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**Native Vegetation Removal Report:  
Detailed Assessment Pathway**



**Native Vegetation Removal for**

**Solar Farm at 6 Meridian Road,  
Yelta, VIC 3505**

Version 2

Date: 03/6/22

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## EXECUTIVE SUMMARY

Chris Smith & Associates (“the Proponent”) is proposing the development of a Solar Farm at 6 Meridian Road, Yelta, VIC 3505. The development is located within Mallee CMA and Mildura Rural City Council Local Government Area (LGA).

Red-Gum Environmental Consulting Pty Ltd (‘Red-Gum’) was commissioned by the Proponent to develop this report, which addresses the application requirements for a planning permit to remove native vegetation in terms of the *Guidelines for the removal, destruction or lopping of native vegetation* (the Guidelines).

The losses were calculated to be 3.187 ha of native grassland across one Location Category. The losses have been mapped as one-hundred and seventy-two (172) individual patches of highly modified chenopod shrubland vegetation, with no (zero) native trees to be affected by the development.

The loss site runs alongside Hoyle Road, within the Murray Scroll Belt (MSB) bioregion. After site inspection, it was determined that the most representative of the site is Riverine Chenopod Woodland (EVC 103) which is listed as *Depleted* within the MSB bioregion.

The native vegetation is in an area mapped as a *Depleted* Ecological Vegetation Class (EVC). Removal of less than 0.5 hectares of native vegetation in this Location Category (Location 3) could have a significant impact on any habitat for a rare or threatened species, so because >0.5 hectares is currently proposed to be removed (3.187 ha) a *Detailed Assessment Pathway* is required.

The loss site is within a previously land-formed irrigation bay setting that has re-established highly modified chenopod shrubland vegetation, fringing Black Box woodland to the North and West (which is unaffected by the development). The specific-general offset test was applied to the proposal. No (zero) specific offsets are required, as the species offset threshold was not exceeded for any of the listed rare or threatened species (**Appendix A**).

The NVR Report has calculated that a General Offset amount (in general habitat units) of **0.687** is required. The proponent also acknowledges that the strategic biodiversity score of the offset site must be a minimum of **0.637** and 0 large trees. The proponent will seek a third party offset via a registered broker.

This document provides supplementary information to the Native Vegetation Removal (NVR) Report for the site generated on 30/05/2022, Report ID: RGE\_2022\_013 (**Appendix A**) under the Guidelines and represents the base information that must be provided when applying for a permit to remove native vegetation, specifically, Tables 4 and 5 of the guidelines (**Appendix B & C**).

## 1 LOCATION

Chris Smith & Associates (“the Proponent”) is proposing the development of a Solar Farm at 6 Meridian Road, Yelta, VIC 3505. The development is located within Mallee CMA and Mildura Rural City Council Local Government Area (LGA).

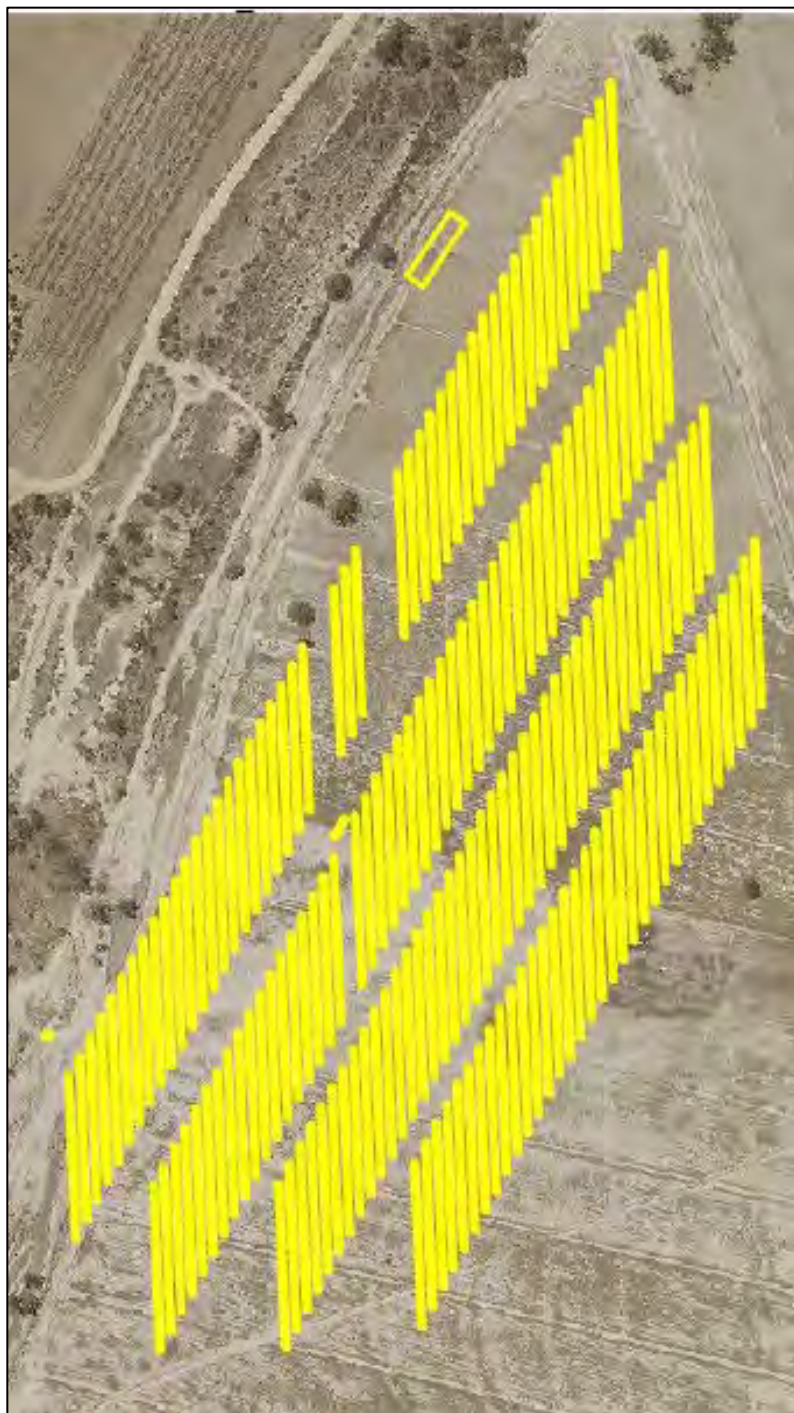


Figure 1: Location of the site. Areas lost in yellow. Source: NVR Report, 30/05/2022

## 2 DESCRIPTION OF THE NATIVE VEGETATION

The loss site off Meridian Road, is within the Murray Scroll Belt (MSB) bioregion. After site inspection, it was determined that the most representative of the site is Riverine Chenopod Woodland (EVC 103) which is listed as *Depleted* within the MSB bioregion.

The losses were calculated to be 3.187 ha of native grassland across one Location Category. Consisting of four (4) patches of highly modified chenopod shrubland vegetation. No native trees are to be lost as part of the development.

The site assessment included a Habitat Hectare assessment of the lost patches which are in a single habitat zone (**Appendix E**). The assessment was undertaken by Damian Wall (Red-Gum Environmental Consulting) who is an accredited native vegetation assessor listed on the competency list managed by DELWP. The losses were calculated to be 3.19 ha across one (1) Location Category (**Map 2**).

As the removal is in an area mapped as a *Depleted* Ecological Vegetation Class Riverine Chenopod Woodland (EVC 103) and removal of less than 0.5 hectares of native vegetation could have a significant impact on habitat for a rare or threatened species, native vegetation in this Location Category, therefore because >0.5 hectares is currently proposed to be removed (3.19 ha) a *Detailed Assessment Pathway* is required.

**Table 1: Lost Vegetation – Ensym Report**

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.809		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.809		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.781		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.808		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.789		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.808		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.791		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.807		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.807		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.794		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.799		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.806		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.806		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.803		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.806		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.805		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.806		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.809		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.804		0.004	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
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1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.805		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.819		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.803		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.804		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.804		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.822		0.004	General
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1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.802		0.004	General
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1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.802		0.004	General
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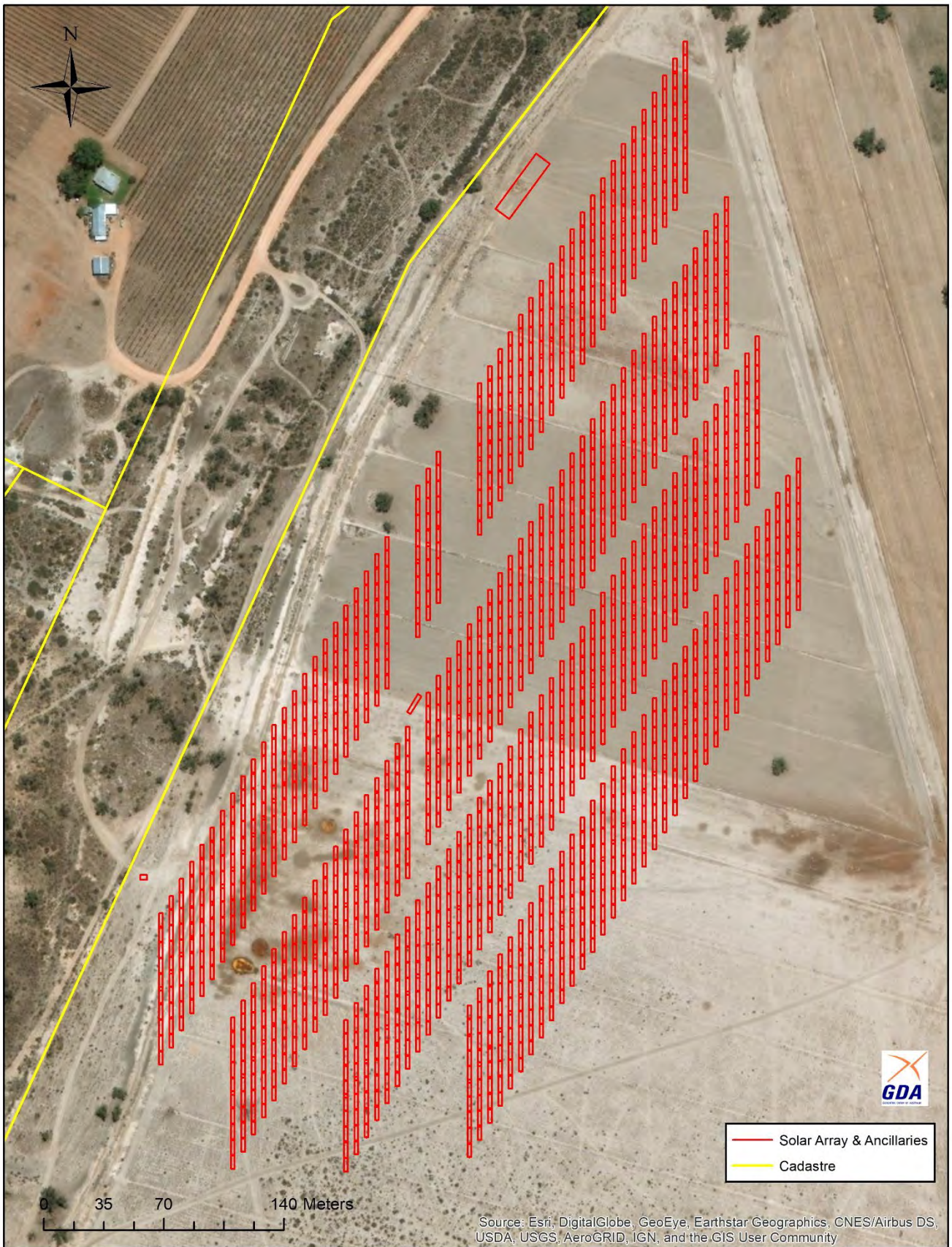
Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
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1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.850		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.003	0.003	0.800		0.001	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.850		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.850		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
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1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.850		0.004	General





Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.794		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.787		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.787		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.788		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.784		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.784		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.785		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.781		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.782		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.779		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.779		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.776		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.776		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.773		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.774		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.771		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.040	0.040	0.770		0.009	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.001	0.001	0.770		0.000	General
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General



Map 1: Loss site at 6 Meridian Road, Yelta, VIC 3505. Source: Esri, 2021

### 3 MAPS, PLANS & PHOTOGRAPHS

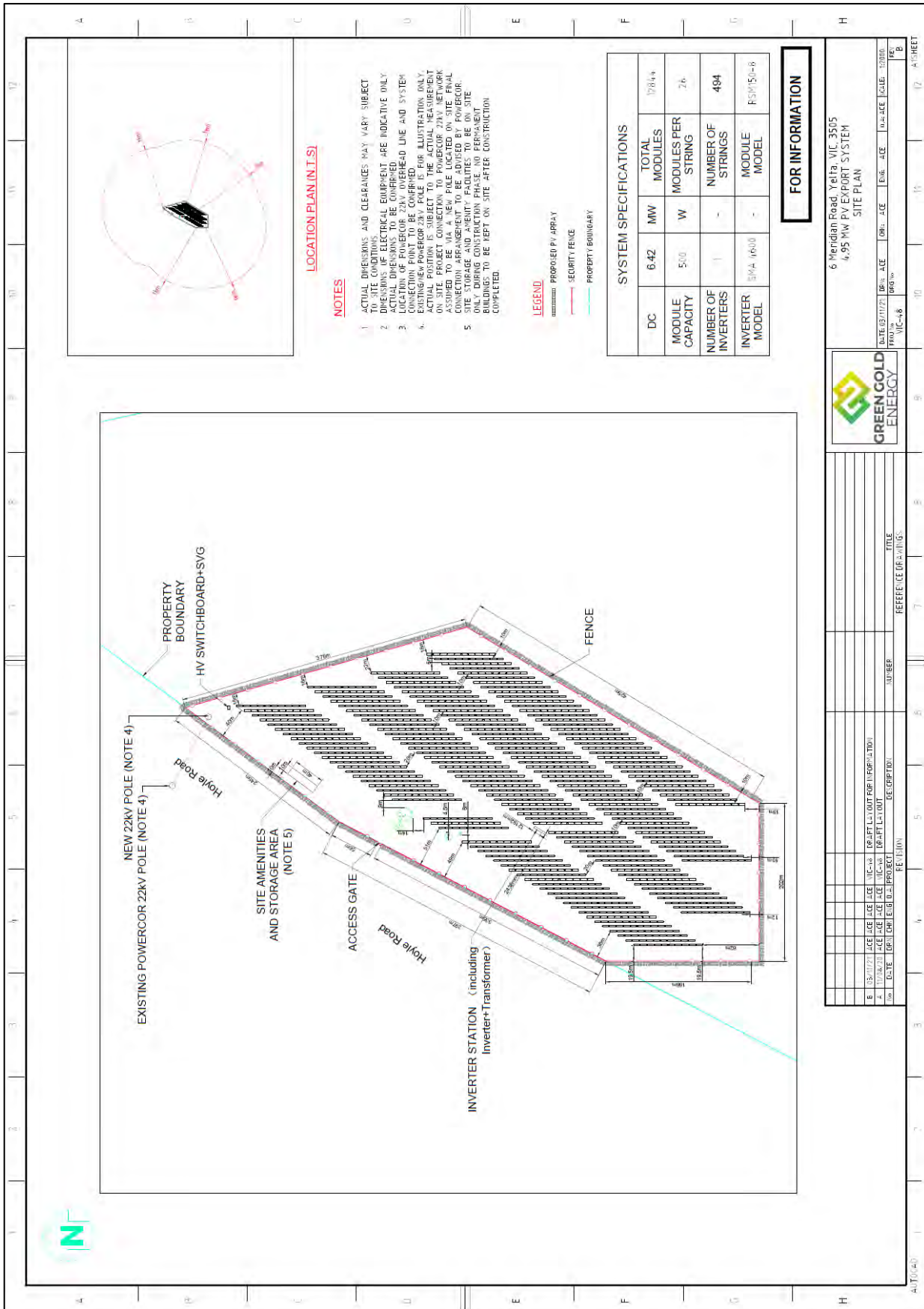
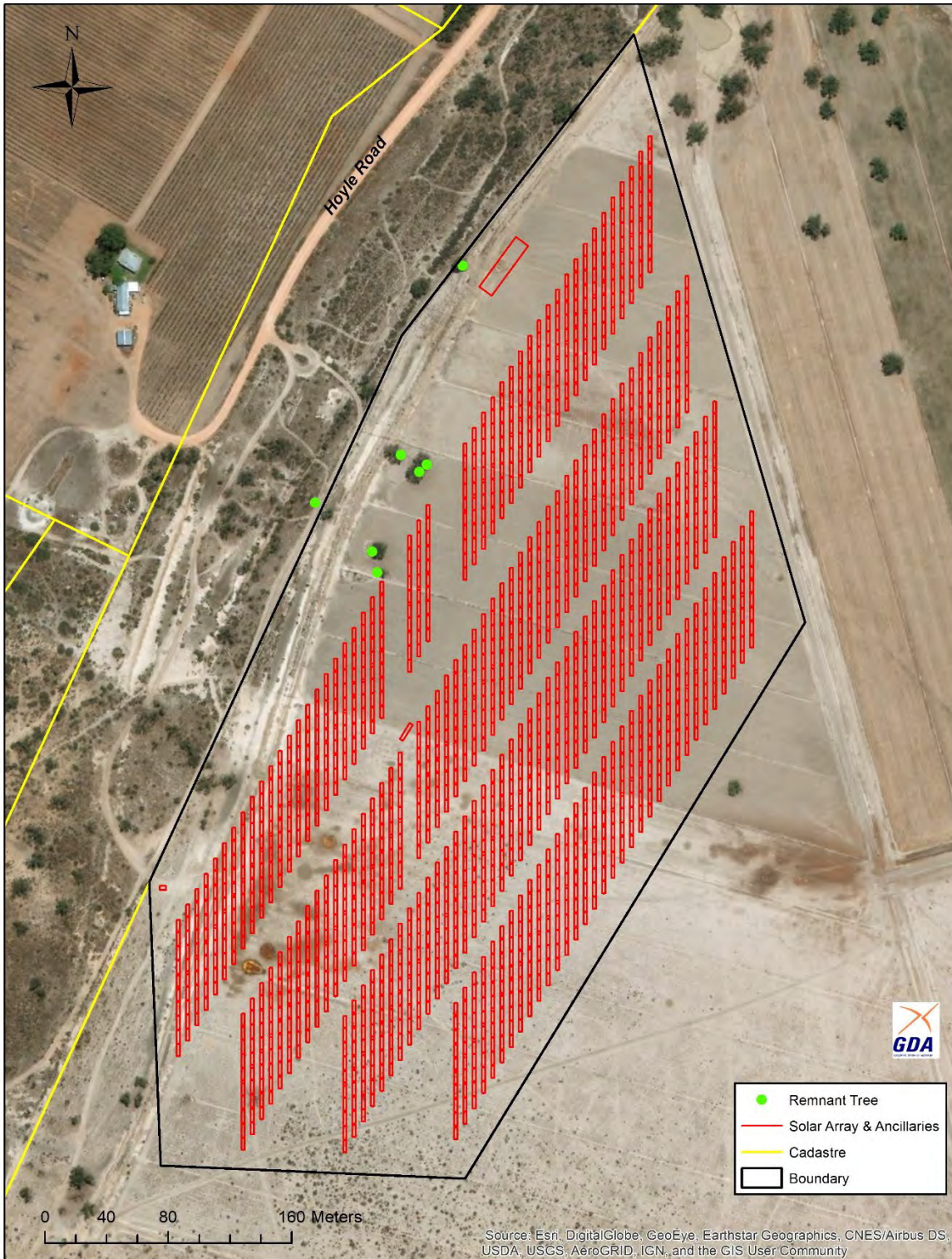


Figure 2: Development plan. Source: Green Gold Energy, 2021

### 3.1 Lost Vegetation

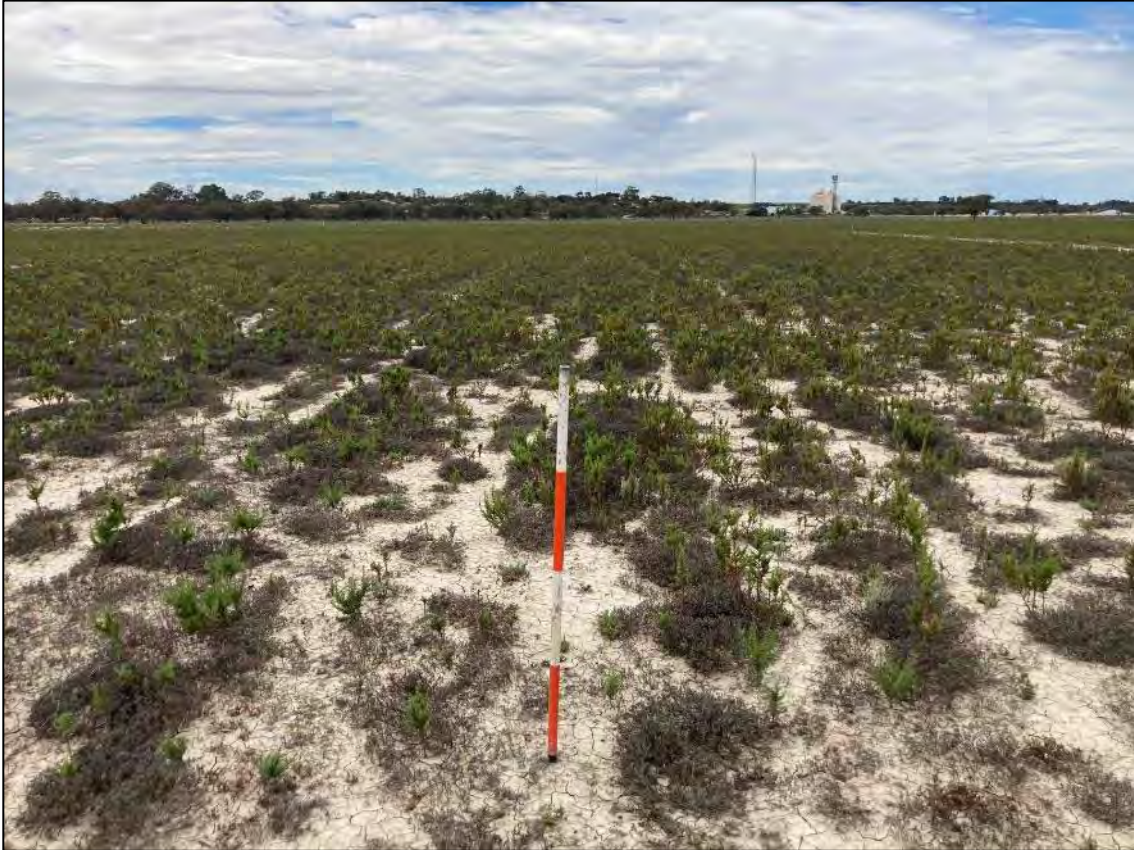
The losses were calculated to be 3.187 ha of native grassland across one Location Category. The losses have been mapped as one-hundred and seventy-two (172) individual patches of highly modified chenopod shrubland vegetation, with no (zero) native trees to be affected by the development. The following photo captions refer to the loss areas as noted in the Native Vegetation Removal Report (RGE-2022-013 dated 30/5/2022).



Map 2: Lost Vegetation – Whole Site. Scale 1:3,000



**Photo 1: Zone 1-A –Site conditions. Photo: D.Wall**



**Photo 2: Zone 1-A –Site conditions. Photo: D.Wall**



**Photo 3: Site conditions, *Sclerolena* spp. common across site. Photo: D.Wall**



**Photo 4: Site conditions, Bladder saltbush (*Atriplex vesicaria*) common across site. Photo: D.Wall**



**Photo 5: Site conditions, Creeping saltbush (*Altriplex semibaccata*), common across site. Photo: D.Wall**



**Photo 6: Remnant Black Box trees (not to be removed) on site. Photo: D.Wall**

## 4 ASSESSMENT PATHWAY OF THE APPLICATION

The losses were calculated to be 3.187 ha, mapped as one-hundred and seventy-two (172) individual patches of highly modified chenopod shrubland vegetation, with no (zero) native trees, across one (1) Location Category (Location 3). The native vegetation is in an area mapped as a *Depleted* Ecological Vegetation Class.

Removal of less than 0.5 hectares of native vegetation in this Location Category (Location 3) could have a significant impact on any habitat for a rare or threatened species, therefore because more than 0.5 hectares is currently proposed to be removed (3.187 ha) a *Detailed Assessment Pathway* is required.

Assessment pathway	Detailed Assessment Pathway
Extent including past and proposed	3.187 ha
Extent of past removal	0.000 ha
Extent of proposed removal	3.187 ha
No. Large trees proposed to be removed	0
Location category of proposed removal	Location 3 The native vegetation is in an area where the removal of less than 0.5 hectares could have a significant impact on habitat for one or more rare or threatened species.

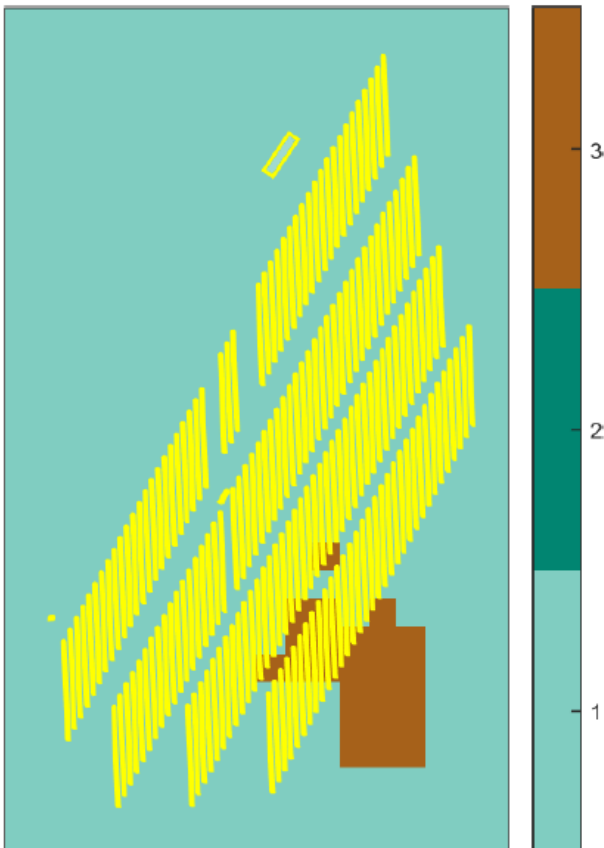


Figure 3: Native Vegetation Location Category map from NVR report 30/05/2022



## 5 CLEARING FOR DEFENDABLE SPACE

The clearing is not required to create defendable space.

## 6 PROPERTY VEGETATION PLAN

A Property Vegetation Plan (PVP) for the loss site is not required and has not been developed.

## 7 PREVIOUS CLEARING RELEVANT TO THE SITE

No previous Planning Permits have been granted for clearing at the same address.

## 8 AVOID & MINIMISE STATEMENT

### 8.1 Avoiding Impacts on Native Vegetation

After project inception Chris Smith & Associates engaged Red-Gum Environmental Consulting Pty Ltd to conduct a vegetation survey of the site which involved the collection of GPS points, species and DBH of any and all large trees within and adjacent to the site. The original survey was conducted in August 2021. No threatened flora or fauna was encountered at the time of inspection. The total assessed lost was deemed to be a 6-7 Ha patch of native vegetation within a laser formed irrigation bay.

Following review of the construction method (and consultation with DELWP) the construction footprint and associated losses were reduced from the anticipated 6-7 ha to 3.187 ha. The design of the array layout has assumed and incorporated the following to reduce the total impact/loss area:

- All solar array lines are 2.25m wide (this is the 'shade loss' area by varying lengths across the site);
- A 3m gap between array lines to allow for construction vehicles (this area is not considered 'lost' if minimisation measures in **Section 8.2** are adhered to);
- No formal construction of all-weather road for internal access ( which would have been considered a 'loss' if these areas were be cleared, grubbed and dressed with imported road materials).

The reduction in loss area is dependant on adherence to the Minimisation conditions, which will include very clear demonstration and requirements that the construction process can and will occur/be done in a manner that will not destroy or detrimentally impact the areas in between the arrays and that these areas are managed in a way that protects their current quality during and post construction.

The mitigation measures will require formalisation in the project Construction Environment Management Plan (CEMP) or equivalent, post approval by the determining authority. This will be critical to demonstrate that the proposal can in fact be implemented without exceeding the anticipated losses and creating impacts beyond these narrower linear impact areas.

## 8.2 Minimising Impacts on Native Vegetation & Biodiversity

The following strategies are to be implemented to minimise the impacts of the operation on surrounding vegetation:

- Construction of the array layout by small (4t excavator), mini-piling rigs and soft tyred vehicles;
- Clear designation of No-Go Zones at the end of each array that are not used by construction traffic;
- Designation of Lay down areas and site amenities (temporary or permanent) inside the native loss zones.
- All personnel involved with any development on the site are to be 'tool-boxed' on the importance of minimizing their impact on retained vegetation, adherence to the defined extent of works and any permit conditions.
- Machinery to be used on the project shall be thoroughly cleaned before entering the site to remove all seeds of invasive weeds and non-natives could invade the site.
- The site extent will be clearly defined prior to the construction period commencing.
- No soil will be removed from site and low impact measures utilised to install the solar array so that native grass seed banks are not permanently compromised.
- Any noxious weeds within the loss area will be sprayed before works commence.
- Preparation of a Construction Environment Management Plan (CEMP) or equivalent, post approval by the determining authority. The CEMP is to highlight all the above harm minimisation strategies and provide clear and measurable environmental objectives that can be audited to ensure losses do not exceed those already anticipated.

## 9 OFFSET STRATEGY

### 9.1 General Offset

A general offset is required when a proposal to remove native vegetation is not deemed (by application of the specific-general offset test) to have a significant impact on habitat for any rare or threatened species. The NVR Report has calculated that a General Offset amount (in general habitat units) of **0.687** is required. The proponent also acknowledges that the strategic biodiversity score of the offset site must be a minimum of **0.637** and 0 large trees. The proponent will seek to secure the required offsets via a third party. A description and map of the site is described in **Appendix D**.

## 10 IMPACTS ON RARE OR THREATENED SPECIES HABITAT

The loss site off Meridian Road, is within the Murray Scroll Belt (MSB) bioregion. After site inspection, it was determined that the most representative of the site is Riverine Chenopod Woodland (EVC103) which is listed as Depleted within the MSB bioregion. The losses were calculated to be 3.187 ha of native vegetation across a single Location Category. Four patches of native grassland will be lost.

The NVR report generated on 30/05/2022 identified 104 species (101 flora, 3 fauna) whose habitat may occur within the specified geographical region. It is highly unlikely that any threatened flora or fauna will be located within the site given the level of past disturbance and lack of trees in the areas proposed to be 'lost'. The following sections consider their likelihood of being affected by the works.

## 10.1 Database searches

A database search and literature review was undertaken. Relevant and available documents were reviewed for information on past land uses, presence of vegetation communities as well as flora and fauna. Relevant databases were searched for records of threatened species within a 1 km radius of the loss site.

This review was used to prepare a list of threatened flora and fauna species, ecological communities, migratory species and any significant habitat previously recorded or predicted to occur in the study area and the broader locality (listed and preliminary listed under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) and Flora and Fauna Guarantee Act 1988 (FFG Act). The following sources of information were consulted:

- The Department of Environment, Land, Water and Planning (DELWP) NatureKit (DELWP 2019);
- The Victorian Biodiversity Atlas (DELWP 2022) – 1 km radius of each of the study areas;
- Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) Protected Matters Search Tool – 1 km radius of the study areas (DoEE 2022);
- The Commonwealth Department of the Environment Species Profile and Threats Database;
- Victorian Rare or Threatened Species Advisory Lists.

## 10.2 Field assessment methodology

A variety of methods were employed during the field assessment stage. However, the nature of the proposal and construction methodology meant that some investigations were not warranted. **Table 2** provides a summary of methodologies used, those that were not and the reasons for both.

**Table 2: Field assessment methods employed**

Intended Target	Methodology
Diurnal Birds	Area search, where the observer walked the length of the site twice in its entirety.
	Point Count method, where observations were made from 2 points for 20 minutes each.
Nocturnal Birds	Day habitat search. Search habitat for pellets, and likely hollows.
	Stag-watching. Observing potential roost hollows for 30mins prior to sunset and 60mins following sunset.
Flying Mammals	Spotlighting on foot – 2hrs hour walking the site on 1 night.
	Stag-watching. Observing potential roost hollows for 30mins prior to sunset and 60mins following sunset.
Non-Flying Mammals	Search for scats and signs - 30 minutes searching relevant habitat, including trees for scratch marks.

## 10.3 Results

**Table 3** considers their likelihood of occurring in the proposed site following site assessment and consideration of the database search results. Five categories for the 'likelihood of occurrence' of species has been used. The categories are based on recorded sightings listed in credible databases, the presence or absence of suitable habitat, other features of the site, results of the field survey and professional judgement. The 5 categories are:

<b>'Yes'</b>	The species/community was or has been observed on the site.
<b>'Likely'</b>	A medium to High probability that a species uses the site
<b>'Potential'</b>	A suitable habitat for a species occurs on the site, but there is insufficient information to categorise the species as 'likely' or 'unlikely' to occur.
<b>'Unlikely'</b>	A Very Low to Low probability that a species uses the site.
<b>'No'</b>	Habitat on the site and in the vicinity is unsuitable for the species.

**Table 3: Rare or threatened species habitats on site, Protected Matters Search Tool (1 km radius of the site).**

Scientific Name	Common Name	Threatened Category	Likelihood
<i>Birds</i>			
<i>Numenius madagascariensis</i>	Eastern Curlew	Critically Endangered	Unlikely
<i>Pedionomus torquatus</i>	Plains-wanderer	Critically Endangered	Unlikely
<i>Calidris ferruginea</i>	Curlew Sandpiper	Critically Endangered	Unlikely
<i>Rostratula australis</i>	Australian Painted Snipe	Endangered	Unlikely
<i>Manorina melanotis</i>	Black-eared Miner	Endangered	Unlikely
<i>Botaurus poiciloptilus</i>	Australasian Bittern	Endangered	Unlikely
<i>Pezoporus occidentalis</i>	Night Parrot	Endangered	No
<i>Falco hypoleucos</i>	Grey Falcon	Vulnerable	Unlikely
<i>Leipoa ocellata</i>	Malleefowl	Vulnerable	No
<i>Polytelis anthopeplus monarchoides</i>	Regent Parrot (eastern)	Vulnerable	Unlikely
<i>Grantiella picta</i>	Painted Honeyeater	Vulnerable	Unlikely
<i>Fish</i>			
<i>Bidyanus bidyanus</i>	Silver Perch, Bidyan	Critically Endangered	No
<i>Galaxias rostratus</i>	Flathead Galaxias	Critically Endangered	No
<i>Craterocephalus fluviatilis</i>	Murray Hardyhead	Endangered	No
<i>Macquaria australasica</i>	Macquarie Perch	Endangered	No
<i>Maccullochella macquariensis</i>	Trout Cod	Endangered	No
<i>Maccullochella peelii</i>	Murray Cod	Vulnerable	No
<i>Frogs</i>			
<i>Litoria raniformis</i>	Growling Grass Frog	Vulnerable	No
<i>Mammals</i>			
<i>Phascolarctos cinereus</i>	Koala	Vulnerable	No
<i>Nyctophilus corbeni</i>	Corben's Long-eared Bat	Vulnerable	No
<i>Flora</i>			
<i>Lepidium monoplocoides</i>	Winged Pepper-cress	Endangered	No
<i>Swainsona murrayana</i>	Slender Darling-pea,	Vulnerable	No
<i>Swainsona pyrophila</i>	Yellow Swainson-pea	Vulnerable	No
<i>Pterostylis xerophila</i>	Desert Greenhood	Vulnerable	No
<i>Solanum karsense</i>	Menindee Nightshade	Vulnerable	No

**Table 4: Rare or threatened species habitats on site, the Victorian Biodiversity Atlas (1 km radius of the site) (DELWP 2019).**

Scientific Name	Common Name	Conservation Status (Victorian advisory list)	Likelihood
<b>Flora</b>			
<i>Amaranthus grandiflorus</i>	Large-flower Amaranth	Endangered	No
<i>Duma horrida subsp. horrida</i>	Spiny Lignum	Critically Endangered	No
<i>Tecticornia triandra</i>	Desert Glasswort	Rare in Victoria	No
<i>Sclerolaena decurrens</i>	Green Copperburr	Endangered	Unlikely
<i>Trianthema triquetrum</i>	Red Spinach	Critically Endangered	No
<b>Fauna</b>			
<i>Phalacrocorax varius</i>	Pied Cormorant	Near threatened	No
<i>Circus assimilis</i>	Spotted Harrier	Near threatened	Unlikely
<i>Haliaeetus leucogaster</i>	White-bellied Sea-Eagle	Endangered	No
<i>Lophochroa leadbeateri</i>	Major Mitchell's Cockatoo	Critically Endangered	Potential
<i>Ceyx azureus</i>	Azure Kingfisher	Near threatened	No
<i>Struthidea cinerea</i>	Apostlebird	Vulnerable	No
<i>Climacteris picumnus</i>	Brown Treecreeper	Near threatened	No
<i>Ardea alba</i>	Great Egret	Vulnerable	No

## 10.4 Assessment of Impacts on Threatened Species

The following section assesses whether the proposal (as discussed and reviewed in this assessment) is likely to have a significant effect on threatened biodiversity. *Physical* and *Biological* impacts have been considered.

### 10.4.1 Is the proposal likely to impact soil quality or stability?

Soil Quality – No. Land Stability - Yes. There is likely to be mobilisation of some soil given the nature of the proposal (construction). The site is susceptible to compaction by traffic immediately after periods of heavy rainfall. Mitigation measures are to extend (but not be limited to) the following:

- Development of an Erosion and Sediment Control Plan (ESCP) which is progressively implemented.
- Vehicle movements around the site will be restricted to clear areas and away from any existing trees and flagging exclusion fencing to be installed.
- When rain is predicted, an assessment will be made prior to works beginning. If heavy rain is predicted, work will not commence.
- No stockpiles will be established under native vegetation in any area on site or in within the study area.
- Maintenance and checking of the erosion and sedimentation controls will need to be undertaken on a regular basis. Sediment will be cleared from behind barriers on a regular basis and all controls will be managed in order to work effectively at all times.
- Rehabilitation of any disturbed areas should be completed as soon as possible after completion of works where practical to do so.

### 10.4.2 Is the activity likely to affect a waterbody, watercourse or wetland or natural drainage system?

No. If ESCP controls are implemented and length of slope guidelines are adhered to, then the risk to water quality is extremely low.

**10.4.3 Is the activity likely to change flood or tidal regimes, or be affected by flooding?**

No.

**10.4.4 Does the proposal involve the use, storage or transport of hazardous substances or the use or generation of chemicals which may build up residues in the environment?**

No. Some diesel will be stored in 'slip-on' tanks in the back of utility vehicles and they will not be left on-site outside of working hours.

**10.4.5 Does the activity involve the generation or disposal of gaseous, liquid or solid wastes or emissions?**

Yes. However only the operation of machinery should produce emissions, no further disposal of liquids, gases or solid wastes is expected.

**10.4.6 Will the activity involve the emission of dust, odours, noise, vibration, or radiation in the proximity of residential/urban areas or other sensitive locations?**

Yes. The project may emit some dust and noise but this is expected to be minimal and the time period short. Given the current level of disturbance and providing the recommendations contained within this report are adhered to, it is unlikely that the proposal will result in extensive or harmful outcomes regarding these activities.

**10.4.7 Is any vegetation to be cleared or modified?**

Yes, some native vegetation, the site is predominantly native grasses/herbs and introduced pasture grasses. No remnant native trees are proposed for removal.

**10.4.8 Is the activity likely to have a significant effect on threatened flora or fauna species, populations, or their habitats, or critical habitat; or an endangered ecological community or its habitat?**

No. Whilst four patches of native vegetation are proposed to be 'lost', no (zero) remnant native trees are proposed to be removed. It is unlikely that the loss of the native grasses/herbs will displace any rare or threatened species that may be using the site opportunistically.

**10.4.9 Does the activity have the potential to endanger, displace or disturb fauna (including fauna of conservation significance) or create a barrier to their movement?**

Endanger – No.

Displace – No.

Disturb – Yes. Threatened and declining woodland dependent birds may be using the area opportunistically during winter, hence the construction activities may prove to disturb foraging activities for a short period. The construction activities will avoid all existing remnant native trees that neighbour the loss area, however some native grasses are proposed for removal.

**10.4.10 Is the activity likely to impact on an ecological community of conservation significance?**

Yes. The site was likely (historically at least) part of a depleted EVC and losses are predicted to be >0.5 ha, however no hollow bearing trees or other important habitat features are being removed. Therefore, theoretically, the EVC should not be impacted negatively. Mitigation measures should ensure that impacts are minimised.

**10.4.11 Is the activity likely to cause a threat to the biological diversity or ecological integrity of an ecological community?**

No. The current site has an extensive history of disturbance and is highly modified. Furthermore any areas of native vegetation that offer true harbor and feeding opportunities, will be un-affected by the works.

**10.4.12 Is the activity likely to introduce noxious weeds, vermin, feral species or genetically modified organisms into an area?**

Vermin – No.

Feral Species – No.

Noxious Weeds - Possible. The movement of vehicles, plant, equipment and people on and off the subject site/s has the potential to introduce noxious weeds to the area. The area is also impacted by several pasture grass weed species. Wherever possible, removal of weeds should be undertaken prior to seed developing, which for most species occurs during the warmer months (i.e. summer). Additionally, the following strategies are to apply to weed management within the site:

- Minimal impact techniques are to be used, ensuring no native species are damaged during weed control activities.
- Soil disturbance by vehicle and pedestrian access is to be kept to a minimum outside the construction footprint.
- Herbicide application is to be administered by authorised personnel only (e.g. ChemCert Accreditation– AQF 3), in accordance with the directions on the container (application rates, MSDS requirements) and any applicable Workcover requirements.
- All machinery used within the site is to be thoroughly cleaned by removing all plant material, dust or soil, and any accumulation of grease from the machine prior to the commencement of the construction.
- Any weeds removed (particularly those bearing seeds) are to be disposed of appropriately at the nearest waste management facility.
- If required, only topsoil from areas with no noxious or highly invasive weed species should be re-used in rehabilitation (it is generally assumed that if there is no evidence of noxious or invasive weeds in an area, the topsoil in this area is not contaminated with the seeds of such weeds).

## 11 Conclusion

The factors considered when determining whether an action, development or activity is likely to significantly affect threatened species, populations or ecological communities, or their habitats are either:

1. **Direct impacts** that directly affect the habitat of species and ecological communities and of individuals using the study area. They include, but are not limited to, death through predation, trampling, poisoning of the animal/plant itself and the removal of suitable habitat; or
2. **Indirect impacts** that occur when project-related activities affect species or ecological communities in a manner other than direct loss within the subject site. Indirect impacts may sterilise or reduce the habitability of adjacent or connected habitats. Indirect impacts can include loss of individuals through starvation, exposure, predation by domestic and/or feral animals, loss of breeding opportunities and loss of shade/shelter, etc.

The losses were calculated to be 3.187 ha, comprising four (4) patches of native vegetation, in a single Location category (Location 3).


The site was likely part of a depleted EVC historically, however it is now a highly modified form of a chenopod shrubland within a land formed irrigation bay setting. Given that zero large hollow bearing trees are to be removed as part of the project, it is unlikely that the project will displace any of the species potentially utilising the site opportunistically for foraging or passing through the site.

I am of the opinion that the activities as proposed will not have a significant effect on any of the identified threatened species and ecological communities and their conservation as noted within this report.



# 12 APPENDIX

## Appendix A: Native Vegetation Removal Report



### Native vegetation removal report

This report provides information to support an application to remove, destroy or lop native vegetation in accordance with the *Guidelines for the removal, destruction or lopping of native vegetation*. The report is **not an assessment by DELWP** of the proposed native vegetation removal. Native vegetation information and offset requirements have been determined using spatial data provided by the applicant or their consultant.

Date of issue: 30/05/2022  
Time of issue: 3:10 pm

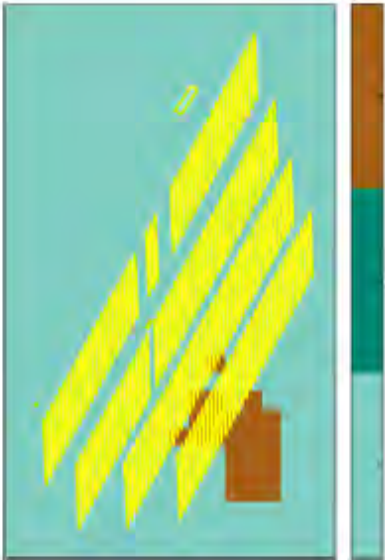
Report ID: RGE\_2022\_013


Project ID	LossVeg_Yelta_VioGrid94_280522
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### Assessment pathway

Assessment pathway	Detailed Assessment Pathway
Extent including past and proposed	3.187 ha
Extent of past removal	0.000 ha
Extent of proposed removal	3.187 ha
No. Large trees proposed to be removed	0
Location category of proposed removal	Location 3 The native vegetation is in an area where the removal of less than 0.5 hectares could have a significant impact on habitat for one or more rare or threatened species.

**1. Location map**







Environment,  
Land, Water  
and Planning

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## Native vegetation removal report

### Offset requirements if a permit is granted

Any approval granted will include a condition to obtain an offset that meets the following requirements:

General offset amount <sup>1</sup>	0.687 general habitat units
Vicinity	Mallee Catchment Management Authority (CMA) or Mildura Rural City Council
Minimum strategic biodiversity value score <sup>2</sup>	0.637
Large trees	0 large trees

NB: values within tables in this document may not add to the totals shown above due to rounding

Appendix 1 includes information about the native vegetation to be removed

Appendix 2 includes information about the rare or threatened species mapped at the site.

Appendix 3 includes maps showing native vegetation to be removed and extracts of relevant species habitat importance maps

<sup>1</sup> The general offset amount required is the sum of all general habitat units in Appendix 1.

<sup>2</sup> Minimum strategic biodiversity score is 60 per cent of the weighted average score across habitat zones where a general offset is required.

Appendix 1: Description of native vegetation to be removed

The species-general offset test was applied to your proposal. This test determines if the proposed removal of native vegetation has a proportional impact on any rare or threatened species habitats above the species offset threshold. The threshold is set at 0.005 per cent of the mapped habitat value for a species. When the proportional impact is above the species offset threshold a species offset is required. This test is done for all species mapped at the site. Multiple species offsets will be required if the species offset threshold is exceeded for multiple species.

Where a zone requires species offset(s), the species habitat units for each species in that zone is calculated by the following equation in accordance with the Guidelines:

$$\text{Species habitat units} = \text{extent} \times \text{condition} \times \text{species landscape factor} \times 2, \text{ where the species landscape factor} = 0.5 + (\text{habitat importance score}/2)$$

The species offset amount(s) required is the sum of all species habitat units per zone

Where a zone does not require a species offset, the general habitat units in that zone is calculated by the following equation in accordance with the Guidelines:

$$\text{General habitat units} = \text{extent} \times \text{condition} \times \text{general landscape factor} \times 1.5, \text{ where the general landscape factor} = 0.5 + (\text{strategic biodiversity value score}/2)$$

The general offset amount required is the sum of all general habitat units per zone.

Native vegetation to be removed

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
2-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
3-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
4-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
5-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
6-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
7-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
8-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
9-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.812		0.004	General
10-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.788		0.004	General
11-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.804		0.004	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
12-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
13-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
14-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
15-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.796		0.004	General
16-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
17-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.850		0.004	General
18-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.850		0.004	General
19-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.850		0.004	General
20-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.820		0.004	General
21-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
22-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.828		0.004	General
23-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.850		0.004	General
24-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.836		0.004	General
25-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.845		0.004	General
26-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.850		0.004	General
27-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.850		0.004	General
28-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
29-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.779		0.004	General
30-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.776		0.004	General
31-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.783		0.004	General
32-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
33-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
34-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
35-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
36-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.797		0.004	General
37-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
38-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
39-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
40-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.793		0.004	General
41-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.786		0.004	General
42-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
43-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
44-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
45-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.790		0.004	General
46-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.772		0.004	General
47-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
48-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.775		0.004	General
49-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.789		0.004	General
50-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
51-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
52-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.792		0.004	General
53-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
54-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
55-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
56-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.782		0.004	General
57-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.779		0.004	General
58-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.799		0.004	General
59-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
60-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.772		0.004	General
61-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.796		0.004	General
62-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
63-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
64-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
65-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.786		0.004	General
66-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
67-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.770		0.004	General
68-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
69-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.798		0.004	General
70-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.803		0.004	General
71-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.801		0.004	General
72-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
73-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.802		0.004	General
74-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.814		0.004	General
75-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
76-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.782		0.004	General
77-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.806		0.004	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
78-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.822		0.004	General
79-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
80-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
81-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
82-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
83-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
84-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.783		0.004	General
85-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.781		0.004	General
86-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
87-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
88-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
89-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
90-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
91-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
92-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
93-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
94-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.786		0.004	General
95-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.788		0.004	General
96-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
97-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
98-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
99-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.808		0.004	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
100-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.805		0.004	General
101-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
102-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.806		0.004	General
103-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.781		0.004	General
104-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
105-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
106-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.807		0.004	General
107-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.804		0.004	General
108-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.808		0.004	General
109-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
110-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
111-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
112-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
113-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
114-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.788		0.004	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
115-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.780		0.004	General
116-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
117-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.783		0.004	General
118-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.785		0.004	General
119-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
120-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
121-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.802		0.004	General
122-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
123-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
124-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.803		0.004	General
125-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.799		0.004	General
126-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
127-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
128-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
129-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
130-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
131-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
132-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
133-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
134-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
135-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
136-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.796		0.004	General
137-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
138-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
139-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
140-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
141-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.805		0.004	General
142-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
143-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.801		0.004	General
144-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
145-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
146-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
147-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
148-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
149-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
150-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
151-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
152-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
153-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.803		0.004	General
154-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.806		0.004	General
155-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
156-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
157-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
158-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
159-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.808		0.004	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
160-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
161-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
162-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
163-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.804		0.004	General
164-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.807		0.004	General
165-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
166-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.800		0.004	General
167-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.805		0.004	General
168-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.807		0.004	General
169-A	Patch	msb_0103	Depleted	0	no	0.160	0.019	0.019	0.810		0.004	General
170-A	Patch	msb_0103	Depleted	0	no	0.160	0.040	0.040	0.770		0.009	General
171-A	Patch	msb_0103	Depleted	0	no	0.160	0.003	0.003	0.850		0.001	General
172-A	Patch	msb_0103	Depleted	0	no	0.160	0.001	0.001	0.780		0.000	General

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## Appendix 2: Information about impacts to rare or threatened species' habitats on site

This table lists all rare or threatened species' habitats mapped at the site.

Species common name	Species scientific name	Species number	Conservation status	Group	Habitat impacted	% habitat value affected
Slender Love-grass	<i>Eragrostis exigua</i>	505252	Endangered	Dispersed	Habitat importance map	0.0011
Native Madder	<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	505775	Vulnerable	Dispersed	Habitat importance map	0.0003
Lagoon Nightshade	<i>Solanum lacunarium</i>	503180	Vulnerable	Dispersed	Habitat importance map	0.0003
Dwarf Flat-sedge	<i>Cyperus pygmaeus</i>	500929	Vulnerable	Dispersed	Habitat importance map	0.0002
Plains Spurge	<i>Euphorbia planiticola</i>	501333	Endangered	Dispersed	Habitat importance map	0.0002
Soda Bush	<i>Neobassia proceriflora</i>	503881	Endangered	Dispersed	Habitat importance map	0.0002
Poverty Bush	<i>Sclerolaena intricata</i>	503074	Vulnerable	Dispersed	Habitat importance map	0.0002
Hairy Darling-pea	<i>Swainsona greyana</i>	503316	Endangered	Dispersed	Habitat importance map	0.0002
Twiggy Emu-bush	<i>Eremophila polyclada</i>	501206	Vulnerable	Dispersed	Habitat importance map	0.0002
Bignonia Emu-bush	<i>Eremophila bignoniiflora</i>	501198	Vulnerable	Dispersed	Habitat importance map	0.0002
Small Pop Saltbush	<i>Atriplex spongiosa</i>	503700	Endangered	Dispersed	Habitat importance map	0.0002
Narrow-leaf Emu-bush	<i>Eremophila sturtii</i>	501208	Endangered	Dispersed	Habitat importance map	0.0001
Black-fruit Daisy	<i>Brachyscome melanocarpa</i> subsp. <i>melanocarpa</i>	500464	Endangered	Dispersed	Habitat importance map	0.0001
Kneed Swainson-pea	<i>Swainsona reticulata</i>	504945	Vulnerable	Dispersed	Habitat importance map	0.0001
Desert Glasswort	<i>Tecticomia triandra</i>	502397	Rare	Dispersed	Habitat importance map	0.0001
Darling Lily	<i>Crinum flaccidum</i>	500874	Vulnerable	Dispersed	Habitat importance map	0.0001
Baloo	<i>Atriplex lindleyi</i> subsp. <i>conduplicata</i>	504231	Rare	Dispersed	Habitat importance map	0.0001
Veined Peppergrass	<i>Lepidium phlebopetalum</i>	501907	Endangered	Dispersed	Habitat importance map	0.0001
Green Copperburr	<i>Sclerolaena decurrens</i>	503071	Vulnerable	Dispersed	Habitat importance map	0.0001

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Samphire Skink	<i>Morethia adelaidensis</i>	12525	Endangered	Dispersed	Habitat importance map	0.0001
Sandhill Spurge	<i>Phyllanthus lacunellus</i>	503924	Rare	Dispersed	Habitat importance map	0.0001
Lagoon Spurge	<i>Phyllanthus lacunarius</i>	502502	Vulnerable	Dispersed	Habitat importance map	0.0001
Jerry-jerry	<i>Ammannia multiflora</i>	500202	Vulnerable	Dispersed	Habitat importance map	0.0001
Mallee Cucumber	<i>Austrobryonia micrantha</i>	502234	Rare	Dispersed	Habitat importance map	0.0001
Spiny-fruit Saltbush	<i>Atriplex spinibractea</i>	504608	Endangered	Dispersed	Habitat importance map	0.0001
Silver Saltbush	<i>Atriplex rhagodioides</i>	500331	Vulnerable	Dispersed	Habitat importance map	0.0001
Woolly Minuria	<i>Minuria denticulata</i>	502200	Rare	Dispersed	Habitat importance map	0.0001
Yakka Grass	<i>Sporobolus caroli</i>	503227	Rare	Dispersed	Habitat importance map	0.0001
Goat Head	<i>Malacocera tricomis</i>	502117	Rare	Dispersed	Habitat importance map	0.0001
Smooth Elachanth	<i>Elachanthus glaber</i>	503702	Rare	Dispersed	Habitat importance map	0.0001
Spreading Emu-bush	<i>Eremophila divaricata</i> subsp. <i>divaricata</i>	501200	Rare	Dispersed	Habitat importance map	0.0001
Spreading Saltbush	<i>Atriplex limbata</i>	500322	Vulnerable	Dispersed	Habitat importance map	0.0001
Spotted Emu-bush	<i>Eremophila maculata</i> subsp. <i>maculata</i>	501204	Rare	Dispersed	Habitat importance map	0.0001
Pop Saltbush	<i>Atriplex holocarpa</i>	500333	Vulnerable	Dispersed	Habitat importance map	0.0001
Spreading Angianthus	<i>Angianthus brachypappus</i>	500227	Vulnerable	Dispersed	Habitat importance map	0.0001
Desert Lantern	<i>Abutilon otocarpum</i>	500003	Vulnerable	Dispersed	Habitat importance map	0.0001
Squat Picris	<i>Picris squarrosa</i>	504827	Rare	Dispersed	Habitat importance map	0.0001
Twin-flower Saltbush	<i>Dissocarpus biflorus</i> var. <i>biflorus</i>	501074	Rare	Dispersed	Habitat importance map	0.0001
Pale Plover-daisy	<i>Leiocarpa leptolepis</i>	503782	Endangered	Dispersed	Habitat importance map	0.0001
Bush Minuria	<i>Minuria cunninghamii</i>	502199	Rare	Dispersed	Habitat importance map	0.0001
Leafy Sea-heath	<i>Frankenia foliosa</i>	501373	Rare	Dispersed	Habitat importance map	0.0001
Salt Copperburr	<i>Sclerolaena ventricosa</i>	503083	Endangered	Dispersed	Habitat importance map	0.0000
Woolly Mantle	<i>Eriochlamys behrii</i> s.s.	505666	Rare	Dispersed	Habitat importance map	0.0000

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Flat Spike-sedge	<i>Eleocharis plana</i>	501144	Vulnerable	Dispersed	Habitat importance map	0.0000
Silky Swainson-pea	<i>Swainsona sericea</i>	504946	Vulnerable	Dispersed	Habitat importance map	0.0000
Milkwort Sunray	<i>Rhodanthe polygalifolia</i>	501649	Rare	Dispersed	Habitat importance map	0.0000
Pearl Bluebush	<i>Maireana sedifolia</i>	502113	Rare	Dispersed	Habitat importance map	0.0000
Bristly Sea-heath	<i>Frankenia serpyllifolia</i>	501374	Rare	Dispersed	Habitat importance map	0.0000
Dookie Daisy	<i>Brachyscome gracilis</i>	505494	Vulnerable	Dispersed	Habitat importance map	0.0000
Spear-fruit Copperburr	<i>Sclerolaena patentiuspis</i>	503079	Vulnerable	Dispersed	Habitat importance map	0.0000
Small Water-fire	<i>Bergia trimera</i>	500387	Vulnerable	Dispersed	Habitat importance map	0.0000
Winged New Holland Daisy	<i>Vittadinia pterochaeta</i>	503542	Vulnerable	Dispersed	Habitat importance map	0.0000
Nealie	<i>Acacia loderi</i>	500052	Vulnerable	Dispersed	Habitat importance map	0.0000
Small-leaf Swainson-pea	<i>Swainsona microphylla</i>	503320	Rare	Dispersed	Habitat importance map	0.0000
Twin-leaf Bedstraw	<i>Asperula gemella</i>	500280	Rare	Dispersed	Habitat importance map	0.0000
Yarran	<i>Acacia melvillei</i>	500058	Vulnerable	Dispersed	Habitat importance map	0.0000
Woolly Copperburr	<i>Sclerolaena lanicuspis</i>	503075	Endangered	Dispersed	Habitat importance map	0.0000
Woolly Scurf-pea	<i>Cullen pallidum</i>	502772	Endangered	Dispersed	Habitat importance map	0.0000
Mealy Saltbush	<i>Atriplex pseudocampanulata</i>	500330	Rare	Dispersed	Habitat importance map	0.0000
Purple Love-grass	<i>Eragrostis lacunaria</i>	501190	Vulnerable	Dispersed	Habitat importance map	0.0000
Bramble Wattle	<i>Acacia victoriae subsp. victoriae</i>	500101	Rare	Dispersed	Habitat importance map	0.0000
Coral Saltbush	<i>Atriplex papillata</i>	500327	Rare	Dispersed	Habitat importance map	0.0000
Sand Sida	<i>Sida ammophila</i>	503140	Vulnerable	Dispersed	Habitat importance map	0.0000
Swamp Sheoak	<i>Casuarina obesa</i>	500682	Endangered	Dispersed	Habitat importance map	0.0000
Twiggy Sida	<i>Sida intricata</i>	503143	Vulnerable	Dispersed	Habitat importance map	0.0000
Tough Scurf-pea	<i>Cullen tenax</i>	502776	Endangered	Dispersed	Habitat importance map	0.0000
Long Tails	<i>Ptilotus polystachyus</i>	502830	Endangered	Dispersed	Habitat importance map	0.0000

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Rye Beetle-grass	<i>Tripogon loliformis</i>	503455	Rare	Dispersed	Habitat importance map	0.0000
Dwarf Bitter-cress	<i>Rorippa eustylis</i>	502944	Rare	Dispersed	Habitat importance map	0.0000
Cane Grass	<i>Eragrostis australasica</i>	501184	Vulnerable	Dispersed	Habitat importance map	0.0000
Riverine Flax-lily	<i>Dianella porracea</i>	504266	Vulnerable	Dispersed	Habitat importance map	0.0000
Smooth Minuria	<i>Minuria integerrima</i>	502201	Rare	Dispersed	Habitat importance map	0.0000
White Twin-leaf	<i>Zygophyllum simile</i>	504116	Rare	Dispersed	Habitat importance map	0.0000
Pin Sida	<i>Sida fibulifera</i>	503142	Vulnerable	Dispersed	Habitat importance map	0.0000
Small Monkey-flower	<i>Elacholoma prostrata</i>	502196	Rare	Dispersed	Habitat importance map	0.0000
Slit-wing Bluebush	<i>Maireana georgei</i>	503863	Vulnerable	Dispersed	Habitat importance map	0.0000
Spiny Lignum	<i>Duma horrida subsp. horrida</i>	502230	Rare	Dispersed	Habitat importance map	0.0000
Pointed Saltbush	<i>Atriplex acutibractea subsp. karoniensis</i>	504228	Rare	Dispersed	Habitat importance map	0.0000
Bristly Love-grass	<i>Eragrostis setifolia</i>	501195	Vulnerable	Dispersed	Habitat importance map	0.0000
Burr-daisy	<i>Calotis cymbacantha</i>	500595	Rare	Dispersed	Habitat importance map	0.0000
Round Templetonia	<i>Templetonia egena</i>	503340	Vulnerable	Dispersed	Habitat importance map	0.0000
Wilga	<i>Geijera parviflora</i>	501419	Endangered	Dispersed	Habitat importance map	0.0000
Small-flower Tobacco	<i>Nicotiana goodspeedii</i>	502273	Rare	Dispersed	Habitat importance map	0.0000
Branching Groundsel	<i>Senecio cunninghamii var. cunninghamii</i>	503104	Rare	Dispersed	Habitat importance map	0.0000
Spiny Goosefoot	<i>Rhagodia ulcina</i>	502931	Rare	Dispersed	Habitat importance map	0.0000
Sarcozona	<i>Sarcozona praecox</i>	503014	Rare	Dispersed	Habitat importance map	0.0000
Slender Club-sedge	<i>Isolepis congrua</i>	501773	Vulnerable	Dispersed	Habitat importance map	0.0000
Small Elachanth	<i>Elachanthus pusillus</i>	501135	Rare	Dispersed	Habitat importance map	0.0000
Twining Purslane	<i>Calandrinia volubilis</i>	500556	Rare	Dispersed	Habitat importance map	0.0000
Mallee Tussock-grass	<i>Poa lowanensis</i>	503890	Rare	Dispersed	Habitat importance map	0.0000
Dwarf Swainson-pea	<i>Swainsona phacoides</i>	503323	Endangered	Dispersed	Habitat importance map	0.0000

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Scrambling Twin-leaf	<i>Zygophyllum angustifolium</i>	504117	Rare	Dispersed	Habitat importance map	0.0000
Dwarf Brooklime	<i>Gratiola pumilo</i>	503753	Rare	Dispersed	Habitat importance map	0.0000
Umbrella Wattle	<i>Acacia oswaldii</i>	500070	Vulnerable	Dispersed	Habitat importance map	0.0000
Waterbush	<i>Myoporum montanum</i>	502240	Rare	Dispersed	Habitat importance map	0.0000
Prickly Cudweed	<i>Stuartina hamata</i>	503299	Rare	Dispersed	Habitat importance map	0.0000
Mallee Annual-bluebell	<i>Wahlenbergia tumidifruca</i>	504060	Rare	Dispersed	Habitat importance map	0.0000
Sand Brome	<i>Bromus arenarius</i>	500497	Rare	Dispersed	Habitat importance map	0.0000
Spear-grass	<i>Austrostipa trichophylla</i>	504512	Rare	Dispersed	Habitat importance map	0.0000
Port Lincoln Snake	<i>Parasuta spectabilis</i>	12813	Vulnerable	Dispersed	Habitat importance map	0.0000
Three-wing Bluebush	<i>Maireana triptera</i>	502115	Rare	Dispersed	Habitat importance map	0.0000
Hooded Scaly-foot	<i>Pygopus schraderi</i>	12176	Critically endangered	Dispersed	Habitat importance map	0.0000
Saltbush Striped Skink	<i>Ctenotus olympicus</i>	19008	Critically endangered	Dispersed	Habitat importance map	0.0000
Desert Jasmine	<i>Jasminum didymum subsp. lineare</i>	501801	Vulnerable	Dispersed	Habitat importance map	0.0000

**Habitat group**

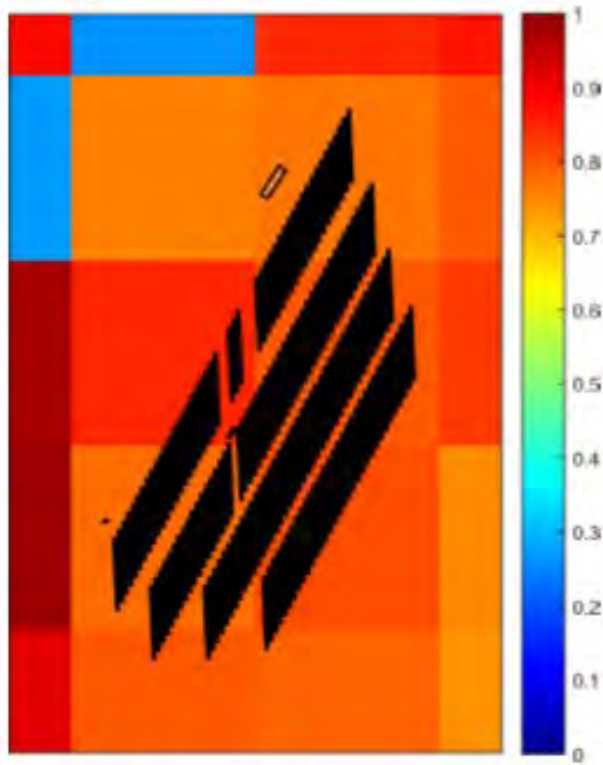
- Highly localised habitat means there is 2000 hectares or less mapped habitat for the species
- Dispersed habitat means there is more than 2000 hectares of mapped habitat for the species

**Habitat impacted**

- Habitat importance maps are the maps defined in the Guidelines that include all the mapped habitat for a rare or threatened species
- Top ranking maps are the maps defined in the Guidelines that depict the important areas of a dispersed species habitat, developed from the highest habitat importance scores in dispersed species habitat maps and selected VBA records
- Selected VBA record is an area in Victoria that represents a large population, roosting or breeding site etc.

### Appendix 3 – Images of mapped native vegetation

#### 2. Strategic biodiversity values map



#### 3. Aerial photograph showing mapped native vegetation



4. Map of the property in context



↑ North

0 2 4  
x100 metres

Yellow boundaries denote areas of proposed native vegetation removal.

## Appendix B: Table 4 of the Guidelines

Number	Application requirement
1	<p>Information about the native vegetation to be removed, including:</p> <ul style="list-style-type: none"> <li>• The assessment pathway and reason for the assessment pathway. This includes the location category of the native vegetation to be removed.</li> <li>• A description of the native vegetation to be removed that includes: <ul style="list-style-type: none"> <li>- whether it is a patch or a scattered tree (or both)</li> <li>- the extent (in hectares)</li> <li>- the number and circumference (in centimetres measured at 1.3 metres above ground level) of any large trees within a patch</li> <li>- the number and circumference (in centimetres measured at 1.3 metres above ground level) of any scattered trees, and whether each tree is small or large</li> <li>- the strategic biodiversity value score</li> <li>- the condition score</li> <li>- if it includes endangered Ecological Vegetation Classes</li> <li>- if it includes sensitive wetland or coastal areas.</li> </ul> </li> <li>• Maps showing the native vegetation and property in context and containing: <ul style="list-style-type: none"> <li>- scale, north point and property boundaries</li> <li>- location of any patches of native vegetation and the number of large trees within the patch proposed to be removed</li> <li>- location of scattered trees proposed to be removed, including their size</li> </ul> </li> <li>• The offset requirement, determined in accordance with section 5 of the Guidelines, that will apply if the native vegetation is approved to be removed.</li> </ul> <p><i>Note: A report from DELWP systems and tools contains information required to address this application requirement.</i></p>
2	<p>Topographic and land information relating to the native vegetation to be removed, showing ridges, crests and hilltops, wetlands and waterways, slopes of more than 20 percent, drainage lines, low lying areas, saline discharge areas, and areas of existing erosion, as appropriate. This may be represented in a map or plan.</p>
3	<p>Recent, dated photographs of the native vegetation to be removed.</p>

Number	Application requirement
4	Details of any other native vegetation approved to be removed, or that was removed without the required approvals, on the same property or on contiguous land in the same ownership as the applicant, in the five year period before the application for a permit is lodged.
5	<p>An avoid and minimise statement. The statement describes any efforts to avoid the removal of, and minimise the impacts on the biodiversity and other values of native vegetation, and how these efforts focussed on areas of native vegetation that have the most value. The statement should include a description of the following:</p> <ul style="list-style-type: none"> <li>• Strategic level planning – any regional or landscape scale strategic planning process that the site has been subject to that avoided and minimised impacts on native vegetation across a region or landscape</li> <li>• Site level planning – how the proposed use or development has been sited or designed to avoid and minimise impacts on native vegetation.</li> <li>• That no feasible opportunities exist to further avoid and minimise impacts on native vegetation without undermining the key objectives of the proposal.</li> </ul>
6	A copy of any Property Vegetation Plan contained within an agreement made pursuant to section 69 of the <i>Conservation, Forests and Lands Act 1987</i> that applies to the native vegetation to be removed.
7	Where the removal of native vegetation is to create defensible space, a written statement explaining why the removal of native vegetation is necessary. This statement must have regard to other available bushfire risk mitigation measures. This statement is not required when the creation of defensible space is in conjunction with an application under the Bushfire Management Overlay.
8	If the application is under Clause 52.16, a statement that explains how the proposal responds to the Native Vegetation Precinct Plan considerations at decision guideline 8.
9	<p>An offset statement providing evidence that an offset that meets the offset requirements for the native vegetation to be removed has been identified, and can be secured in accordance with the Guidelines.</p> <p>A suitable statement includes evidence that the required offset:</p> <ul style="list-style-type: none"> <li>• is available to purchase from a third party, or</li> <li>• will be established as a new offset and has the agreement of the proposed offset provider, or</li> <li>• can be met by a first party offset.</li> </ul>

## Appendix C: Table 5 of the Guidelines

**Table 5: Additional application requirements for applications in the Detailed Assessment Pathway**

Number	Application requirement
10	<p>A site assessment report of the native vegetation to be removed, including:</p> <ul style="list-style-type: none"> <li>• A habitat hectare assessment of any patches of native vegetation, including the condition, extent (in hectares), Ecological Vegetation Class and bioregional conservation status.</li> <li>• The location, number, circumference (in centimetres measured at 1.3 metres above ground level) and species of any large trees within patches.</li> <li>• The location, number, circumference (in centimetres measured at 1.3 metres above ground level) and species of any scattered trees, and whether each tree is small or large.</li> </ul>
11	<p>Information about impacts on rare or threatened species habitat, including:</p> <ul style="list-style-type: none"> <li>• The relevant section of the <i>Habitat importance map</i> for each rare or threatened species requiring a species offset.</li> <li>• For each rare or threatened species that the native vegetation to be removed is habitat for, according to the Habitat importance maps: <ul style="list-style-type: none"> <li>- the species' conservation status</li> <li>- the proportional impact of the removal of native vegetation on the total habitat for that species</li> <li>- whether their habitats are highly localised habitats, dispersed habitats, or important areas of habitat within a dispersed species habitat.</li> </ul> </li> </ul> <p><i>Note: A report from DELWP systems and tools contains information required to address this application requirement.</i></p>

## Appendix D: Offset Strategy

# vegetationlink

Our reference: VLQ-8077-B

Your reference: Yelta

31 May 2022

Damian Wall  
Red-Gum Environmental Consulting Pty Ltd  
damian.wall@red-gum.com.au

Dear Damian

### RE: Quotation for the supply of native vegetation credits

Vegetation Link is an accredited offset provider with the Department of Environment, Land, Water & Planning (DELWP). We offer a specialised brokerage service to enable permit holders and developers to identify suitable native vegetation credits to meet their planning permit offset requirements.

Based on the information you have provided, I understand you require the following native vegetation offset:

Offset type	Vicinity	General habitat units (GHU)	Min. strategic biodiversity value (SBV)	Large trees
General	Mallee CMA	0.687	0.637	0

To meet your offset requirements, you can purchase native vegetation credits from a third party as per the options quoted below<sup>1</sup>. This quotation is valid for 14 days, subject to credit availability and landholder pricing.

#### Option 1: CTA pathway – offset site located in the Mildura Rural City area (approx. 4-6 week turnaround from acceptance of quote)

Cost of native vegetation credits – invoiced by DELWP	\$51,525.00
Transaction fees – invoiced by Vegetation Link	\$1,120.00
Total (ex. GST)	\$52,645.00
Total (inc. GST)	\$57,909.50

#### Option 2: CTA pathway – offset site located in the Swan Hill Rural City area (approx. 4-6 week turnaround from acceptance of quote)

Cost of native vegetation credits – invoiced by DELWP	\$41,220.00
Transaction fees – invoiced by Vegetation Link	\$1,120.00
Total (ex. GST)	\$42,340.00
Total (inc. GST)	\$46,574.00

<sup>1</sup> Note that the transaction fee includes DELWP NVOR transfer and allocation fees and a Vegetation Link fee

Vegetation Link Pty Ltd  
ABN: 92 169 702 032  
www.vegetationlink.com.au

1300 VEG LINK (1300 834 546) | offsets@vegetationlink.com.au | PO Box 10 Castlemaine VIC 3450



### Appendix E: Habitat Hectare assessment

## Vegetation Quality Field Assessment Sheet

Version 1.3 - October 2004

Department of Sustainability and Environment

Site Name/No. Yelta Location Meridian Rd Date 24/11/21  
 Assessor(s) O. wall Map Name/No. \_\_\_\_\_ AMG / MGA \_\_\_\_\_  
 Tenure P. EVC MSB 103 Bioregion MUF

### 'Site Condition Score'

#### Large Trees

Score 0

Category & Description	% Canopy Health*		
	> 70%	30-70%	< 30%
None present	0	0	0
> 0 to 20% of the benchmark number of large trees/ha	3	2	1
> 20% to 40% of the benchmark number of large trees/ha	4	3	2
> 40% to 70% of the benchmark number of large trees/ha	6	5	4
> 70% to 100% of the benchmark number of large trees/ha	8	7	6
≥ the benchmark number of large trees/ha	10	9	8

Large trees are defined by diameter at breast height (dbh) - see EVC benchmark.  
 \* Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

#### Understorey Life forms

LF Code from EVC benchmark	# spp observed / Benchmark spp.	% cover observed / Benchmark % cover	Present (✓)	Modified (✓)
IT	- / 2	- / 5		
MS	- / 3	- / 30		
SS	3 / 5	50 / 25	✓	✓
PS	1 / 1	< 1 / 1	✓	
MH	0 / 5	- / 5	✗	
SH	1 / 5	2 / 10	✓	
MTG	1 / 2	< 1 / 5	✓	
	/	/		
	/	/		
	/	/		
	/	/		
	/	/		
	/	/		
	/	/		
	/	/		

**Present**  
 For life forms with benchmark cover of < 10%, considered 'present' if:  
 • any specimens are observed.  
 For life forms with benchmark cover of ≥ 10%, considered 'present' if:  
 • the life form occupies at least 10% of benchmark cover.

**Modified**  
 (apply only where life form is 'present')  
 For life forms with benchmark cover of < 10%, then considered substantially 'modified' if the life form has either:  
 • < 50% of the benchmark species diversity; or  
 • no reproductively-mature specimens are observed.  
 For life forms with benchmark cover of ≥ 10%, then considered substantially 'modified' if the life form has either:  
 • < 50% of benchmark cover; or  
 • < 50% of benchmark species diversity; or  
 • ≥ 50% of benchmark cover due largely to immature canopy specimens but the cover of reproductively-mature specimens is < 10% of the benchmark cover.

#### Tree Canopy Cover

Score 0

Category & Description	% Canopy Health*		
	> 70%	30-70%	< 30%
< 10% of benchmark cover	0	0	0
< 50% or > 150% of benchmark cover	3	2	1
≥ 50% or ≤ 150% of benchmark cover	5	4	3

Tree canopy is defined as those canopy tree species reaching ≥ 80% of mature height - see EVC benchmark description.  
 \* Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

#### Lack of Weeds

Score 4

Category & Description	'high threat' weeds*		
	None	≤ 50%	> 50%
> 50% cover of weeds	4	2	0
25 - 50% cover of weeds	7	6	4
5 - 25% cover of weeds	11	9	7
< 5% cover of weeds**	15	13	11

\* proportion of weed cover due to 'high threat' weeds - see EVC benchmark for guide.  
 'High threat' weed species are defined as those introduced species (including non-indigenous 'natives') with the ability to out-compete and substantially reduce one or more indigenous life forms in the longer term assuming on-going current site characteristics and disturbance regime.  
 The EVC benchmark lists typical weed species for the EVC in the bioregion and provides an estimate of their 'invasiveness' and 'impact'. In general, those weed species considered to have a *high impact* are considered *high threat* regardless of their invasiveness.  
 \*\* if total weed cover is negligible (<1%) and high threat weed species are present then score '13'.

#### Understorey

Score 5

Category & Description	Score
All strata and Life forms effectively absent	0
Up to 50% of life forms present	5
≥ 50% to 90% of Life forms present	10
• of those present, ≥ 50% substantially modified	15
• of those present, < 50% substantially modified	15
≥ 90% of Life forms present	15
• of those present, ≥ 50% substantially modified	20
• of those present, < 50% substantially modified	20
• of those present, none substantially modified	25



**Vegetation Quality Field Assessment Sheet**  
Version 1.3 - October 2004

**Recruitment** Score 0

Category & Description			High diversity* <sup>o</sup>	Low diversity* <sup>o</sup>
No evidence of a recruitment 'cohort' <sup>+</sup>	within EVC not driven by episodic events		0	0
	within EVC driven by episodic events <sup>^</sup>	clear evidence of appropriate episodic event	0	0
		no clear evidence of appropriate episodic event	5	5
Evidence of at least one recruitment 'cohort' in at least one life-form	proportion of native woody species present that have adequate recruitment <sup>o</sup>	< 30%	3	1
		30 - 70%	6	3
		≥ 70%	10	5

<sup>+</sup> 'cohort' refers to a group of woody plants established in a single episode (can include suppressed canopy species individuals).  
<sup>^</sup> refer to EVC benchmark for clarification.  
<sup>o</sup> treat multiple eucalypt canopy species as one species.  
<sup>\*</sup> high diversity defined as ≥ 50% of benchmark woody species diversity.

**Organic Litter** Score 0

Category & Description	Dominated by native organic litter	Dominated by non-native organic litter
< 10% of benchmark cover	0	0
< 50% or > 150% of benchmark cover	3	2
≥ 50% or ≤ 150% of benchmark cover	5	4

**Species Recruitment**

Woody species recorded in habitat zone	Adequate Recruitment
Eucalypt canopy (combined species)	✓
number of woody spp. in EVC benchmark (SS and taller)	

**Logs** Score 0

Category & Description	Large logs present*	Large logs absent*
< 10% of benchmark length	0	0
< 50% of benchmark length	3	2
≥ 50% of benchmark length	5	4

Large logs defined as those with diameter ≥ 0.5 of benchmark large tree dbh.  
<sup>\*</sup> present if large log length is ≥ 25% of EVC benchmark log length.  
<sup>#</sup> absent if large log length is < 25% of EVC benchmark log length.

**'Landscape Context Score'**

**Patch Size** Score 2

Category & Description	Score
< 2 ha	1
Between 2 and 5 ha	2
Between 5 and 10 ha	4
Between 10 and 20 ha	6
≥ 20 ha, but 'significantly disturbed' <sup>*</sup>	8
≥ 20 ha, but not 'significantly disturbed' <sup>*</sup>	10

<sup>\*</sup> 'significantly disturbed' defined as per RFA 'Old Growth' analyses eg. roading, coupes, grazing etc. - effectively most patches within fragmented landscapes.

**Distance to Core Area** Score 1

Distance	Core Area not significantly disturbed*	Core Area significantly disturbed*
> 5 km	0	0
1 to 5 km	2	1
< 1 km	4	3
contiguous	5	4

<sup>\*</sup> defined as per RFA 'Old Growth' analyses.

**Neighbourhood** Score 4

Radius from site	% Native vegetation <sup>*</sup>	Weighting	Score
100 m	60	0.03	2.4
1 km	60	0.04	2.4
5 km	50	0.03	1.5
subtract 2 if the neighbourhood is 'significantly disturbed'			-2
<b>Add Values and 'round-off'</b>			<b>4</b>

<sup>\*</sup> to nearest 20%.  
 Multiply % native vegetation x Weighting for each radius from the zone (eg. 40% x 0.03 = 1.2); then add values to obtain final Neighbourhood Value.

Final Habitat Score											
Component	'Site Condition Score'							'Landscape Context Score'			Total
	Large Trees	Tree Canopy Cover	Lack of Weeds	Understorey	Recruitment	Organic Litter	Logs	Patch Size	Neighbourhood	Distance to Core Area	
<b>Score</b>	0	0	4	5	0	0	0	2	4	1	<b>16</b>