2.1 Description

The clearance of vegetation is required to upgrade a 2.10 km section of Bratten Way (Stage 7). Bratten Way is a sealed road that connects the Lincoln Highway to Flinders Highway linking the three important regional towns of Tumby Bay, Cummins and Elliston. The current Bratten Way Rehabilitation/Upgrade project was brought about by a rapid deteriorating condition of Bratten Way during the 2016/2017 harvest season. In addition to the strength upgrade there are requirements to construct the road geometry to the current minimum design standards for safety. Installing current minimum road width and batter slope standards mean that the constructed road footprint needs to be increased to accommodate these standards.

The flattening of the batters is required due to the steep 1:3 slopes on the existing road. This is required for both safety (minimum design standards) and in order to be able to have enough room to construct the widened pavement. The batters adopted in the design are at a grade of 1:4 which is the minimum allowed under that Aust Roads design standards. The preferred batter grade in the design standards is 1:6 which would see the area of impact increased by up to 50%. The applicant has made the decision that as the project is a road upgrade, and the considerable impact implementing the preferred standards would have on the adjacent native vegetation; that the bare minimum standards would be adopted for the project.

The road functions as both Freight and Community Access. This is demonstrated by the listing of the road as a Level 1 Freight Route in the 2020 Eyre Peninsula Local Government Association (EPLGA) Regional Transport Strategy. This is based on the strategic location of the road within the sub-regional road network by connecting the Tod and Flinders Highway plus the DIT controlled section of the Bratten Way thereby connecting to the Lincoln Highway.

Prior to the early 2000's Bratten Way was an open surface (unsealed road). In the early 2000's due to the traffic volumes increasing to the point that it was unviable to maintain the unsealed road in a serviceable condition, funding was sought to have the road upgraded and sealed. The section that is proposed to be upgraded was originally constructed in 2004. At that time the formation material (i.e. fill material, not pavement) was harvested from the road reserve with borrow pits being scattered throughout the length of the road.

Council engaged a pavement engineer to undertake an investigation into the cause of the failures and it was found that the material the pavement was constructed from did not meet the strength requirements needed to withstand the current day freight task; noting that there has been a 235% increase in heavy vehicles and a 1,400% increase in large heavy vehicles since 1999.

The failed section of the road presented a major hazard to the road users which resulted in the speed limits being reduced on the road to manage the risks until the condition of the road could be remediated in the failed sections.

The remediation works required on Bratten Way, given the extents of works required is in excess of 37 km; is beyond the financial capacity for Lower Eyre Council to fund. The sections that have been completed so far have been externally funded in part through the state governments Special Local Road Program.

A total of 1.55 ha of vegetation will require permanent clearance for the upgrade to Bratten Way. The total 1.55 ha of vegetation will attract a loss factor of '1' (Complete removal of vegetation under assessment).

### 2.2 Background

The vegetation clearance proposal for the upgrade to Bratten Way (Stage 6) was approved (decision date) 24 December 2024 (Application number: 2024/3296/932).

The Project area is situated within the Eyre Yorke Block IBRA bioregion of SA, the Eyre Hill subregion and the Cummins IBRA association. The Cummins IBRA association covers 37,086 ha, of which 1,374 ha or 4% contains vegetation. None of the vegetation within the Cummins IBRA association is protected (NatureMaps 2025). The southern boundary of the NPWSA Shannon Conservation Park is located approximately 25 km north of the Project area. The Shannon Conservation Park covers an area of 792 ha (Figure 1).

The Project area occurs in the Hundred of Cummins, the Local Government Area of the Lower Eyre Council and the Eyre Peninsula Landscape Management Region.

The current and historical use of the land adjoining the Project area is dryland agriculture such as cropping (mainly wheat and barley).

## 2.3 General location map

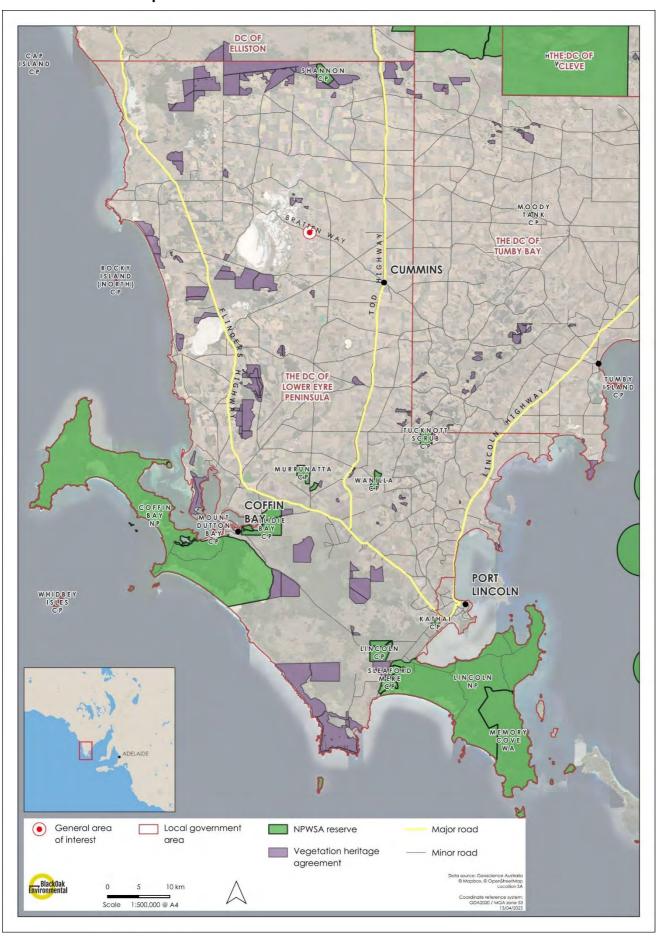


Figure 1. General location of the project area.

### 2.4 Details of the proposal

A total of 1.55 ha of vegetation will require permanent clearance for the upgrade to Bratten Way (Stage 7). This includes: 0.77 ha of \*Scabiosa atropurpurea, \*Asphodelus fistulosus Herbland +/- Dampiera rosmarinifolia, Austrostipa sp., Lasiopetalum behrii (Very poor condition) and 0.77 ha of Eucalyptus diversifolia ssp. diversifolia, Eucalyptus odorata, Eucalyptus peninsularis, Eucalyptus incrassata Mallee to Open Mallee over Melaleuca uncinata, Templetonia retusa, Lasiopetalum behrii and Dampiera rosmarinifolia (Very good condition). The total 1.55 ha of vegetation will attract a loss factor of '1' (Complete removal of vegetation under assessment).

The design plan overlaid on a series of aerial images is provided in Figure 1 to 9. The GIS shapefiles for the proposed project will be provided on submission of the Native Vegetation Clearance Proposal.

## 2.5 Approvals required or obtained

## Native Vegetation Act 1991

Native vegetation in SA is protected under the NV Act and *Native Vegetation Regulations 2017*. Any proposed clearance of native vegetation in SA (unless exempt under the *Native Vegetation Regulations 2017*) is to be assessed against the NV Act Principles of Clearance and requires approval from the Native Vegetation Council (NVC). The NVC will assess the clearance against whether there are any other alternatives that involve no clearance, less clearance or clearance of vegetation that is less significant (or has been degraded to a greater extent than the vegetation proposed to be cleared).

Clearance can occur if development consent is granted under the *Planning, Development and Infrastructure Act 2016* and the provision of a Significant Environmental Benefit (SEB) (on-ground or payment) is approved by the NVC; and SEB: Required as per SEB approval (or payment into the Native Vegetation Fund). Clearance under the NV Act is the subject of this assessment and proposal. There have not been any past clearance applications or approvals for the subject land.

## **Environment Protection and Biodiversity Conservation Act 1999**

The Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) protects Matters of National Environmental Significance (MNES) which includes Ramsar Wetlands, threatened species, threatened ecological communities (TEC) and migratory species. Any significant impacts on MNES require the approval of the Commonwealth Minister for the Environment. A Protected Matters Report (PMR) was generated on 14 April 2025 to identify MNES under the EPBC Act. The PMR is maintained by Department of Climate Change, Energy, the Environment and Water (DCCEEW) and was used to identify flora and or ecological communities of national environmental significance that may occur or have suitable habitat within the 5 km of the project area.

All MNES applicable to the project area have been considered in this assessment and proposal.

## National Parks and Wildlife Act 1972

The *National Parks and Wildlife Act 1972* (NPW Act) provides for the establishment and management of reserves for public benefit and enjoyment; to provide for the conservation of wildlife in a natural environment; and for other purposes. Impacts to flora and fauna species listed under National Parks Schedules have been considered in this assessment and proposal.

The southern boundary of the NPWSA Shannon Conservation Park is located approximately 25 km north of the project area. The Shannon Conservation Park covers an area of 792 ha (Figure 1).

## Planning, Development and Infrastructure Act 2016

The *Planning, Development Infrastructure Act 2016* (PDI Act) provides for planning and regulates development in the State, to regulate the use and management of land and buildings and the design and construction of buildings. Subject to this Act, no development may be undertaken unless the development is an approved development. A development is an approved development if, and only if, a relevant authority has assessed the development against, and granted consent in respect of the provisions of an appropriate Development Plan. The PDI Act establishes a new planning and development scheme to replace the previous scheme operating under the *Development Act 1993*.

## 2.6 Native Vegetation Regulation

It is considered that native vegetation clearance required for this project falls under the provisions of Division 5 of the *Native Vegetation Regulations 2017* which provide for the clearance of native vegetation under Part 6 - Other activities (regulation 12), Clause 32 - Works on behalf of Commissioner of Highways or Part 6 - Other activities (regulation 12), Clause 34 - Infrastructure.

## 2.7 Development Application information (if applicable)

The Project area is within the Native Vegetation (O4202) Overlay.

## 3. Method

#### 3.1 Flora assessment

A desktop assessment was conducted to assess the potential for any threatened flora species (both Commonwealth and State listed) to occur within the Project area. This was achieved by undertaking database searches of a 5 km buffer of the Project area, as specified in the Bushland Assessment Method (BAM) manual (NVC 2020).

A Protected Matters Report (PMR) was generated on 14 April 2025 to identify MNES (Matters of National Environmental Significance) under the EPBC Act (DCCEEW 2019). The PMR is maintained by DCCEEW and was used to identify flora and or ecological communities of national environmental significance that may occur or have suitable habitat within the Project area.

Flora species listed under South Australia's NPW Act were assessed using the NatureMaps Supertable, obtained through the general query tool on NatureMaps. The dataset was obtained on 14 April 2025. Only records from and after the year 1995, with a spatial reliability <1 km were used as specified in the Bushland Assessment Method (BAM) manual (NVC 2020). Known records of threatened species listed under the EPBC Act were also identified within this search.

The flora survey was conducted 3-4 April 2025 by NVC accredited consultant Matt Launer. The flora assessment was performed in accordance with the BAM (NVC 2017). The Native Vegetation Council (NVC) BAM is suitable for assessing vegetation that is located within the agricultural region of South Australia. The BAM uses biodiversity 'surrogates' or 'indicators' to measure biodiversity value against benchmark communities. Each area to be assessed is termed an application area ('block'), within which different vegetation associations ('sites') are identified and compared to the Nature Conservation Society of South Australia's 'benchmark' vegetation communities.

The project area was traversed on foot. A representative 1 ha quadrat was surveyed for each vegetation and condition type within the Project area. Three components of the biodiversity value of the site were measured and scored. These are: vegetation condition, conservation value and landscape context. The three component scores were combined to provide the Unit Biodiversity Score (per ha) and then multiplied by the size (ha) of the site to provide a 'Total Biodiversity Score' for the site. This was used to calculate a Significant Environmental Benefit (SEB) area and value for payment in to the Native Vegetation Fund derived from the clearance of native vegetation (NVC 2017).

The survey also included targeted searches for species listed under the NPW Act 1972 and the EPBC Act 1999.

### 3.2 Fauna assessment

A desktop assessment was conducted to assess the potential for any threatened fauna species (both Commonwealth and State listed) to occur within the Project area. This was achieved by undertaking database searches of a 5 km buffer of the project area, as specified in the Bushland Assessment Method (BAM) manual (NVC 2017).

A PMR was generated on14 April 2024 to identify MNES (Matters of National Environmental Significance) under the EPBC Act (DCCEEW 2019). The PMR is maintained by DCCEEW and was used to identify fauna species of national environmental significance that may occur or have suitable habitat within the project area.

Fauna species listed under South Australia's NPW Act were assessed using the NatureMaps Supertable, obtained through the general query tool on NatureMaps. The dataset was obtained on 14 April 2025 and was used to identify threatened species that have been recorded within the 5 km buffer of the Project area. Only records from and after the year 1995, with a spatial reliability <1 km were used as specified in the Bushland Assessment Method (BAM) manual (NVC 2020). Known records of threatened species listed under the EPBC Act were also identified within this search. The Project area was traversed on foot. All birds that could be positively identified by sight or call were recorded. All vertebrate fauna species, signs of species (scats, tracks etc.) and potential habitat for fauna was recorded. The value of habitat for the threatened fauna species identified in the desktop assessment was also determined when surveying the project area.

## 4. Assessment Outcomes

## 4.1 Vegetation Assessment

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

The Project area contains two vegetation associations, these were: Eucalyptus diversifolia ssp. diversifolia, Eucalyptus odorata, Eucalyptus peninsularis, Eucalyptus incrassata Mallee to Open Mallee over Melaleuca uncinata, Templetonia retusa, Lasiopetalum behrii and Dampiera rosmarinifolia and Dampiera rosmarinifolia and \*Scabiosa atropurpurea, \*Asphodelus fistulosus Herbland +/- Dampiera rosmarinifolia, Austrostipa sp., Lasiopetalum behrii. The project area is restricted to the Bratten Way embankment and road reserve. The project area contained sand over clay and calcareous loam and ironstone gravelly sandy loam soils.

The 2.10 km section that is proposed to be upgraded was originally constructed in 2004. Previous disturbance from the initial construction of Bratten Way in 2004 includes borrow pits and vehicle tracks.

A total of 71 flora species were recorded within the project area which included 55 native species and 16 introduced species (Appendix 3). Three of the weed species recorded, *Asparagus asparagoides f. asparagoides* (Bridal Creeper), *Pinus halepensis* (Aleppo Pine) and *Diplotaxis tenuifolia* (Lincoln Weed) are listed as declared species under the *Landscape South Australia Act 2019*.

There were no threatened ecological communities or conservation rated flora or fauna species recorded within the project area during the survey.

The current and historical use of the land adjoining the project area is dryland agriculture such as cropping (mainly wheat and barley).

The southern boundary of the NPWSA Shannon Conservation Park is located approximately 25 km north of the Project area. The Shannon Conservation Park covers an area of 792 ha (Figure 1). The Project area is situated within the Eyre Yorke Block IBRA bioregion of SA, the Eyre Hill subregion and the Cummins IBRA association. The Cummins IBRA association covers 37,086 ha, of which 1,374 ha or 4% contains vegetation. None of the vegetation within the Cummins IBRA association is protected (NatureMaps 2025).

The Project area occurs in the Hundred of Cummins, the Local Government Area of the Lower Eyre Council and the Eyre Peninsula Landscape Management Region.

## Details of the vegetation associates/scattered trees proposed to be impacted

Vegetation Association Eucalyptus diversifolia ssp. diversifolia, Eucalyptus odorata, Eucalyptus peninsularis, Eucalyptus incrassata Mallee to Open Mallee over Melaleuca uncinata, Templetonia retusa, Lasiopetalum behrii and Dampiera rosmarinifolia





## General description

A total of 65 flora species were recorded within the *Eucalyptus diversifolia ssp. diversifolia*, *Eucalyptus odorata*, *Eucalyptus peninsularis*, *Eucalyptus incrassata* Mallee to Open Mallee over *Melaleuca uncinata*, *Templetonia retusa*, *Lasiopetalum behrii* and *Dampiera rosmarinifolia* vegetation association which includes: 55 native species and 10 introduced species (Appendix 3). Two of the weed species recorded, *Asparagus asparagoides f. asparagoides* (Bridal Creeper) and *Pinus halepensis* (Aleppo Pine) are listed as declared species under the *Landscape South Australia Act 2019*.

The vegetation association occurs on an undulating plain within the Bratten Way Road Reserve. The vegetation association contained six mallee species: *Eucalyptus peninsularis* (Merrit), *Eucalyptus odorata* (Peppermint Box), *Eucalyptus diversifolia ssp. diversifolia* (Coastal White Mallee), *E. incrassata* (Ridge-fruited Mallee), *E. gracilis* (Yorrell) and *E. petiolaris* (Eyre Peninsula Blue Gum) which recorded an average height of 3.5 m.

Tall shrub and tree species sparsely distributed within the vegetation association included: *Allocasuarina verticillata* (Drooping Sheoak), *Callitris gracilis* (Southern Cypress Pine) and *Melaleuca lanceolata* (Dryland Tea-tree).

Common midstorey species were: *Melaleuca uncinata* (Broombush), *Templetonia retusa* (Cockies Tongue), Acacia microcarpa (Manna Wattle), *Lasiopetalum baueri* (Slender Velvetbush) and *Dodonaea hexandra* (Horned Hop-bush).

Dampiera rosmarinifolia (Rosemary Dampiera) formed large clumps within the understorey layer. Other common understorey species included: *Austrostipa elegantissima* (Feather Spear-grass), *Gahnia deusta* (Limestone Saw-sedge), *Rytidosperma sp.* (Wallaby-grass),

	Lomandra collina (Sand Mat-rush), Enchylaena tomentosa var. tomentosa (Ruby Saltbush) and Rhagodia crassifolia (Fleshy Saltbush).								
	existing road.	The area has been exposed to previous disturbance, likely to be from the construction of the existing road. There are some open patches that are more disturbed, with higher weed cover and lower native plant species richness.							
	The vegetation was considered to be in very good condition (Vegetation condition score = 66.14).								
Threatened species or community	There were no threatened ecological communities or conservation rated fauna species recorded within the project area during the survey.								
	Haloragis eyreana (Prickly Raspwort) (EPBC Act: Endangered, NPW Act: Endangered) could possibly occur as suitable habitat exists. Haloragis eyreana was not recorded during the survey despite extensive searching. The Diamond Firetail (Stagonopleura guttata) (EPBC Act: Vulnerable, NPW Act: Vulnerable) could possibly occur as there is suitable habitat within sections of the BAM A1. There are several Diamond Firetail records within a 25 km radius of the project area (NatureMaps 2025).								
Landscape context	1.15	Vegetation	66.14	Conservation	1.08				
score		Condition Score		significance score					
Unit biodiversity Score	82.15	Area (ha)	0.78	Total biodiversity Score	64.08				

Vegetation Association \*Scabiosa atropurpurea, \*Asphodelus fistulosus Herbland +/- Dampiera rosmarinifolia, Austrostipa sp., Lasiopetalum behrii





## General description

A total of 17 flora species were recorded within the \*Scabiosa atropurpurea Herbland +/-Dampiera rosmarinifolia, Austrostipa sp., Lasiopetalum behrii vegetation association which includes: Four native species and 13 introduced species (Appendix 3). One of the weed species recorded, Diplotaxis tenuifolia (Lincoln Weed) is listed as a declared species under the Landscape South Australia Act 2019.

The vegetation association occurs on the embankment and road reserve of Bratten Way in a section between the road shoulder and the *Eucalyptus diversifolia ssp. diversifolia*, *Eucalyptus odorata*, *Eucalyptus peninsularis*, *Eucalyptus incrassata* Mallee to Open Mallee over *Melaleuca uncinata*, *Templetonia retusa*, *Lasiopetalum behrii* and *Dampiera rosmarinifolia* vegetation association. The area has been subject to previous clearance from the construction of the existing road in 2004 and ongoing disturbance from herbicide spraying and slashing.

Approximately 5% of the understorey biomass is native species. Common introduced species were: *Scabiosa atropurpurea* (Pincushion), *Dittrichia graveolens* (Stinkweed), *Salvia verbenaca var*. (Wild Sage), *Asphodelus fistulosus* (Onion Weed) and *Trifolium arvense var. arvense* (Hare's-foot Clover).

The distance into the road reserve from the road shoulder was the main factor for increased native species diversity. Low growing herbaceous and grassy species included: Lasiopetalum baueri (Slender Velvet-bush), Enneapogon nigricans (Black-head Grass), Dampiera rosmarinifolia (Rosemary Dampiera), Austrostipa sp. (Spear-grass) and Rytidosperma sp. (Wallaby-grass).

	The vegetati = 4.06).	on was considered to b	e in very poor	condition (Vegetation cond	dition score	
Threatened species or community	There were no threatened ecological communities or conservation rated flora or fauna species recorded within the *Scabiosa atropurpurea, *Asphodelus fistulosus Herbland +/- Dampiera rosmarinifolia, Austrostipa sp., Lasiopetalum behrii Bushland Assessment Quadrat.					
Landscape context score	1.15	Vegetation Condition Score	4.06	Conservation significance score	1.00	
Unit biodiversity Score	4.67	Area (ha)	0.78	Total biodiversity Score	3.64	

## **Site map** showing areas of proposed impact



Figure 1. Vegetation clearance footprint with project design (map 1 of 8).



Figure 3. Vegetation clearance footprint with project design (map 2 of 8).



Figure 4. Vegetation clearance footprint with project design (map 3 of 8).



Figure 5. Vegetation clearance footprint with project design (map 4 of 8).



Figure 6. Vegetation clearance footprint with project design (map 5 of 8).



Figure 7. Vegetation clearance footprint with project design (map 6 of 8).



Figure 8. Vegetation clearance footprint with project design (map 7 of 8).



Figure 9. Vegetation clearance footprint with project design (map 8 of 8).

## 4.2 Threatened Species assessment

## **Threatened Ecological Communities**

One threatened ecological community (TEC) was identified in the PMR as potentially occurring within 5 km of the Project area. This was the Eyre Peninsula Blue Gum (*Eucalyptus petiolaris*) Woodland (EPBC Act: Endangered). No TEC's were recorded within the project area during the field survey.

## Provisional List of Threatened Ecosystems of SA

The two vegetation associations recorded within the project area are not listed under the Provisional List of Threatened Ecosystems of SA (NVC 2020). These are:

- Eucalyptus diversifolia ssp. diversifolia, Eucalyptus odorata, Eucalyptus peninsularis, Eucalyptus incrassata Mallee to Open Mallee over Melaleuca uncinata, Templetonia retusa, Lasiopetalum behrii and Dampiera rosmarinifolia.
- \*Scabiosa atropurpurea, \*Asphodelus fistulosus Herbland +/- Dampiera rosmarinifolia, Austrostipa sp., Lasiopetalum behrii.

## Nationally threatened flora

Eleven nationally threatened flora species were identified in the PMR as potentially occurring within 5 km of the Project area. Three of these species were listed as 'Species or species habitat known to occur in the area'. These were: *Haloragis eyreana* (Prickly Raspwort) (EPBC Act: Endangered, NPW Act: Endangered), *Bossiaea peninsularis* (Sword Bossiaea) (EPBC Act: Endangered, NPW Act: Endangered) and *Angianthus phyllocalymmeus* (Silver Candles) (EPBC Act: Vulnerable, NPW Act: Vulnerable).

Haloragis eyreana and Bossiaea peninsularis were identified in the database search as being previously recorded within 5 km of the project area since 1995.

Acacia pinguifolia (Fat-leaved Wattle, Fat-leaf Wattle) (EPBC Act: Endangered, NPW Act: Endangered) was recorded during the field survey for Stage 6 (Figure 11). Three clusters containing a total of 90 shrubs were recorded. No threatened flora species listed under the EPBC Act were recorded during the current field survey.

## State threatened flora

No threatened flora species listed under the NPW Act were identified in the NatureMaps database search as being previously recorded within 5 km of the project area since 1995. No threatened flora species listed under the NPW Act were recorded during the field survey.

## Nationally threatened fauna

Fourteen fauna species protected under the EPBC Act were identified by the PMST as potentially occurring or having suitable habitat within 5 km of the Project area. This includes 13 bird species and one mammal species. Two of these species were listed as 'Species or species habitat known to occur in the area'. These were: Diamond Firetail (Stagonopleura guttata) (EPBC Act: Vulnerable, NPW Act: Vulnerable) and Sharp-tailed Sandpiper (Calidris acuminata) (EPBC Act: Vulnerable).

The Diamond Firetail was identified in the database search as being previously recorded within 5 km of the project area since 1995 (Figure 10). No threatened fauna species listed under EPBC Act were recorded during the field survey.

#### State threatened fauna

No threatened fauna species listed under the NPW Act were identified in the NatureMaps database search as being previously recorded within 5 km of the project area since 1995. No threatened fauna species were recorded during the field survey.

## Species observed on site, or recorded within 5 km of the application area since 1995, or the vegetation is considered to provide suitable habitat

Species (common name)	NP&W Act	EPBC Act	Data source	Date of last record	Species known habitat preferences	Likelihood of use for habitat – Comments
Flora					<u> </u>	
Acacia pinguifolia (Fat-leaved Wattle, Fat-leaf Wattle)	E	EN	Recorded during Stage 6	2024	The Fat-leaved Wattle is endemic to South Australia and has a widely separated distribution with disjunct populations located on Eyre Peninsula and Fleurieu Peninsula. It is an understorey shrub occurring in mallee, open woodland, open scrub, shrubland or heath. The species is more abundant in open and disturbed vegetation.	Unlikely: Three clusters containing a total of 90 shrubs were recorded during the 2024 survey for Stage 6. Not recorded during the 2025 survey despite extensive searching.
Angianthus phyllocalymmeus (Silver Candles)	V	VU	3, 5	2001	Occurs on Eyre Peninsula and Yorke Peninsula. Silver candles occur on sandy loams to clay loams or light clays. Sites are sometimes gypseous. The species occurs on the margins of coastal saline lakes and depressions, and low-lying stream channels and watercourses. On Eyre Peninsula the species predominantly occurs in shrubland and grassland.	Unlikely: No suitable habitat occurs within the project area.
Bossiaea peninsularis (Sword Bossiaea)	Е	EN	3, 5	2008	The sword bossiaea is endemic to the Eyre Peninsula in South Australia. The sword Bossiaea occurs on sandy soils surrounding salt marshes and lakes near Lake Brimpton	Unlikely: No suitable habitat occurs within the project area. The project area is located approximately 1 km from salt marsh

					and Karkoo on Eyre Peninsula.	vegetation associated with Lake Malata.
Haloragis eyreana (Prickly Raspwort)	E	EN	3, 5	1997	The Prickly Raspwort is endemic to South Australia and is confined to the southern part of Eyre Peninsula. Occurs in low-lying areas on poorly drained clay loam soils that tend to be waterlogged in winter. Most collections have been made in disturbed open grassland, and the species has only occasionally been found in more intact habitat where it is associated with Eucalyptus incrassata (Ridge-fruited Mallee), E. dumosa (Dumosa Mallee) or Melaleuca decussata (Totempoles).	Possible: Suitable habitat occurs within sections of the BAM A1. Not recorded during the survey despite extensive searching.
Birds					<u> </u>	<u> </u>
Calidris acuminata (Sharp-tailed Sandpiper)		VU	5	No records	Prefers the grassy edges of shallow inland freshwater wetlands. It is also found around swage farms, flooded fields, mudflats, mangroves, rocky shores and beaches. Its breeding habitat in Siberia is the peat-hummock and lichen tundra of the high Arctic.	Unlikely: No suitable habitat occurs within the project area.
Stagonopleura guttata (Diamond Firetail)	V	VU	3, 5	2010	Diamond firetails occur on the south-east mainland of Australia from south-east Queensland to Eyre Peninsula, South Australia, and about 300 km inland from the sea. Diamond firetails occur in	Possible: Suitable habitat occurs within sections of the project area. There are several records within a 25 km radius of the project area

			Eucalypt, acacia or casuarina woodlands, open forests and other lightly timbered habitats, including farmland and grassland with scattered trees. They prefer areas with relatively low tree density, few large logs,	(NatureMaps 2025)	
			,		1

Source; 1- BDBSA, 2 - AoLA, 3 - NatureMaps, 4 - Observed/recorded in the field, 5 - Protected matters search tool, 6 - others NP&W Act; E= Endangered, V = Vulnerable, R= Rare

EPBC Act; Ex = Extinct, CR = Critically endangered, EN = Endangered; VU = Vulnerable

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

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.

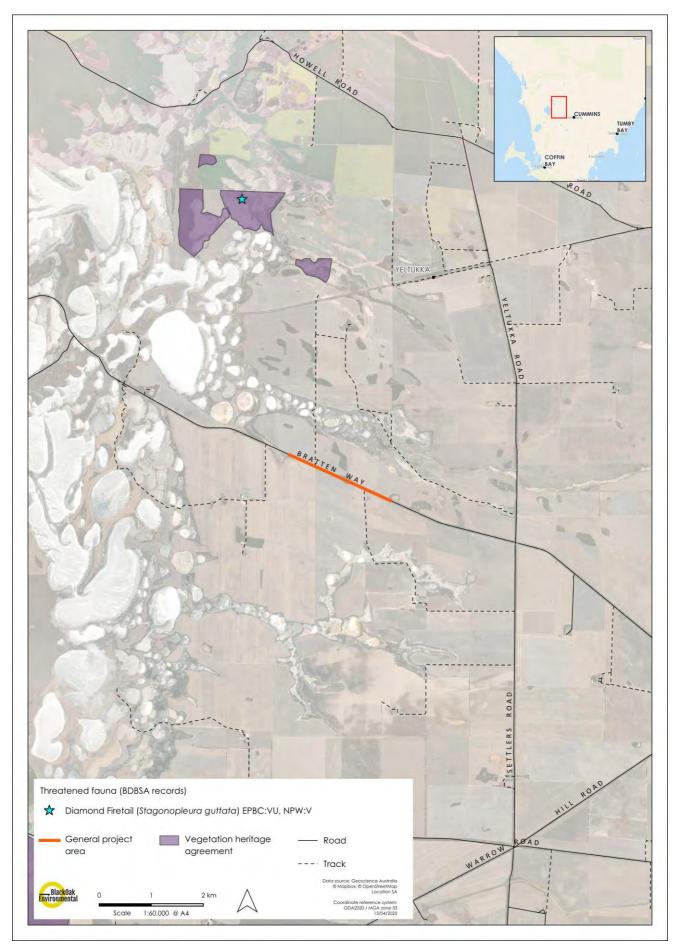


Figure 10. Threatened fauna species identified within 5 km of the project area since 1995 with a spatial reliability <1 km.

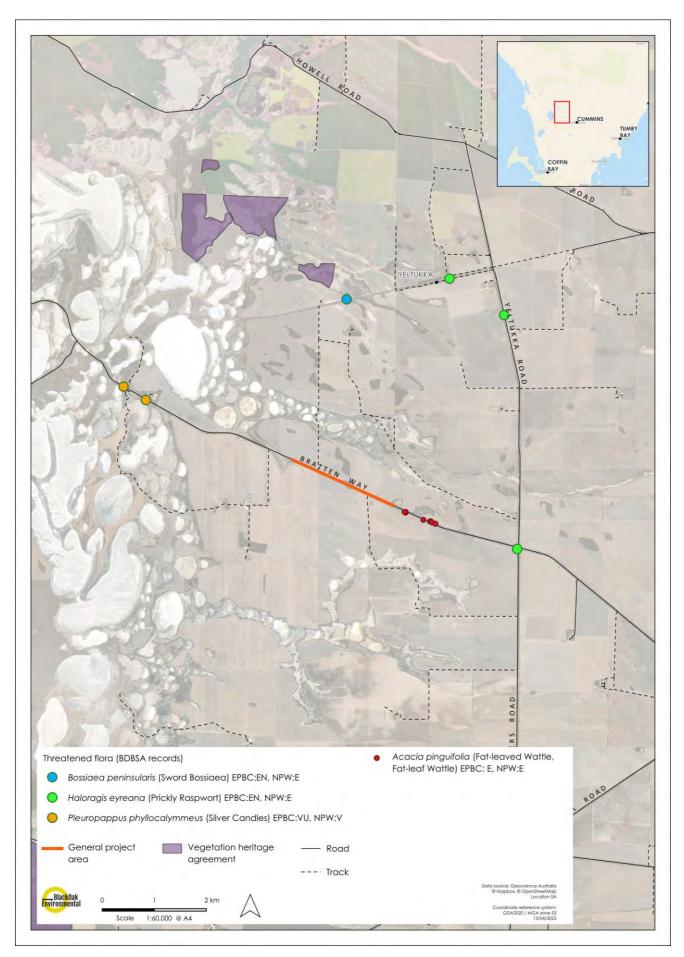


Figure 11. Threatened fauna species identified within 5 km of the project area since 1995 with a spatial reliability <1 km.

## 4.3 Cumulative impact

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

A total of 1.55 ha of vegetation will require permanent clearance for the upgrade to Bratten Way (Stage 7). Impacts that may occur as a result of the development have been identified and controls will be implemented in accordance with Lower Eyre Council procedures and guidelines.

The Lower Eyre Council will engage a contractor for the road upgrade works. The contractor will be required to work to an Integrated Management Plan (Project Integrated Management System- PIMS) which encompasses all aspects of Project Delivery, Safety, Quality and Environment systems. As a minimum, the following actions will be undertaken during construction to prevent direct and indirect impacts to vegetation:

- Placing and storing equipment, vehicles and machinery away from vegetated areas;
- Placing soil and rock stockpiles away from vegetated areas; and
- Suppressing dust to prevent indirect impacts.

All matters listed in the 'Guide for clearance applications' have been considered. Clearance may be further refined during the detailed design and engagement of the construction contractor.

## 4.4 Address the Mitigation Hierarchy

When exercising a power or making a decision under Division 5 of the Regulations, the NVC must have regard to the mitigation hierarchy. The NVC will also consider, with the aim to minimise, 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

The Lower Eyre Council will engage a contractor for the road upgrade works. The contractor will be required to work to an Integrated Management Plan (Project Integrated Management System- PIMS) which encompasses all aspects of Project Delivery, Safety, Quality and Environment systems. As a minimum, the following actions will be undertaken during construction to prevent direct and indirect impacts to vegetation:

- Placing and storing equipment, vehicles and machinery away from vegetated areas;
- Placing soil and rock stockpiles away from vegetated areas;
- Clearly marking on ground or fencing (barrier mesh) areas (i.e. *Acacia pinguifolia* clusters) that are to be avoided at all times to prevent unintended impacts or accidental clearance; and
- Suppressing dust to prevent indirect impacts.
- b) Minimisation if clearance cannot be avoided, outline measures taken to minimise 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).

The project footprint utilises areas which have been previously cleared, or partially cleared of vegetation (where possible, i.e., engineering constraints). The Council is implementing the minimum batter grades of 4.0% instead of the preferred grade of 6.0% in order to avoid and minimise the amount of vegetation impacted by the project.

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 minimised, such as allowing for the re-establishment of the vegetation. The clearance required for the Bratten Way road upgrade will be permanent and rehabilitation or restoration will not be possible.

d) Offset – any adverse impact on native vegetation that cannot be avoided or further minimised should be offset by the achievement of a significant environmental benefit that outweighs that impact.

The proponent is proposing to pay into the Native Vegetation Fund. The total payment required is \$55,499.68 which includes an SEB payment of \$52,606.33 and an administration fee of \$2,893.35.

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

The NVC 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 NVC 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	Considerations					
Principle 1a -	Relevant information	n				
it comprises a high level of diversity of	Block A: (A1) Eucalyp Eucalyptus incrassate Lasiopetalum behrii	otus diversifolia ssp. a Mallee to Open M	lallee over <i>Melaleu</i>		•	
plant species	A total of 65 flora sp. Eucalyptus odorata, Melaleuca uncinata, vegetation association Two of the weed sperinus halepensis (Ale Act 2019.	Eucalyptus peninsul Templetonia retusa on which includes: ! ecies recorded, Aspo	aris, Eucalyptus inci , Lasiopetalum behi 55 native species ar aragus asparagoide	rassata Mallee to Op rii and <i>Dampiera ros</i> nd 10 introduced sp s f. asparagoides (Br	pen Mallee over Smarinifolia ecies (Appendix 3). Fidal Creeper) and	
	Patches; Bushland Plant Dive	rsity Score – A1 = 3	0.			
	Assessment against Seriously at Variance Block A: (A1) Eucalype Eucalyptus incrassate Lasiopetalum behrii  At Variance — Not applicable.  Moderating factors Variance with the prinformation is derived diversity of a site relivence of the prince of the pri	etus diversifolia ssp.  a Mallee to Open Mand Dampiera rosm  that may be considerationing the consideration of the Bushlar ative to what would	lallee over Melaleud varinifolia ered by the NVC sidered in accordant	ce with the table be nod and is an indica	elow This	
		•	F			
		ies diversity score				
	<10 10 - 20		Not at variance			
	>20		At variance Seriously at variance			
	>20		Seriously at varia	nce		

Α1

14

1099.56

2.74

0.78

Vegetation remnancy data: NatureMaps 2025.

## Principle 1b significance as a habitat for wildlife

## Relevant information

### Nationally threatened fauna

Fourteen fauna species protected under the EPBC Act were identified by the PMST as potentially occurring or having suitable habitat within 5 km of the project area. This includes 13 bird species and one mammal species. Two of these species were listed as 'Species or species habitat known to occur in the area'. These were: Diamond Firetail (*Stagonopleura guttata*) (EPBC Act: Vulnerable, NPW Act: Vulnerable) and Sharp-tailed Sandpiper (*Calidris acuminata*) (EPBC Act: Vulnerable).

The Diamond Firetail was identified in the database search as being previously recorded within 5 km of the project area since 1995. The Diamond Firetail could possibly occur as there is suitable habitat within sections of the BAM A1. There are several Diamond Firetail records within a 25 km radius of the project area (NatureMaps 2025).

No threatened fauna species listed under the NPW Act were identified in the NatureMaps database search as being previously recorded within 5 km of the project area since 1995. No threatened fauna species were recorded during the field survey

Eight bird species, three mammal species and two reptile species were detected within the project area during the survey (Refer to table below). Two of the mammal species are introduced, these were: Rabbit (European Rabbit) (*Oryctolagus cuniculus*) and Fox (Red Fox) (*Vulpes vulpes*).

None of the fauna species recorded are listed as threatened under the EPBC Act or NPW Act.

#### Patches:

Threatened Fauna Score - Block A: (A1) = 0.08. Unit biodiversity Score - Block A: (A1) = 82.15.

## Assessment against the principles

### Seriously at Variance

<u>Block A: (A1)</u> Eucalyptus diversifolia ssp. diversifolia, Eucalyptus odorata, Eucalyptus peninsularis, Eucalyptus incrassata Mallee to Open Mallee over Melaleuca uncinata, Templetonia retusa, Lasiopetalum behrii and Dampiera rosmarinifolia.

#### At Variance -

## Not Applicable.

## Moderating factors that may be considered by the NVC

### Impact Significance

The following criteria are used to determine whether an action will have a significant impact on listed threatened fauna species and therefore clearance will be raised to 'Seriously at variance'. A clearance action will have or is likely to have a significant impact on a threatened species if it may:

- lead to a long-term decrease in the size of a population, or
- reduce the area of occupancy of the species, or
- fragment an existing population into two or more populations, or
- adversely affect habitat critical to the survival of a species, or
- modify, destroy, remove, isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline, or
- result in invasive species that are harmful to a threatened species becoming established in the threatened species habitat, or
- interfere with the recovery of the species.

If the NVC are of the opinion that the clearance will not have a significant impact on fauna habitat, the clearance may be reduced to 'At variance'.

### Significant benefit

If the SEB provides a benefit to the threatened species that is well over and above what is required in the SEB Policy and Guide, it may be reduced to 'At variance'. Common species If the vegetation provides habitat for native species that are relatively common, and the area of clearance is not considered essential habitat to maintain the local population, it may be reduced to 'At variance'. Non-essential habitat If the clearance is of non-essential habitat for threatened species and the clearance will have a negligible impact on that species local population over the long term (i.e., next 20 to 50 years), it may be reduced to 'At variance'. The proposed clearance of vegetation within Block A: (1A) is unlikely to have a significant impact on any EPBC Act or NPW Act listed threatened fauna species. This is based on the results of the desktop assessment and field survey. Principle 1b may be reduced from 'Seriously at variance' to 'At variance' if the NVC are of the opinion that the clearance will not have a significant impact on fauna habitat. Relevant information Principle 1c -Not applicable. plants of a rare, vulnerable or endangered species Assessment against the principles Seriously at Variance Not applicable. <u> At Variance</u> – Not applicable. Moderating factors that may be considered by the NVC Not applicable. Principle 1d -Relevant information the Not applicable. vegetation comprises the Assessment against the principles whole or Seriously at Variance part of a Not applicable. plant Moderating factors that may be considered by the NVC community Not applicable. that is Rare. Vulnerable or endangered: Relevant information Principle 1e it is The Project area is situated within the Eyre Yorke Block IBRA bioregion of SA, the Eyre Hill significant as subregion and the Cummins IBRA association. The Cummins IBRA association covers 37,086 ha, of which 1,374 ha or 4% contains vegetation. None of the vegetation within the Cummins IBRA a remnant of vegetation in association is protected (NatureMaps 2025). an area which Total Biodiversity Score - 67.68. has been Assessment against the principles extensively cleared. Seriously at Variance

<u>Block A: (A1)</u> Eucalyptus diversifolia ssp. diversifolia, Eucalyptus odorata, Eucalyptus peninsularis, Eucalyptus incrassata Mallee to Open Mallee over Melaleuca uncinata, Templetonia retusa, Lasiopetalum behrii and Dampiera rosmarinifolia.

<u>Block A: (A2)</u> \*Scabiosa atropurpurea Herbland +/- Dampiera rosmarinifolia, Austrostipa sp., Lasiopetalum behrii

#### At Variance

Not applicable.

## Moderating factors that may be considered by the NVC

When considering this principle, remnancy is considered at two levels as listed in the Table below.

	Hierarchy Level	Appropriateness
1	IBRA Association	Local
2	IBRA Sub-region	Sub-regional

The following criteria are used to determine whether a clearance proposal will have a significant impact on a remnant in a highly landscape and therefore clearance will be raised to 'Seriously at variance' with this principle. An action has, will have, or is likely to have a significant impact on a remnant in a highly cleared landscape if it does, will, or is likely to:

- Impact on a tree species or vegetation community that has been selectively removed within the IBRA Association or IBRA Subregion and are therefore underrepresented in the vegetation that remains.
- Impact on a remnant in relatively good condition, particularly if the vegetation within the IBRA Association or IBRA Subregion where vegetation has largely been degraded.

### Quality of remnant

If the vegetation is in poor to very poor condition, is continuing to degrade and its long term (next 20 to 50 years) persistence is unlikely, then it may be reduced to 'At variance'.

Neither of the two vegetation associations requiring clearance are listed as Threatened Ecological Communities under the EBPC Act, or under the Provisional List of Threatened Ecosystems of SA.

Principle 1f -
it is growing
in, or in
association
with, a
wetland
environment.

Relevant information Not applicable.

Assessment against the principles

Seriously at Variance Not applicable.

At Variance – Not applicable.

Moderating factors that may be considered by the NVC

Principle 1g it contributes
significantly
to the
amenity of
the area in
which it is

Relevant information *Not applicable.* 

N/A

Moderating factors that may be considered by the NVC

Not applicable.

|--|

# 4.6 Risk Assessment

Determine the level of risk associated with the application

Total	No. of trees	N/A
clearance	Area (ha)	1.55
	Total biodiversity Score	67.68
Seriously at v 1(b), 1(c) or 1	ariance with principle (d)	A1 is seriously at variance with principle 1(a), 1(b) and 1(e).  A2 is seriously at variance with principle 1(e).
Risk assessme	ent outcome	Level 4.

# 5. Clearance summary

# Clearance Area(s) Summary table

Block	Site	Native species diversity score	Threatened Ecological community Score	Threatened plant score	Threatened fauna score	UBS	Area (ha)	Total Biodiversity score	Loss factor	Loadings	Reductions	SEB Points required	SEB payment	Admin Fee
Α	A1	30	1	0	0.08	82.15	0.78	64.08	1.0			70.49	\$49,808.20	\$2,739.45
Α	A2	4	1	0	0	4.67	0.77	3.60	1.0			3.96	\$2,798.13	\$153.90
						Total	1.55	67.68				74.45	\$52,606.33	\$2,893.35

# Totals summary table

IBRA Association percent vegetation remnancy (%)	4.0
IBRA Subregion percent vegetation remnancy (%)	29.0
Is the vegetation associated with a Wetland	No
Economies of Scale Factor	0.50
Rainfall Factor (mm)	428
SEB Points of Gain/ha Factor	7.5

	Total Biodiversity score	Total SEB points required	SEB Payment	Admin Fee	Total Payment
Application	67.68	74.45	\$52,606.33	\$2,893.35	\$55,499.68

# 6. Significant Environmental Benefit

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

Indicate how the SEB will be achieved by ticking the appropriate box and providing the associated information:

#### **ACHIEVING A SEB**

☐ Establish a new SEB Area on land owned by the proponent. Provide information below.
Use SEB Credit that the proponent has established. Provide the SEB Credit Ref. No
Apply to have SEB Credit assigned from another person or body. The <u>application form</u> needs to be submitted with this Data Report.
Apply to have a SEB to be delivered by a Third Party. The <u>application form</u> needs to be submitted with this Data Report.

#### **PAYMENT SEB**

Pay into the Native Vegetation Fund.

The SEB Policy states that if a SEB is required as a result of an approved activity undertaken under the Regulations, the applicant has a choice of either providing an on-ground SEB or a Payment SEB. However, if a proposed clearance will have an offset obligation of greater than 150 SEB Points Required, the NVC will first request that a reasonable attempt be made to identify an on-ground SEB before a payment will be accepted.

The proponent is proposing to pay into the Native Vegetation Fund. The total payment required is **\$55,499.68** which includes an SEB payment of **\$52,606.33** and an administration fee of **\$2,893.35**.

# 7. Appendices

Appendix 1. Fauna Species List.

## Fauna assessment

Eight bird species, three mammal species and two reptile species were detected within the project area during the survey (Refer to table below). Two of the mammal species are introduced, these were: Rabbit (European Rabbit) (*Oryctolagus cuniculus*) and Fox (Red Fox) (*Vulpes vulpes*).

None of the fauna species recorded are listed as threatened under the EPBC Act or NPW Act.

Family name	Scientific name	Common name
AVES	Acanthagenys rufogularis	Spiny-cheeked Honeyeater
AVES	Barnardius zonarius	Australian Ringneck
AVES	Corvus bennetti	Little Crow
AVES	Cracticus torquatus leucopterus	Grey Butcherbird
AVES	Eolophus roseicapilla	Galah
AVES	Falco cenchroides cenchroides	Nankeen Kestrel
AVES	Malurus leucopterus leuconotus	White-winged Fairywren
AVES	Ocyphaps lophotes lophotes	Crested Pigeon
MAMMALIA	Macropus fuliginosus	Western Grey Kangaroo
MAMMALIA	*Oryctolagus cuniculus	Rabbit (European Rabbit)
MAMMALIA	*Vulpes vulpes	Fox (Red Fox)
REPTILIA	Cryptoblepharus sp.	
REPTILIA	Tiliqua rugosa	Sleepy Lizard

<sup>\* =</sup> Introduced species.

<b>-</b> 1			Mattia	
Block	A	ASSESSOR(S)	Matt Launer	
ize of Block (Ha)	10.9	(Insert Full Name/s)	0.004.0005	
andscapes Region	Eyre Peninsula	DATE OF ASSESSMENT	3/04/2025	
BCM Region	Eyre Peninsula			
BRA Association BRA Subregion	Cummins Eyre Hills	-		
Map of the Block	(Including the Sites)			
	1	Insert Map		
Landscape C	ontext Scores	% native veg. remaining in	A CONTRACTOR OF THE PARTY OF TH	4
Landscape C	ontext Scores	% native veg. remaining in	IBRA subregion	29
Landscape C	ontext Scores	% native veg. remaining in 0 - 10% = 0.05 pts; >10-20%	IBRA subregion = 0.04 pts; >20-30% = 0.0	29
Landscape C	ontext Scores	% native veg. remaining in 0 - 10% = 0.05 pts; >10-20% >30-60% = 0.02 pts; > 60 = 0	IBRA subregion	29 03 pts; 0.08
Landscape C	ontext Scores	% native veg. remaining in 0 - 10% = 0.05 pts; >10-20%	IBRA subregion	29 03 pts; 0.08
Percent Vegetation Cov	ver (5km radius) (%)	% native veg. remaining in 0 - 10% = 0.05 pts; >10-20% >30-60% = 0.02 pts; > 60 = 0 Score received for both IBRA as	IBRA subregion a = 0.04 pts; >20-30% = 0.00 b pts Score ssoc. and subregion then sum	29 03 pts; 0.08
Percent Vegetation Cov 0-5% = 0 pts; >5-10% =	ver (5km radius) (%) 14 = 0.02 pts; >10-25% = 0.04 pts;	% native veg. remaining in 0 - 10% = 0.05 pts; >10-20% >30-60% = 0.02 pts; > 60 = 0.05 pts in the score received for both IBRA as when the score received for th	IBRA subregion a = 0.04 pts; >20-30% = 0.00 b pts	29 03 pts; 0.08 med
Percent Vegetation Cov 0-5% = 0 pts; >5-10% =	ver (5km radius) (%) 14 = 0.02 pts; >10-25% = 0.04 pts; 50-75% = 0.03 pt; >75-100% = 0 pts	% native veg. remaining in 0 - 10% = 0.05 pts; >10-20% >30-60% = 0.02 pts; > 60 = 0 Score received for both IBRA as  % native veg. protected IBI 0-10% = 0.03 pts; >10-20%	IBRA subregion a = 0.04 pts; >20-30% = 0.00 b pts	29 03 pts; 0.08 med
Percent Vegetation Cov 0-5% = 0 pts; >5-10% =	ver (5km radius) (%) 14 = 0.02 pts; >10-25% = 0.04 pts;	% native veg. remaining in 0 - 10% = 0.05 pts; >10-20% >30-60% = 0.02 pts; > 60 = 0	IBRA subregion a = 0.04 pts; >20-30% = 0.00 b pts	29 03 pts; 0.08 med
Percent Vegetation Cov 0-5% = 0 pts; >5-10% = >25-50% = 0.06 pts; >5	ver (5km radius) (%) = 0.02 pts; >10-25% = 0.04 pts; 50-75% = 0.03 pt; >75-100% = 0 pts Score 0.04	% native veg. remaining in 0 - 10% = 0.05 pts; >10-20% >30-60% = 0.02 pts; > 60 = 0.05 pts   20 pts; > 60 = 0.05 pts; > 10-20%   20 pts; > 10-20	BRA subregion	29 03 pts; 0.08 med 0
Percent Vegetation Cov 0-5% = 0 pts; >5-10% = >25-50% = 0.06 pts; >5	ver (5km radius) (%) = 0.02 pts; >10-25% = 0.04 pts; 50-75% = 0.03 pt; >75-100% = 0 pts Score 0.04	% native veg. remaining in 0 - 10% = 0.05 pts; >10-20% >30-60% = 0.02 pts; > 60 = 0 Score received for both IBRA as  % native veg. protected IBI 0-10% = 0.03 pts; >10-20% >40% = 0  Wetland or Riparian Habita	BRA subregion	29 03 pts; 0.08 med 0
Percent Vegetation Cov 0-5% = 0 pts; >5-10% = >25-50% = 0.06 pts; >5	ver (5km radius) (%) 14 = 0.02 pts; >10-25% = 0.04 pts; 50-75% = 0.03 pt; >75-100% = 0 pts Score 0.04 erimeter:Area (km/km2)	% native veg. remaining in 0 - 10% = 0.05 pts; >10-20% >30-60% = 0.02 pts; > 60 = 0 Score received for both IBRA as  % native veg. protected IBI 0-10% = 0.03 pts; >10-20% >40% = 0  Wetland or Riparian Habita Riparian zone present (Yes/I	BRA subregion	29 03 pts; 0.08 med 0
Percent Vegetation Cov 0-5% = 0 pts; >5-10% = >25-50% = 0.06 pts; >5 Block Shape Cleared per Cleared Perimeter (m) =	ver (5km radius) (%) 14 = 0.02 pts; >10-25% = 0.04 pts; 50-75% = 0.03 pt; >75-100% = 0 pts Score 0.04 erimeter:Area (km/km2) 4016	% native veg. remaining in 0 - 10% = 0.05 pts; >10-20% >30-60% = 0.02 pts; > 60 = 0 Score received for both IBRA as  % native veg. protected IBF 0-10% = 0.03 pts; >10-20% >40% = 0  Wetland or Riparian Habita Riparian zone present (Yes/N Swamp/wetland present (Yes/N	BRA subregion	29 03 pts; 0.08 med 0 01 pt; 0.03
Percent Vegetation Cov 0-5% = 0 pts; >5-10% = >25-50% = 0.06 pts; >5 Block Shape Cleared percent of the control of the cont	ver (5km radius) (%) 14 = 0.02 pts; >10-25% = 0.04 pts; 50-75% = 0.03 pt; >75-100% = 0 pts Score 0.04 erimeter:Area (km/km2) 4016	% native veg. remaining in 0 - 10% = 0.05 pts; >10-20% >30-60% = 0.02 pts; > 60 = 0 Score received for both IBRA as  % native veg. protected IBF 0-10% = 0.03 pts; >10-20% >40% = 0  Wetland or Riparian Habita Riparian zone present (Yes/N	BRA subregion	29 03 pts; 0.08 med 0 01 pt; 0.03
Percent Vegetation Cov 0-5% = 0 pts; >5-10% = >25-50% = 0.06 pts; >5 Block Shape Cleared percent of the company of the comp	ver (5km radius) (%) 14 = 0.02 pts; >10-25% = 0.04 pts; 50-75% = 0.03 pt; >75-100% = 0 pts Score 0.04 erimeter:Area (km/km2) = 4016 36.84	% native veg. remaining in 0 - 10% = 0.05 pts; >10-20% >30-60% = 0.02 pts; > 60 = 0 Score received for both IBRA as  % native veg. protected IBF 0-10% = 0.03 pts; >10-20% >40% = 0  Wetland or Riparian Habita Riparian zone present (Yes/N Swamp/wetland present (Yes/N	BRA subregion	29 03 pts; 0.08 med 0 01 pt; 0.03

Plant Species Recorded (Native and Intro	Jaucea)	Listed	J Spe	Charles and the contract of th	INA	tives only Annual Herb
Species	Common Name	EPBC	SA	Not in quadrat	Regen	Spring survey
Allocasuarina verticillata	Drooping Sheoak	EFBC	SA	quadrat	Regen	Opring Survey
Enchylaena tomentosa var. tomentosa	Ruby Saltbush	+			Yes	
Senecio pterophorus	African Daisy				163	
Callitris gracilis	Southern Cypress Pine	1			Yes	
Gahnia deusta	Limestone Saw-sedge				165	
Lepidosperma carphoides						
Lepidosperma viscidum	Black Rapier-sedge	1				
	Sticky Sword-sedge				Van	
Dampiera rosmarinifolia Avena barbata	Rosemary Dampiera				Yes	
	Bearded Oat	+				
Austrostina en	Feather Spear-grass					
Austrostipa sp.	Spear-grass	-				
Enneapogon nigricans	Black-head Grass					
Rytidosperma sp.	Wallaby-grass					
Salvia verbenaca var.	Wild Sage	-				
Acacia calamifolia	Wallowa					
Acacia microcarpa	Manna Wattle	-			Yes	
Acacia myrtifolia	Myrtle Wattle				Yes	
Acacia pycnantha	Golden Wattle	_				
Acacia spinescens	Spiny Wattle					
Acacia longifolia ssp. longifolia	Sallow Wattle					
Piptatherum miliaceum	Rice Millet					
Trifolium arvense var. arvense	Hare's-foot Clover					
Eremophila behriana	Rough Emubush					
Eucalyptus odorata	Peppermint Box					
Daviesia asperula ssp.	Bitter-pea					
Templetonia retusa	Cockies Tongue				Yes	
Asparagus asparagoides f.	Bridal Creeper					Ž-
Dianella revoluta var.						
Lomandra collina	Sand Mat-rush					
Calytrix involucrata	Cup Fringe-myrtle				Yes	
Eucalyptus diversifolia ssp. diversifolia	Coastal White Mallee				Yes	
Eucalyptus gracilis	Yorrell	- 1				
Eucalyptus incrassata	Ridge-fruited Mallee					-
Eucalyptus peninsularis	Merrit				Yes	
Eucalyptus petiolaris	Eyre Peninsula Blue Gum					
Melaleuca lanceolata	Dryland Tea-tree					
Melaleuca decussata	Totem-poles				Yes	
Melaleuca uncinata	Broombush				Yes	
Pinus halepensis	Aleppo Pine					
Pittosporum angustifolium	Native Apricot				Yes	
Adenanthos terminalis	Yellow Gland-flower				100	
Grevillea ilicifolia ssp. ilicifolia	Holly-leaf Grevillea					
Hakea cycloptera	Elm-seed Hakea					
Clematis microphylla	Old Man's Beard	1				
Correa backhouseana var. coriacea	Thick-leaf Correa				Yes	
Exocarpos sparteus	The second secon	1			165	
Dodonaea hexandra	Slender Cherry	1				
	Horned Hop-bush				Yes	
Lasiopetalum baueri	Slender Velvet-bush				165	
Pimelea flava ssp. dichotoma	Diosma Riceflower					
Callistemon rugulosus	Scarlet Bottlebrush					
Rhagodia crassifolia	Fleshy Saltbush				/	
Gahnia filum	Thatching Grass					
Cassytha sp.	Dodder-laurel					
Threlkeldia diffusa	Coast Bonefruit		-			
Eutaxia microphylla	Common Eutaxia					

Olearia ramulosa	Twiggy Daisy-bush		
Santalum acuminatum	Quandong		Yes
Allocasuarina muelleriana ssp.	Common Oak-bush		163
Halgania cyanea			
	Rough Blue-flower		
Beyeria lechenaultii	Pale Turpentine Bush		
Acacia sclerophylla var. sclerophylla	Hard-leaf Wattle		
Acacia ligulata	Umbrella Bush		
Billardiera sericophora	Silky Apple-berry		
Dactylis glomerata	Cocksfoot		
Sixalix atropurpurea	Pincushion		
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Threatened or Introduced Fauna S (Native and Introduced)	pecies Recorded or Observed	Threat Specie				Introduced
Species	Common Name	EPBC	SA	Past Record	Observed	Species
Stagonopleura guttata	▼ Diamond Firetail	VU	V	Yes		- P
Macropus fuliginosus	Western Grey Kangaroo	,,,			Yes	
Oryctolagus cuniculus	Rabbit (European Rabbit)				Yes	*
Vulpes vulpes	Fox (Red Fox)				Yes	*
Ocyphaps lophotes lophotes						
	Crested Pigeon	-			Yes	
Corvus bennetti	Little Crow				Yes	
Acanthagenys rufogularis	Spiny-cheeked Honeyeater				Yes	
Tiliqua rugosa	Sleepy Lizard				Yes	
Cracticus torquatus leucopterus	Grey Butcherbird				Yes	
Barnardius zonarius	Australian Ringneck				Yes	
Cryptoblepharus sp.					Yes	
Anthochaera carunculata	Red Wattlebird				Yes	
Malurus cyaneus	Superb Fairywren				Yes	ji .
Falco cenchroides cenchroides	Nankeen Kestrel				Yes	
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	No.					
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Vegetation Condition Scores	l A d				
	7.00	A1			
BCM COMMUNITY		EP 8.1 Mallee & Low Woodlands with Open Sclerophyll Shru Chenopod Understorey			
VEGETATION ASSOCIATION DESCRIPTION	Eucalypt	us diversifolia ss	p. diversifoli	a, Eucalyptus odorata,	Eucalyp
SIZE OF SITE (Ha)	0.78				
Benchmarked attributes				Native Plant	Cover
(Scores determined by comparing to a Benchm	ark communi	ity)		Life Forms	rating
(cooles determined by companing to a Benomin	and communi	(y)		Trees > 15m	rating
Number of Native Species (Minus herbaceous ann	nuals for spring	Surveys)	55	Trees 5 - 15 m	
Native Plant Species Diversity Score (max 30) from be			- 00	Trees < 5m	
weighted by a factor of 2			30.0	Mallee > 5m	
N. Maria (1871 - 1971 -			00.0	Mallee < 5m	
Number of regenerating native species			15	Shrubs > 2m	
Regeneration Score (max 12) from benchmark commu	inity weighted b	ov a factor of 1.5	10	Shrubs 0.5 - 2m	
( = ,	, noighted a	, a lactor or 1.0	12	Shrubs <0.5m	
			,	Forbs	
Weed species	Cover	Weed Threat	CxI	Mat Plants	
(Top 5 Cover x Invasiveness)	(max 6)	Rating (max 5)	Y 777	Grasses > 0.2m	
Senecio pterophorus	1	3	3	Grasses < 0.2m	
Acacia longifolia ssp. longifolia	2	3	6	Sedges > 1m	
Pinus halepensis	1	3	3	Sedges < 1m	
Sixalix atropurpurea	2	2	4	Hummock grasses	
Avena barbata	1	2	2	Vines, scramblers	
	Cover x	Threat	18	Mistletoe	
Weed Score (max 15) from benchmark community			7	Ferns	
				Grass-tree	
				Grass-tree Total	
Native Plant Life Forms (max 20) from benchmark sc	ore weighted by	a factor of 2			
	ore weighted by			Total	
Non-Benchmarked Attributes		Is the com	The second second second	Total  ally treeless?	20
Non-Benchmarked Attributes (Scores determined from direct field observation	ns)	Is the comi	ber/Debris	Total  ally treeless? (max 5)	3
Non-Benchmarked Attributes (Scores determined from direct field observation	ns)	Is the come Fallen Tim Hollow-be	ber/Debris aring trees	Total  ally treeless? (max 5) Score (max 5)	3 1
Non-Benchmarked Attributes (Scores determined from direct field observation	ns)	Is the comi Fallen Tim Hollow-be Mature Tre	ber/Debris aring trees ee Score (m	Total  ally treeless? (max 5) Score (max 5) ax 8)	3 1 8
Non-Benchmarked Attributes (Scores determined from direct field observation	ns)	Is the comi Fallen Tim Hollow-be Mature Tre	ber/Debris aring trees ee Score (m	Total  ally treeless? (max 5) Score (max 5)	3 1
Native Plant Life Forms (max 20) from benchmark so  Non-Benchmarked Attributes (Scores determined from direct field observation Native:exotic Understorey biomass Score (max second condition Score calculation)	ns)	Is the comi Fallen Tim Hollow-be Mature Tre	ber/Debris aring trees ee Score (m	Total  ally treeless? (max 5) Score (max 5) ax 8)	3 3 1 8
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max section) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native spe	ns) 5) 5	Is the come Fallen Tim Hollow-be Mature Tre Tree Cano	ber/Debris aring trees ee Score (m py Cover So	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)	3 1 8
Non-Benchmarked Attributes (Scores determined from direct field observation Native:exotic Understorey biomass Score (max section) Vegetation Condition Score calculation	ns) 5) 5	Is the come Fallen Tim Hollow-be Mature Tre Tree Cano	ber/Debris aring trees ee Score (m py Cover So	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)	3 3 1 8
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max section) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native spe	ns) 5) 5 ecies diversity	Is the coming Fallen Time Hollow-be Mature Tree Cano	ber/Debris aring trees ee Score (m py Cover So + Native Pla	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms	3 3 1 8
Non-Benchmarked Attributes (Scores determined from direct field observation Native:exotic Understorey biomass Score (max second condition Score calculation Positive Vegetation Attributes Score = Native speciallen timber/debris + Hollow-bearing trees	ns)  5) 5 ecies diversity  B) for regenera	Is the coming Fallen Time Hollow-be Mature Tree Cano	ber/Debris aring trees ee Score (m py Cover So + Native Pla	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms	3 3 1 1 8 8 4
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max state) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native speciallen timber/debris + Hollow-bearing trees - If the community Score is Not Benchmarked (SNI If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds)	ecies diversity  B) for regenerate plied by 1.29  c) + ((10 - Bion	Is the compared to the compare	ber/Debris aring trees ee Score (m py Cover Sc + Native Pla s multiplied 1	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  Int Life Forms  1.24  over Score)exp2/2)	3 3 1 8 4
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max state) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native speciallen timber/debris + Hollow-bearing trees - If the community Score is Not Benchmarked (SNI If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds)	ecies diversity  B) for regenerate plied by 1.29  c) + ((10 - Bion	Is the compared to the compare	ber/Debris aring trees ee Score (m py Cover Sc + Native Pla s multiplied 1	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  Int Life Forms  1.24  over Score)exp2/2)	74.0 8.50
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max state) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native speciallen timber/debris + Hollow-bearing trees - If the community Score is Not Benchmarked (SNI) - If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg as the score is set to the score of the scor	ecies diversity  B) for regenerate plied by 1.29  c) + ((10 - Bion	Is the compared to the compare	ber/Debris aring trees ee Score (m py Cover Sc + Native Pla s multiplied 1	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  Int Life Forms  I.24  over Score)exp2/2) utes) / 80))	74.0 8.5
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max section) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specified in the section of the community Score is Not Benchmarked (SNI) - If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg as L.)	ecies diversity  B) for regenerate by 1.29 b) + ((10 - Bionattributes x ((80)	Is the comparison of the compa	ber/Debris aring trees ee Score (m py Cover Sc + Native Pla s multiplied 1	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  Int Life Forms  1.24  over Score)exp2/2)	74.0 8.5
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max section) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specified in the community Score is Not Benchmarked (SNIII) - If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg as Native Plant Species Diversity)	ecies diversity  B) for regenerate by 1.29 b) + ((10 - Bionattributes x ((80)	Is the comparison of the compa	ber/Debris aring trees ee Score (m py Cover Sc + Native Pla s multiplied 1	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  Int Life Forms  I.24  over Score)exp2/2) utes) / 80))	74.0 8.5
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max section) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specified in the section of the community Score is Not Benchmarked (SNI) - If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg as L.)	ecies diversity  B) for regenerate by 1.29 b) + ((10 - Bionattributes x ((80)	Is the comparison of the compa	ber/Debris aring trees ee Score (m py Cover Sc + Native Pla s multiplied 1	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  Int Life Forms  I.24  over Score)exp2/2) utes) / 80))	74.0 8.5
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max state) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specially from the community Score is Not Benchmarked (SNI-If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg as Native Plant Species Diversity	ecies diversity  B) for regenerate by 1.29 b) + ((10 - Bionattributes x ((80)	Is the comparison of the compa	ber/Debris aring trees ee Score (m py Cover Sc + Native Pla s multiplied 1	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  Int Life Forms  I.24  over Score)exp2/2) utes) / 80))	74.0 8.5
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max section) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specified in the section of the community Score is Not Benchmarked (SNI) - If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg as Native Plant Species Diversity Weed Score	ecies diversity  B) for regenerate by 1.29 b) + ((10 - Bionattributes x ((80)	Is the comparison of the compa	ber/Debris aring trees ee Score (m py Cover Sc + Native Pla s multiplied 1	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  Int Life Forms  I.24  over Score)exp2/2) utes) / 80))	74.0 8.5
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max section) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specifies + Hollow-bearing trees - If the community Score is Not Benchmarked (SN If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg as Native Plant Species Diversity)  Weed Score Native Plant Life Forms Regeneration	ecies diversity  B) for regenerate by 1.29 b) + ((10 - Bionattributes x ((80)	Is the comparison of the compa	ber/Debris aring trees ee Score (m py Cover Sc + Native Pla s multiplied 1	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  Int Life Forms  I.24  over Score)exp2/2) utes) / 80))	74.0 8.5
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max section) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specified in the section of the community Score is Not Benchmarked (SN) - If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg as Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass	ecies diversity  B) for regenerate by 1.29 b) + ((10 - Bionattributes x ((80)	Is the comparison of the compa	ber/Debris aring trees ee Score (m py Cover Sc + Native Pla s multiplied 1	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  Int Life Forms  I.24  over Score)exp2/2) utes) / 80))	74.0 8.5
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max section) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specially special	ecies diversity  B) for regenerate by 1.29 b) + ((10 - Bionattributes x ((80)	Is the comparison of the compa	ber/Debris aring trees ee Score (m py Cover Sc + Native Pla s multiplied 1	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  Int Life Forms  I.24  over Score)exp2/2) utes) / 80))	74.0 8.5
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max section) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specified in the section of the community Score is Not Benchmarked (SN) - If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg as Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass	ecies diversity  B) for regenerate by 1.29 b) + ((10 - Bionattributes x ((80)	Is the comparison of the compa	ber/Debris aring trees ee Score (m py Cover Sc + Native Pla s multiplied 1	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  Int Life Forms  I.24  over Score)exp2/2) utes) / 80))	74.0 8.5
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max section) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specially special	ecies diversity  B) for regenerate by 1.29 b) + ((10 - Bionattributes x ((80)	Is the comparison of the compa	ber/Debris aring trees ee Score (m py Cover Sc + Native Pla s multiplied 1	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  Int Life Forms  I.24  over Score)exp2/2) utes) / 80))	74.0 8.50
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max second condition) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specially from the second condition	ecies diversity  B) for regenerate by 1.29 b) + ((10 - Bionattributes x ((80)	Is the comparison of the compa	ber/Debris aring trees ee Score (m py Cover Sc + Native Pla s multiplied 1	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  Int Life Forms  I.24  over Score)exp2/2) utes) / 80))	74.0 8.50
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max section) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specially from the section of the community section in the community Score is Not Benchmarked (SNI) If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg at Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Mature Trees  Tree Canopy Cover Tree Hollows	ecies diversity  B) for regenerate by 1.29 b) + ((10 - Bionattributes x ((80)	Is the comparison of the compa	ber/Debris aring trees ee Score (m py Cover Sc + Native Pla s multiplied 1	Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  Int Life Forms  I.24  over Score)exp2/2) utes) / 80))	3 3 1 8

Conservation Significance Score		Ve-M
Is the vegetation association considered a Threatened Ecolog		Yes/No
State (Provisional List of Threatened Ecosystems of SA) Ra		
State (Provisional List of Threatened Ecosystems of SA) Vu	[2] [2] [2] [2] [2] [2] [2] [2] [2] [2]	
State (Provisional List of Threatened Ecosystems of SA) En	ndangered community (0.3 pts)	
Nationally (EPBC Act) Vulnerable community (0.35 pts)		
Nationally (EPBC Act) Endangered or Critically Endanger		
Note; all sites will score a minimum Conservation Significance Scor	re of 1 Threatened Community Score	
Number of Threatened Flora Species recorded for the si		Number
*If a species has both a State (NP&W Act) and National (EF	PBC Act) rating, it's only recorded for its National rating.	
State Rare species recorded (1 pt each)		
State Vulnerable species recorded (2.5 pt each)		(
State Endangered recorded (5 pts each)		10
Nationally Vulnerable species recorded (10 pts each)		(
Nationally Endangered or Critically endangered species r		
0 = 0 pts; <2 = 0.04 pts; 2 - <5 = 0.08 p	ots; 5 - <10 = 0.12 pts; 10 - <20 = 0.16 pts; 20 or > = 0.2 pts	(
Potential habitat for Threatened Fauna Species (number		Number
*If a species has both a State (NP&W Act) and National (EF		
State Rare species observed or locally recorded (1 pt each)		0
State Vulnerable species observed or locally recorded (2.5		(
State Endangered species observed or locally recorded (5		(
Nationally Vulnerable species observed or locally recorded		
Nationally Endangered or Critically endangered species of		(
0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts	pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 or > = 0.1 pts  Threatened Fauna Score	0.08
CONSERVATION SIGNIFICANCE SCORE		1.08
	V-1-E-0-3E-1-1-10-1-1	
Total Scores for the Site	Vegetation Condition x Landscape Context x	
Score 1445	Conservation Significance =	00.4
LANDSCAPE CONTEXT SCORE 1.15	UNIT BIODIVERSITY SCORE	82.1
VEGETATION CONDITION SCORE 66.14	The state of the s	C4 00
CONSERVATION SIGNIFICANCE SCORE 1.08	(Biodiversity Score x hectares)	64.08
Photo Point and Vegetation Survey Location	Direction of the Photo	
DIRECTION 53H 554636	ACCURACY 2 m North-west	
NW (T) 6216990	DATUM GDAZ020  GPS Reference	
	Datum (	SDA20
	Zone (52, 53 or 54) 5	
	Easting (6 digits) 5	
	Northing (7 digits) 6	216990
	Description	
<b>人工工作</b>		
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	3/4/2025	

Block	A	ASSESSOR(S)	Matt Launer	
Size of Block (Ha)	10.9	(Insert Full Name/s)		
andscapes Region	Eyre Peninsula	DATE OF ASSESSMEN	NT 3/04/2025	
3CM Region	Eyre Peninsula			
BRA Association	Cummins			
BRA Subregion	Eyre Hills			
Map of the Block	(Including the Sites)			
		Insert Map		
Landscane C	ontext Scores	% native veg. remaining i	in IBRA Assoc.	4
Landscape C	ontext Scores	% native veg. remaining i	in IBRA subregion	29
Landscape C	ontext Scores	% native veg. remaining i 0 - 10% = 0.05 pts; >10-20	in IBRA subregion % = 0.04 pts; >20-30% = 0	29
Landscape C	ontext Scores	% native veg. remaining i 0 - 10% = 0.05 pts; >10-20 >30-60% = 0.02 pts; > 60 =	in IBRA subregion  % = 0.04 pts; >20-30% = 0 = 0 pts Score	29 0.03 pts; 0.08
		% native veg. remaining i 0 - 10% = 0.05 pts; >10-20	in IBRA subregion  % = 0.04 pts; >20-30% = 0 = 0 pts Score	29 0.03 pts; 0.08
Percent Vegetation Cov	ver (5km radius) (%)	% native veg. remaining i 0 - 10% = 0.05 pts; >10-20 >30-60% = 0.02 pts; > 60 = Score received for both IBRA	in IBRA subregion  % = 0.04 pts; >20-30% = 0  = 0 pts Score  assoc. and subregion then sur	29 0.03 pts; 0.08 mmed
Percent Vegetation Cov 0-5% = 0 pts; >5-10% =	ver (5km radius) (%) 14 = 0.02 pts; >10-25% = 0.04 pts;	% native veg. remaining i 0 - 10% = 0.05 pts; >10-20 >30-60% = 0.02 pts; > 60 = Score received for both IBRA  % native veg. protected II	in IBRA subregion  1% = 0.04 pts; >20-30% = 0  1	29 0.03 pts; 0.08 mmed
Percent Vegetation Cov 0-5% = 0 pts; >5-10% =	ver (5km radius) (%) 14 = 0.02 pts; >10-25% = 0.04 pts; 50-75% = 0.03 pt; >75-100% = 0 pts	% native veg. remaining i 0 - 10% = 0.05 pts; >10-20 >30-60% = 0.02 pts; > 60 = Score received for both IBRA  % native veg. protected II 0-10% = 0.03 pts; >10-209	in IBRA subregion  % = 0.04 pts; >20-30% = 0 = 0 pts	29 0.03 pts; 0.08 mmed 0
Percent Vegetation Cov 0-5% = 0 pts; >5-10% =	ver (5km radius) (%) 14 = 0.02 pts; >10-25% = 0.04 pts;	% native veg. remaining i 0 - 10% = 0.05 pts; >10-20 >30-60% = 0.02 pts; > 60 = Score received for both IBRA  % native veg. protected II 0-10% = 0.03 pts; >10-209	in IBRA subregion  1% = 0.04 pts; >20-30% = 0  1	29 0.03 pts; 0.08 mmed 0
Percent Vegetation Cov 0-5% = 0 pts; >5-10% = >25-50% = 0.06 pts; >5	ver (5km radius) (%) 14 = 0.02 pts; >10-25% = 0.04 pts; 50-75% = 0.03 pt; >75-100% = 0 pts Score 0.04	% native veg. remaining i 0 - 10% = 0.05 pts; >10-20 >30-60% = 0.02 pts; > 60 = Score received for both IBRA  % native veg. protected II 0-10% = 0.03 pts; >10-209 >40% = 0	in IBRA subregion  % = 0.04 pts; >20-30% = 0 = 0 pts	29 0.03 pts; 0.08 mmed 0
Percent Vegetation Cov 0-5% = 0 pts; >5-10% = >25-50% = 0.06 pts; >5 Block Shape Cleared pe	ver (5km radius) (%) 14 = 0.02 pts; >10-25% = 0.04 pts; 50-75% = 0.03 pt; >75-100% = 0 pts Score 0.04 erimeter:Area (km/km2)	% native veg. remaining i 0 - 10% = 0.05 pts; >10-20 >30-60% = 0.02 pts; > 60 = Score received for both IBRA  % native veg. protected II 0-10% = 0.03 pts; >10-206 >40% = 0  Wetland or Riparian Habi	in IBRA subregion   % = 0.04 pts; >20-30% = 0  = 0 pts	29 0.03 pts; 0.08 mmed
Percent Vegetation Cov 0-5% = 0 pts; >5-10% = >25-50% = 0.06 pts; >5 Block Shape Cleared percent of the company of the comp	ver (5km radius) (%) 14 = 0.02 pts; >10-25% = 0.04 pts; 50-75% = 0.03 pt; >75-100% = 0 pts Score 0.04 erimeter:Area (km/km2) 4016	% native veg. remaining i 0 - 10% = 0.05 pts; >10-20 >30-60% = 0.02 pts; > 60 = Score received for both IBRA  % native veg. protected II 0-10% = 0.03 pts; >10-209 >40% = 0  Wetland or Riparian Habi	in IBRA subregion  % = 0.04 pts; >20-30% = 0 = 0 pts	29 0.03 pts; 0.08 mmed 0 .01 pt; 0.03
Percent Vegetation Cov 0-5% = 0 pts; >5-10% = >25-50% = 0.06 pts; >5 Block Shape Cleared pe Cleared Perimeter (m) =	ver (5km radius) (%) 14 = 0.02 pts; >10-25% = 0.04 pts; 50-75% = 0.03 pt; >75-100% = 0 pts Score 0.04 erimeter:Area (km/km2) 4016	% native veg. remaining i 0 - 10% = 0.05 pts; >10-20 >30-60% = 0.02 pts; > 60 = Score received for both IBRA  % native veg. protected II 0-10% = 0.03 pts; >10-209 >40% = 0  Wetland or Riparian Habi	in IBRA subregion  % = 0.04 pts; >20-30% = 0 = 0 pts	29 0.03 pts; 0.08 mmed 0 .01 pt; 0.03
Percent Vegetation Cov 0-5% = 0 pts; >5-10% = >25-50% = 0.06 pts; >5 Block Shape Cleared percent of the company of the comp	ver (5km radius) (%) 14 = 0.02 pts; >10-25% = 0.04 pts; 50-75% = 0.03 pt; >75-100% = 0 pts Score 0.04 erimeter:Area (km/km2) 4016 ea ratio 36.84	% native veg. remaining i 0 - 10% = 0.05 pts; >10-20 >30-60% = 0.02 pts; > 60 = Score received for both IBRA  % native veg. protected II 0-10% = 0.03 pts; >10-209 >40% = 0  Wetland or Riparian Habi Riparian zone present (Yes Swamp/wetland present (Yes	in IBRA subregion  % = 0.04 pts; >20-30% = 0 = 0 pts	29 0.03 pts; 0.08 mmed 0 .01 pt; 0.03

ant Species Recorded (Native and I	ntroduced)	Liste	Spe	cies	Na	tives only
ecies	Samuel Comment			Not in		Annual Herb
	Common Name	EPBC	SA	quadrat	Regen	Spring survey
Dittrichia graveolens	Stinkweed	100				
actuca serriola f.	Prickly Lettuce					
enecio pterophorus	African Daisy					
rassica tournefortii	Wild Turnip		-			
ixalix atropurpurea	Pincushion					
ampiera rosmarinifolia	Rosemary Dampiera				Yes	
vena barbata	Bearded Oat			()		
ustrostipa sp.	Spear-grass					
nneapogon nigricans	Black-head Grass					
ytidosperma sp.	Wallaby-grass					
alvia verbenaca var. verbenaca	Wild Sage					
cacia longifolia ssp. longifolia	Sallow Wattle					
iptatherum miliaceum	Rice Millet	7				
iplotaxis tenuifolia	Lincoln Weed					
sphodelus fistulosus	Onion Weed				×	-
rigeron bonariensis	Flax-leaf Fleabane					
rifolium arvense var. arvense	Hare's-foot Clover					
monani di vondo van di vondo	Tiale 3-100t Clovel					
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Threatened or Introduced Fauna Species Recorded or Observed Native and Introduced)		Threat	ened		Introduced	
Species	Common Name	Specie EPBC	SA	Past Record	Observed	Species
Oryctolagus cuniculus	Rabbit (European Rabbit)				Yes	*
Vulpes vulpes	Fox (Red Fox)				Yes	*
vuipes vuipes	Fox (Red Fox)				res	
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SITE:	A2					
BCM COMMUNITY	EP 8.1	EP 8.1 Mallee & Low Woodlands with Open Sclerophyll Shrub & Chenopod Understorey				
VEGETATION ASSOCIATION DESCRIPTION	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	The second secon	*Asphodelus	fistulosus Herbland +/	- Dampie	
SIZE OF SITE (Ha)	0.78					
	1					
Benchmarked attributes	72.00			Native Plant	Cover	
(Scores determined by comparing to a Benchm	ark communi	ity)		Life Forms	rating	
				Trees > 15m		
Number of Native Species (Minus herbaceous ann	nuals for spring	g Surveys)	4	Trees 5 - 15 m		
Native Plant Species Diversity Score (max 30) from be	nchmark score	•		Trees < 5m		
weighted by a factor of 2			4.0	Mallee > 5m		
				Mallee < 5m		
Number of regenerating native species			1	Shrubs > 2m		
Regeneration Score (max 12) from benchmark commu	inity weighted b	by a factor of 1.5		Shrubs 0.5 - 2m		
			3	Shrubs <0.5m		
Weed species	Cover	Weed Threat	Cxl	Forbs Mat Plants		
(Top 5 Cover x Invasiveness)	(max 6)	Rating (max 5)	O X 1	Grasses > 0.2m		
Sixalix atropurpurea	4	2	8	Grasses < 0.2m		
Senecio pterophorus	2	3	6	Sedges > 1m		
Diplotaxis tenuifolia	1	_	2	Sedges < 1m		
Trifolium sp.	2		4	Hummock grasses		
Dittrichia graveolens	2		4	Vines, scramblers		
	Cover x	Threat	24	Mistletoe		
Weed Score (max 15) from benchmark community			5	Ferns		
Weed Score (max 15) from benchmark community			5	Grass-tree		
		5.460	5			
	ore weighted by	/ a factor of 2	5	Grass-tree	4	
Native Plant Life Forms (max 20) from benchmark sc	ore weighted by			Grass-tree Total	4	
Native Plant Life Forms (max 20) from benchmark so Non-Benchmarked Attributes		Is the com	munity natur	Grass-tree Total ally treeless?		
Native Plant Life Forms (max 20) from benchmark so Non-Benchmarked Attributes (Scores determined from direct field observation	ns)	Is the com	munity natur ber/Debris	Grass-tree Total  ally treeless? (max 5)	0	
Native Plant Life Forms (max 20) from benchmark some Non-Benchmarked Attributes (Scores determined from direct field observation Native:exotic Understorey biomass Score (max 9)	ns)	Is the community Fallen Tim	munity natur ber/Debris aring trees	Grass-tree Total  ally treeless? (max 5) Score (max 5)	0 0	
Native Plant Life Forms (max 20) from benchmark so Non-Benchmarked Attributes (Scores determined from direct field observation	ns)	Is the community Fallen Time Hollow-be Mature Tre	munity natur ber/Debris aring trees ee Score (m	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8)	0 0	
Native Plant Life Forms (max 20) from benchmark so Non-Benchmarked Attributes (Scores determined from direct field observation	ns)	Is the community Fallen Time Hollow-be Mature Tre	munity natur ber/Debris aring trees ee Score (m	Grass-tree Total  ally treeless? (max 5) Score (max 5)	0	
Native Plant Life Forms (max 20) from benchmark so Non-Benchmarked Attributes (Scores determined from direct field observation Native:exotic Understorey biomass Score (max 8)	ns)	Is the community Fallen Time Hollow-be Mature Tre	munity natur ber/Debris aring trees ee Score (m	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8)	0 0	
Native Plant Life Forms (max 20) from benchmark some Non-Benchmarked Attributes (Scores determined from direct field observation Native:exotic Understorey biomass Score (max 9) Vegetation Condition Score calculation	ns) 5) 1	Is the comp Fallen Tim Hollow-be Mature Tre Tree Cano	munity natur ber/Debris aring trees se Score (m py Cover S	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)	0 0	
Native Plant Life Forms (max 20) from benchmark some Non-Benchmarked Attributes (Scores determined from direct field observation Native:exotic Understorey biomass Score (max section Condition Score calculation	ns) 5) 1	Is the comp Fallen Tim Hollow-be Mature Tre Tree Cano	munity natur ber/Debris aring trees se Score (m py Cover S	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)	0 0	
Native Plant Life Forms (max 20) from benchmark so  Non-Benchmarked Attributes (Scores determined from direct field observation Native:exotic Understorey biomass Score (max 8)  Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native speriallen timber/debris + Hollow-bearing trees	ns)  5) 1 ecies diversity	Is the coming Fallen Time Hollow-bee Mature Tree Cano	munity natur ber/Debris aring trees ee Score (m py Cover So + Native Pla	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms	0 0	
Native Plant Life Forms (max 20) from benchmark some Non-Benchmarked Attributes (Scores determined from direct field observation Native:exotic Understorey biomass Score (max Section Condition Score calculation Positive Vegetation Attributes Score = Native specific processes (max Section Condition Condition Score = Native specific processes (max Section Condition Con	ns)  5) 1  ecies diversity  B) for regenera	Is the coming Fallen Time Hollow-bee Mature Tree Cano	munity natur ber/Debris aring trees ee Score (m py Cover So + Native Pla	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms	0 0 0 0	
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max second to the second	ecies diversity  B) for regenerate plied by 1.29  c) + ((10 - Bion	Is the compared to the compare	munity natur ber/Debris aring trees se Score (m py Cover So + Native Pla s multiplied	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms 1.24  over Score)exp2/2)	0 0 0 0 0	
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max section) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specified the community Score is Not Benchmarked (SNIII) - If the community is naturally treeless this score is multiple section in the section of the community is naturally treeless this score is multiple section of the sect	ecies diversity  B) for regenerate plied by 1.29  c) + ((10 - Bion	Is the compared to the compare	munity natur ber/Debris aring trees se Score (m py Cover So + Native Pla s multiplied	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms 1.24  over Score)exp2/2)	0 0 0 0 0	
Native Plant Life Forms (max 20) from benchmark so  Non-Benchmarked Attributes (Scores determined from direct field observation Native:exotic Understorey biomass Score (max 8)  Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specified from the properties of the community Score is Not Benchmarked (SNI)  If the community is naturally treeless this score is multiple store is multiple forms. Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg and store is store in the community of the store is store in the score is multiple forms.	ecies diversity  B) for regenerate plied by 1.29  c) + ((10 - Bion	Is the compared to the compare	munity natur ber/Debris aring trees se Score (m py Cover So + Native Pla s multiplied	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms 1.24  over Score)exp2/2)	0 0 0 0 0	
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max second to the second	ecies diversity  B) for regeneral plied by 1.29 b) + ((10 - Bioralttributes x ((8)	Is the coming Fallen Time Hollow-be Mature Tree Cano Hation this score is mass score - Tree D - Negative vege	munity natur ber/Debris aring trees se Score (m py Cover So + Native Pla s multiplied	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms  1.24  over Score)exp2/2) utes) / 80))	0 0 0 0 0	
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max stributes) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specified in the community Score is Not Benchmarked (SNI) - If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg as Native Plant Species Diversity)	ecies diversity  B) for regeneral plied by 1.29 b) + ((10 - Bioralttributes x ((8)	Is the coming Fallen Time Hollow-be Mature Tree Cano Hation this score is mass score - Tree D - Negative vege	munity natur ber/Debris aring trees se Score (m py Cover So + Native Pla s multiplied	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms  1.24  over Score)exp2/2) utes) / 80))	0 0 0 0 0	
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max second time) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specified timber/debris + Hollow-bearing trees - If the community Score is Not Benchmarked (SNI) - If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg and Native Plant Species Diversity Weed Score	ecies diversity  B) for regeneral plied by 1.29 b) + ((10 - Bioralttributes x ((8)	Is the coming Fallen Time Hollow-be Mature Tree Cano Hation this score is mass score - Tree D - Negative vege	munity natur ber/Debris aring trees se Score (m py Cover So + Native Pla s multiplied	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms  1.24  over Score)exp2/2) utes) / 80))	0 0 0 0 0	
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Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max second to the second	ecies diversity  B) for regeneral plied by 1.29 b) + ((10 - Bioralttributes x ((8)	Is the coming Fallen Time Hollow-be Mature Tree Cano Hation this score is mass score - Tree D - Negative vege	munity natur ber/Debris aring trees se Score (m py Cover So + Native Pla s multiplied	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms  1.24  over Score)exp2/2) utes) / 80))	0 0 0 0 0	
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max stributes) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specified in the community score is Not Benchmarked (SNI) - If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg at Native Plant Species Diversity)  Native Plant Species Diversity Weed Score	ecies diversity  B) for regeneral plied by 1.29 b) + ((10 - Bioralttributes x ((8)	Is the coming Fallen Time Hollow-be Mature Tree Cano Hation this score is mass score - Tree D - Negative vege	munity natur ber/Debris aring trees se Score (m py Cover So + Native Pla s multiplied	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms  1.24  over Score)exp2/2) utes) / 80))	0 0 0 0 0	
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max second time) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specified timber/debris + Hollow-bearing trees - If the community Score is Not Benchmarked (SNI) - If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg as Native Plant Species Diversity)  Weed Score Native Plant Life Forms Regeneration	ecies diversity  B) for regeneral plied by 1.29 b) + ((10 - Bioralttributes x ((8)	Is the coming Fallen Time Hollow-be Mature Tree Cano Hation this score is mass score - Tree D - Negative vege	munity natur ber/Debris aring trees se Score (m py Cover So + Native Pla s multiplied	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms  1.24  over Score)exp2/2) utes) / 80))	0 0 0 0 0	
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max second time) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native speciallen timber/debris + Hollow-bearing trees - If the community Score is Not Benchmarked (SNI) - If the community is naturally treeless this score is multiple second tributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg at Native Plant Species Diversity)  Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Mature Trees	ecies diversity  B) for regeneral plied by 1.29 b) + ((10 - Bioralttributes x ((8)	Is the coming Fallen Time Hollow-be Mature Tree Cano Hation this score is mass score - Tree D - Negative vege	munity natur ber/Debris aring trees se Score (m py Cover So + Native Pla s multiplied	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms  1.24  over Score)exp2/2) utes) / 80))	0 0 0 0 0	
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max second times) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specially from the community Score is Not Benchmarked (SNI) - If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds) VEGETATION CONDITION SCORE (Positive veg as Native Plant Life Forms Regeneration   Native:exotic Understorey Biomass   Mature Trees   Tree Canopy Cover	ecies diversity  B) for regeneral plied by 1.29 b) + ((10 - Bioralttributes x ((8)	Is the coming Fallen Time Hollow-be Mature Tree Cano Hation this score is mass score - Tree D - Negative vege	munity natur ber/Debris aring trees se Score (m py Cover So + Native Pla s multiplied	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms  1.24  over Score)exp2/2) utes) / 80))	0 0 0 0 0	
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max station) Positive Vegetation Attributes Score = Native speciallen timber/debris + Hollow-bearing trees - If the community Score is Not Benchmarked (SNi If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds VEGETATION CONDITION SCORE (Positive veg at Native Plant Species Diversity)  Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Mature Trees Tree Canopy Cover Tree Hollows	ecies diversity  B) for regeneral plied by 1.29 b) + ((10 - Bioralttributes x ((8)	Is the coming Fallen Time Hollow-be Mature Tree Cano Hation this score is mass score - Tree D - Negative vege	munity natur ber/Debris aring trees se Score (m py Cover So + Native Pla s multiplied	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms  1.24  over Score)exp2/2) utes) / 80))	0 0	
Non-Benchmarked Attributes (Scores determined from direct field observation) Native:exotic Understorey biomass Score (max second times) Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native specially from the community Score is Not Benchmarked (SNI) - If the community is naturally treeless this score is multiple Negative Vegetation Attributes Score = (15 - Weeds) VEGETATION CONDITION SCORE (Positive veg as Native Plant Life Forms Regeneration   Native:exotic Understorey Biomass   Mature Trees   Tree Canopy Cover	ecies diversity  B) for regeneral plied by 1.29 b) + ((10 - Bioralttributes x ((8)	Is the coming Fallen Time Hollow-be Mature Tree Cano Hation this score is mass score - Tree D - Negative vege	munity natur ber/Debris aring trees se Score (m py Cover So + Native Pla s multiplied	Grass-tree Total  ally treeless? (max 5) Score (max 5) ax 8) core (max 5)  nt Life Forms  1.24  over Score)exp2/2) utes) / 80))	0 0 0 0 0	

Conservation Significance S	core			
Is the vegetation association considered a Threate	ned Ecologica	al community or Ecosy	stem?	Yes/No
State (Provisional List of Threatened Ecosystems				
State (Provisional List of Threatened Ecosystems			.2 pts)	
State (Provisional List of Threatened Ecosystems	The state of the s	A CALL TO SECURE AND A SECURE A		
Nationally (EPBC Act) Vulnerable community (0	THE RESERVE OF THE PARTY OF THE			
Nationally (EPBC Act) Endangered or Critically		community (0.4 pts)		
Note; all sites will score a minimum Conservation Signi			reatened Community Score	1
Number of Threatened Flora Species recorded				Number
*If a species has both a State (NP&W Act) and N	lational (EPB	C Act) rating, it's only	recorded for its National rating	1.
State Rare species recorded (1 pt each)				0
State Vulnerable species recorded (2.5 pt each)				0
State Endangered recorded (5 pts each)				0
Nationally Vulnerable species recorded (10 pts e				0
Nationally Endangered or Critically endangered	the state of the state of the state of the state of	and the second s		0
0 = 0 pts; <2 = 0.04 pts; 2 -	<5 = 0.08 pts;	5 - <10 = 0.12 pts; 10 -	<20 = 0.16 pts; 20 or > = 0.2 pts Threatened Flora Score	0
Potential habitat for Threatened Fauna Specie	s (number o	bserved or previous	sly recorded)	Number
*If a species has both a State (NP&W Act) and N	lational (EPB	C Act) rating, it's only	recorded for its National rating	I.
State Rare species observed or locally recorded	(1 pt each)			0
State Vulnerable species observed or locally rec	orded (2.5 pt	each)		0
State Endangered species observed or locally re	ecorded (5 pt	each)		0
Nationally Vulnerable species observed or locall				0
Nationally Endangered or Critically endangered				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	0
			Threatened Fauna Score	0
CONSERVATION SIGNIFICANCE SCORE				1
		1		
Total Scores for the Site	Score	Vegetation Cond Conservation Si	dition x Landscape Context : gnificance =	(
LANDSCAPE CONTEXT SCORE	1.15	UNIT BIODIVER	RSITY SCORE	4.67
VEGETATION CONDITION SCORE	4.06	Total Biodivers	ity Score	7-1-10
CONSERVATION SIGNIFICANCE SCORE	1.00	(Biodiversity S	core x hectares)	3.64
Photo Point and Vegetation Survey Location			Direction of the Photo	7
DIRECTION 53H 555179	1910	ACCURACY 3 m	North-west	
NW (T) 6216761		DATUM GDA2020	GPS Reference	
			Datum	GDA20
	,		Zone (52, 53 or 54)	
Maria de la companya del companya de la companya de la companya del companya de la companya de l		Market Control	Easting (6 digits)	
	10 200		Northing (7 digits)	
			Description	
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	Species name		Conservation status		BAM site	
Family name		Common name	SA	Aus	A1	A2
BORAGINACEAE	Halgania cyanea	Rough Blue-flower			Χ	
CASUARINACEAE	Allocasuarina muelleriana ssp.	Common Oak-bush			Х	
CASUARINACEAE	Allocasuarina verticillata	Drooping Sheoak			Х	
CHENOPODIACEAE	Enchylaena tomentosa var. tomentosa	Ruby Saltbush			Х	
CHENOPODIACEAE	Rhagodia crassifolia	Fleshy Saltbush			Х	
CHENOPODIACEAE	Threlkeldia diffusa	Coast Bonefruit			Х	
COMPOSITAE	*Conyza bonariensis	Flax-leaf Fleabane				Х
COMPOSITAE	*Dittrichia graveolens	Stinkweed				Х
COMPOSITAE	*Lactuca serriola f.	Prickly Lettuce				Х
COMPOSITAE	Olearia ramulosa	Twiggy Daisy-bush			Х	
COMPOSITAE	*Senecio pterophorus	African Daisy			Х	Х
CRUCIFERAE	*Brassica tournefortii	Wild Turnip				Х
CRUCIFERAE	#Diplotaxis tenuifolia	Lincoln Weed				Х
CUPRESSACEAE	Callitris gracilis	Southern Cypress Pine			Χ	
CYPERACEAE	Gahnia deusta	Limestone Saw-sedge			Х	
CYPERACEAE	Gahnia filum	Thatching Grass			Х	
CYPERACEAE	Lepidosperma carphoides	Black Rapier-sedge			Х	
CYPERACEAE	Lepidosperma viscidum	Sticky Sword-sedge			Х	
DIPSACACEAE	*Scabiosa atropurpurea	Pincushion			Х	Χ
EUPHORBIACEAE	Beyeria lechenaultii	Pale Turpentine Bush			Х	
GOODENIACEAE	Dampiera rosmarinifolia	Rosemary Dampiera			Х	Х
GRAMINEAE	Austrostipa elegantissima	Feather Spear-grass			Х	
GRAMINEAE	Austrostipa sp.	Spear-grass			Х	Х
GRAMINEAE	*Avena barbata	Bearded Oat			Х	Х
GRAMINEAE	*Dactylis glomerata	Cocksfoot			Χ	
GRAMINEAE	Enneapogon nigricans	Black-head Grass			Χ	Х
GRAMINEAE	*Piptatherum miliaceum	Rice Millet			Χ	Х
GRAMINEAE	Rytidosperma sp.	Wallaby-grass			Χ	Х
LABIATAE	*Salvia verbenaca var.	Wild Sage			Χ	Χ

Family name	Species name		Conservation status		BAN	1 site
		Common name	SA	Aus	A1	A2
LAURACEAE	Cassytha sp.	Dodder-laurel			Χ	
LEGUMINOSAE	Acacia calamifolia	Wallowa			Χ	
LEGUMINOSAE	Acacia ligulata	Umbrella Bush			Χ	
LEGUMINOSAE	*Acacia longifolia ssp. longifolia	Sallow Wattle			Χ	Χ
LEGUMINOSAE	Acacia microcarpa	Manna Wattle			Χ	
LEGUMINOSAE	Acacia myrtifolia	Myrtle Wattle			Χ	
LEGUMINOSAE	Acacia pycnantha	Golden Wattle			Χ	
LEGUMINOSAE	Acacia sclerophylla var. sclerophylla	Hard-leaf Wattle			Χ	
LEGUMINOSAE	Acacia spinescens	Spiny Wattle			Χ	
LEGUMINOSAE	Daviesia asperula ssp.	Bitter-pea			Χ	
LEGUMINOSAE	Eutaxia microphylla	Common Eutaxia			Χ	
LEGUMINOSAE	Templetonia retusa	Cockies Tongue			Χ	
LEGUMINOSAE	*Trifolium arvense var. arvense	Hare's-foot Clover			Χ	Х
LILIACEAE	#Asparagus asparagoides f.	Bridal Creeper			Χ	
LILIACEAE	*Asphodelus fistulosus	Onion Weed				Χ
LILIACEAE	Dianella revoluta var.				Х	
LILIACEAE	Lomandra collina	Sand Mat-rush			Χ	
MYOPORACEAE	Eremophila behriana	Rough Emubush			Χ	
MYRTACEAE	Callistemon rugulosus	Scarlet Bottlebrush			Χ	
MYRTACEAE	Calytrix involucrata	Cup Fringe-myrtle			Χ	
MYRTACEAE	Eucalyptus diversifolia ssp. diversifolia	Coastal White Mallee			Χ	
MYRTACEAE	Eucalyptus gracilis	Yorrell			Χ	
MYRTACEAE	Eucalyptus incrassata	Ridge-fruited Mallee			Χ	
MYRTACEAE	Eucalyptus odorata	Peppermint Box			Х	
MYRTACEAE	Eucalyptus peninsularis	Merrit			Χ	
MYRTACEAE	Eucalyptus petiolaris	Eyre Peninsula Blue Gum			Χ	
MYRTACEAE	Melaleuca decussata	Totem-poles			Χ	
MYRTACEAE	Melaleuca lanceolata	Dryland Tea-tree			Χ	
MYRTACEAE	Melaleuca uncinata	Broombush			Χ	
PINACEAE	#Pinus halepensis	Aleppo Pine			Χ	

				Conservation status		l site
Family name	Species name	Common name	SA	Aus	A1	A2
PITTOSPORACEAE	Billardiera sericophora	Silky Apple-berry			Х	
PITTOSPORACEAE	Pittosporum angustifolium	Native Apricot			Χ	
PROTEACEAE	Adenanthos terminalis	Yellow Gland-flower			Х	
PROTEACEAE	Grevillea ilicifolia ssp. ilicifolia	Holly-leaf Grevillea			Х	
PROTEACEAE	Hakea cycloptera	Elm-seed Hakea			Χ	
RANUNCULACEAE	Clematis microphylla	Old Man's Beard			Х	
RUTACEAE	Correa backhouseana var. coriacea	Thick-leaf Correa			Х	
SANTALACEAE	Exocarpos sparteus	Slender Cherry			Х	
SANTALACEAE	Santalum acuminatum	Quandong			Х	

<sup>\* =</sup> Introduced species.

<sup># =</sup> Weed species declared under the *Landscape South Australia Act 2019*.



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