



NATIVE VEGETATION CLEARANCE ASSESSMENT



**2756 HOG BAY ROAD
PELICAN LAGOON
KANGAROO ISLAND**

20 OCTOBER 2022



BOTANICAL ENIGMERASE

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This report was researched and prepared by



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in accordance with the agreement between, on behalf of and for the exclusive use of

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Pelican Lagoon Kangaroo Island

[REDACTED]

Michelle Haby is the only Native Vegetation Council accredited consultant on Kangaroo Island specialising on Kangaroo Island flora, accredited to prepare reports for clearance consent under Section 28 of the *Native Vegetation Act 1991* and applications made under one of the *Native Vegetation Regulations 2017*.

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1.0 APPLICATION DETAILS

Applicant	
Representative	
Address	
Telephone	
Mobile Telephone	
Email	

Property

Owner	
Local Government Area	Kangaroo Island
Hundred	Dudley
Allotment	2
Deposit Plan	D31319
Certificate of Title	CT5090/820
Location	2756 Hog Bay Road Pelican Lagoon Kangaroo Island

Inspection

Accredited Consultant	Michelle Haby
Bushland Assessment	17 April 2020

Clearance Proposal

	Compliance	Maintenance
Area/trees (ha)	0.25	1.82
Purpose	Glamping Sites	Maintain cleared areas
Relevant Regulations/Act	Reg 12(33)	Act
Contravenes Principle of Clearance	b	b
Level of Risk	3	4
Proposed SEB	Payment to Fund	

Flora

Native Species	17
Significant Species	0
Introduced Species	9
Declared Species	3

Fauna

Significant Species	4
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2.0 BACKGROUND

2.1 Purpose

Mr Adam Linnett is proposing to undertake two activities on his property at 2756 Hog Bay Road Pelican Lagoon Kangaroo Island, Figure 1, as follows-

1. **Compliance-** Obtain retrospective native vegetation clearance approval for two Glamping Tent Sites; and
2. **Maintenance-** Obtain native vegetation clearance approval to continue to maintain the existing cleared areas on the property.



Figure 1- 2756 Hog Bay Road Pelican Lagoon

2.2 Background

The property at 2756 Hog Bay Road Pelican Lagoon Kangaroo Island was cleared for agricultural purposes, mainly sheep, over 80 years ago. The property was annually burnt, and Lucerne was grown in the paddock running parallel to the Pennington Bay Road. Pigs were also farmed on the property previously.

The property belonged to the current owners (Mr Adam Linnett) grandmother and has been in the family ever since. The property has not been grazed by the current owner who obtained the property from his uncle.

After the agriculture practices ceased, the native vegetation began to regenerate with coloniser species such as *Adriana quadripartita*, but regular cleaning up of areas by the previous generation and current



NatureMaps identifies three possible native vegetation communities, KI 0204, KI 2001 and SE 0026, Figure 3.

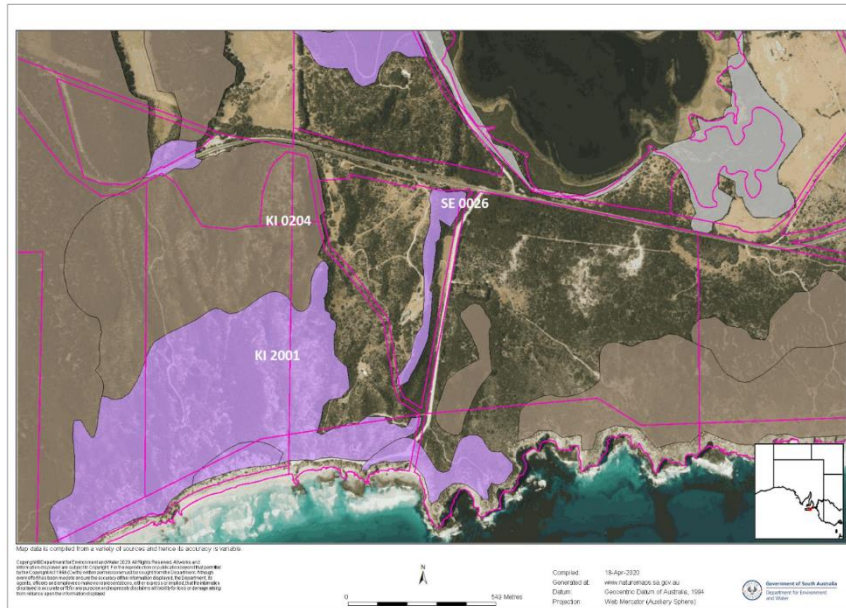


Figure 3- Possible Native Vegetation Communities

No Nationally Threatened or State Listed plant species have been recorded on the property or along the adjoining road reserves.

Four significant terrestrial fauna species have been recorded within 5 km of the property being, Echidna, Southern Brown Bandicoot, Common Brushtail Possum and Rosenberg's Goanna.

The Bushland Assessment undertaken on 17 April 2020 determined the following, Figure 4-

- Location of the proposed Glamping Tent Sites; and
- Measured the clearance undertaken subject to the NVC Enforcement Notice

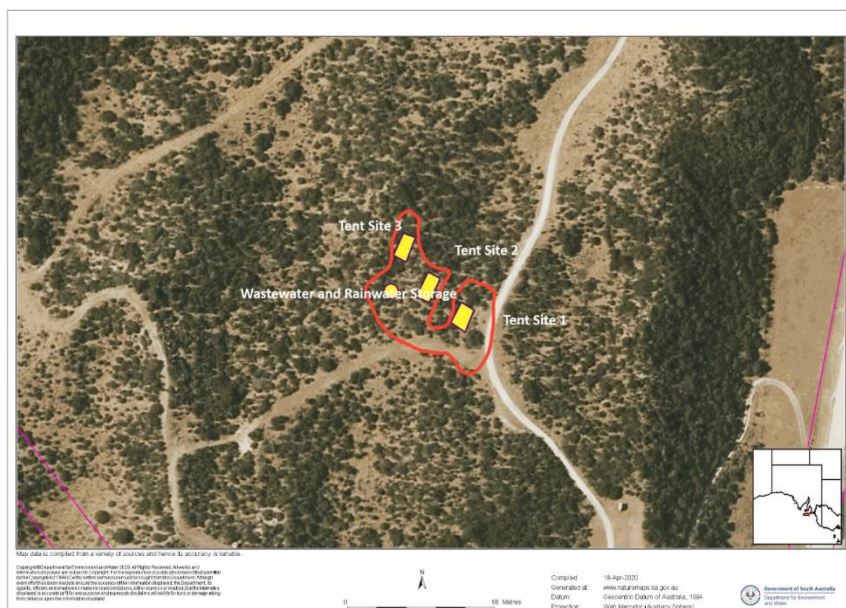


Figure 4- Native Vegetation Clearance



Based on the information provided by Mr Adam Linnett and the site inspection undertaken as part of the Bushland Assessment it is estimated 50% of the area around Tent Site 1 and 100% of the area around Tent Sites 2 has been cleared. This is equivalent to 1,642m²

2.4 Approvals

Mr Adam Linnett lodged a Development Application on 27 December 2019 for the three Glamping Tent Sites being DA 520/L007/20. This application has now been downgraded to two sites. The CFS have advised that an Asset Protection Zone of up to 30m needs to be established around the tent sites (Figure 5).

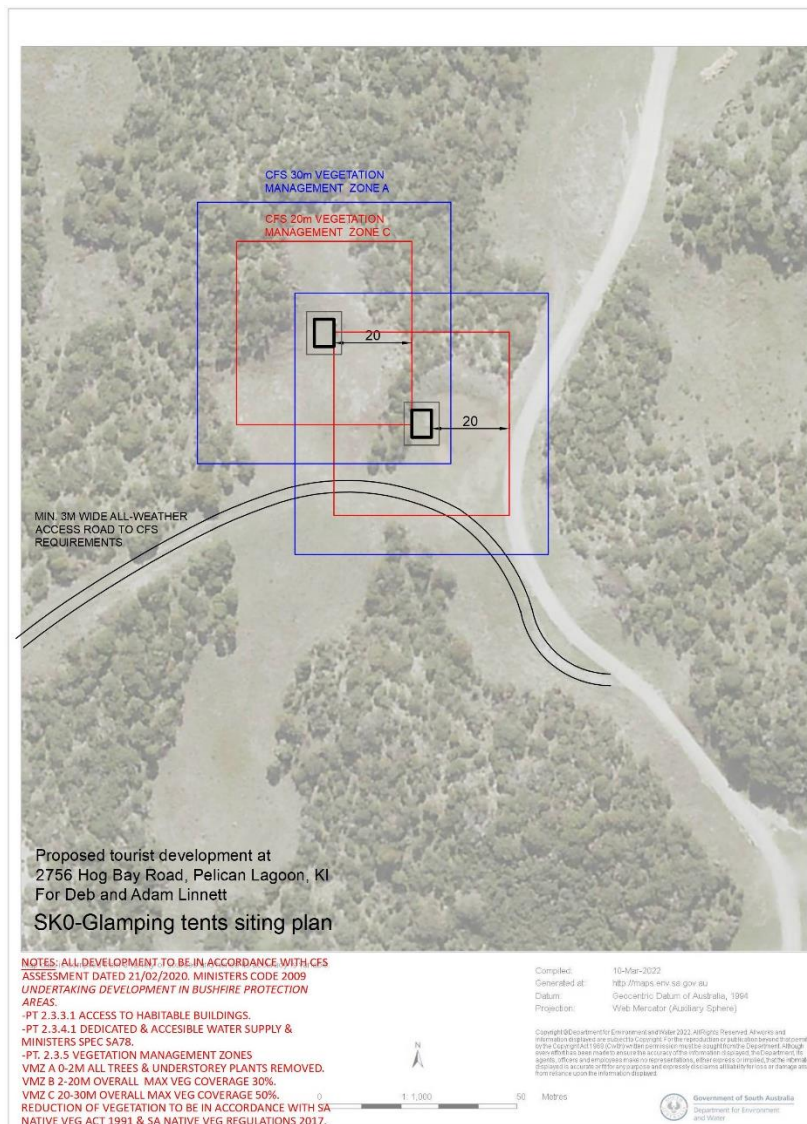


Figure 5- CFS Asset Protection Zones

Mr Adam Linnett is seeking NVC approval for-

- Full clearance around the two Glamping Tent Sites inclusive of CFS requirements; and
- Approval to maintain the existing cleared areas on the property.



3.0 METHOD

3.1 Flora Assessment

The native vegetation within Allotment 2 Hundred of Dudley was surveyed on 17 April 2020. The flora was assessed using standard NVC assessment techniques including a Ramble Survey as follows-

- Native Vegetation assessed near the existing clearance areas to determine what may have occurred in the area prior to clearance;
- A complete species list of all native and introduced plant species was produced for the area surveyed;
- Nationally Threatened, State Listed or Regionally Significant plant species populations were identified, and their location recorded with a hand-held GPS to an accuracy of <5m;
- Proclaimed introduced plant species populations were identified and their location recorded with a hand-held GPS to an accuracy of <5m;
- Survey data relating to records of Nationally Threatened, State Listed or Regionally Significant plant species was recorded, following BDBSA Minimum Data Standards, and provided to BDBSA for uploading;
- Photographs of clearance areas, proposed clearance areas, general vegetation and flora and fauna of interest.

Appendix 3 contains the flora list added to the Bushland Assessment Spreadsheet.

3.2 Fauna Assessment

The potential terrestrial fauna to occur on the property was determined utilising the following-

1. Fauna recorded within 5km of the area; and
2. Observations of fauna including, tracks and traces, while undertaking the flora assessment.

The comprehensive list from above was then added to the Bushland Assessment Spreadsheet, Appendix 4.



4.0 ASSESSMENT OUTCOMES

4.1 Vegetation Assessment

4.1.1 General Description

The native vegetation on 2756 Hog Bay Road Pelican Lagoon Kangaroo Island consists of regenerating low coastal shrubland on very sandy soil. The Bushland Assessment identified the vegetation community as KI 2001.

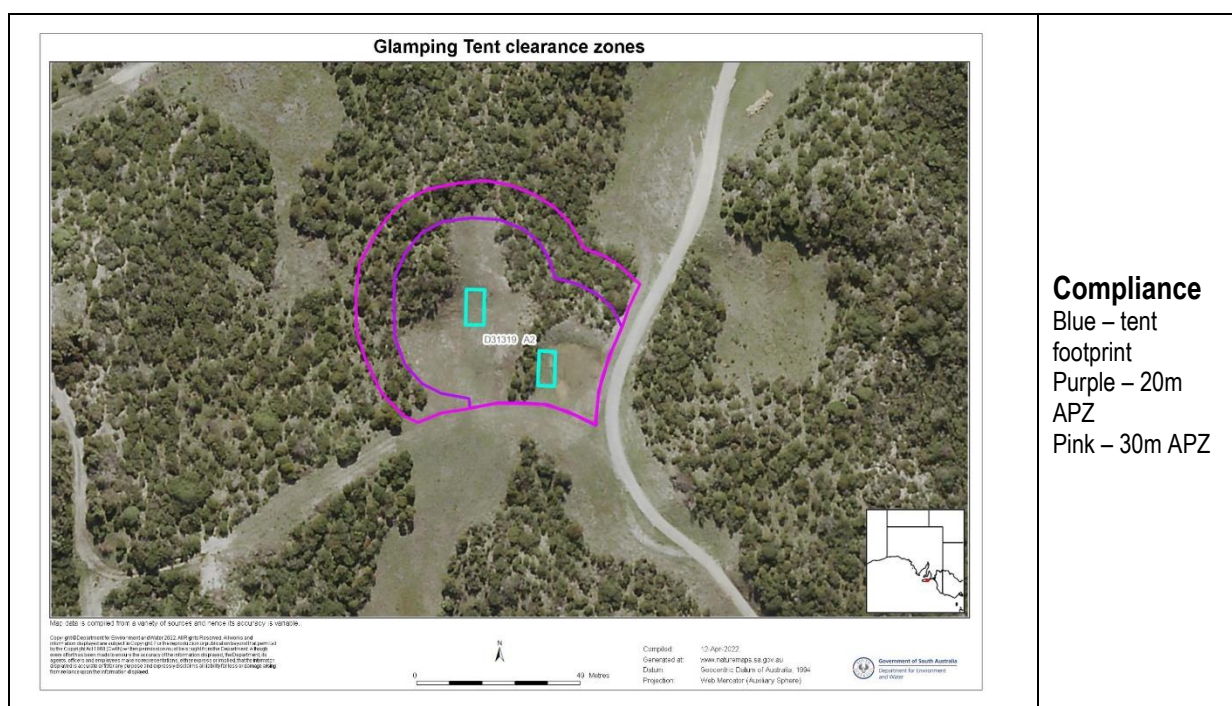
The Bushland Assessment undertaken on 17 April 2020 focused on obtaining information on the native vegetation that occurred at the tent sites prior to the recent clearance subject to the Enforcement Notice and general information on the vegetation on the property.

No significant plant species were recorded as part of the Bushland Assessment undertaken on 17 April 2020.

4.1.2 Vegetation Impacted

The areas of proposed clearance have been determined as follows-

1. **Compliance-** CFS require a 20m Asset Protection Zone B (70% clearance) plus a further 30m Asset Protection Zone C (50% clearance) around each of the Glamping Tent sites (Figure 6).
2. **Maintenance-** The property owner has advised the areas proposed to be maintained as cleared land including existing tracks (Figure 6).



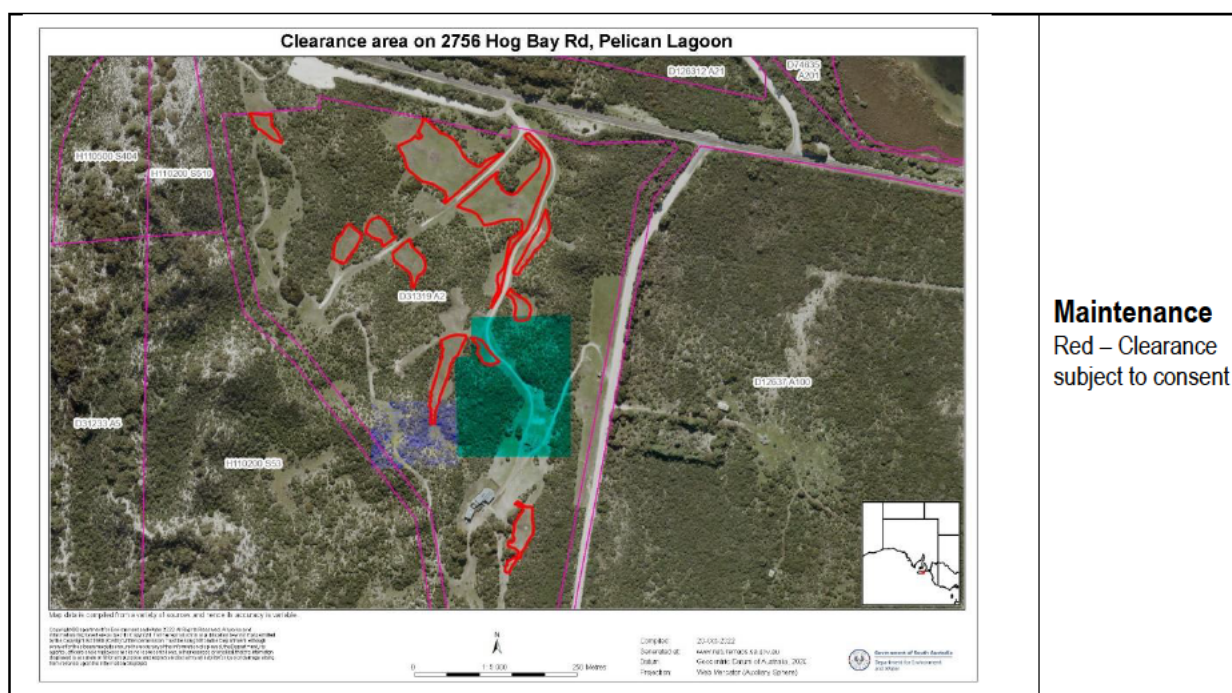


Figure 6- Clearance Areas

Table 1 provides a summary of the vegetation associates for 2756 Hog Bay Road Pelican Lagoon Kangaroo Island.

	Compliance	Maintenance
Native Vegetation Community	KI 2001	
Significant Communities	0	
Significant Plant Species	0	
Significant Fauna Species	4	
Threats	Human Impacts and Weed invasion	
Clearance Area (ha)	0.25	1.82
Ecosystem Score	1	1
Threatened Flora Score	0	0
Threatened Fauna Score	0.1	0.1
Unit Biodiversity Score	17.47	14.10
Total Biodiversity Score	4.31	25.67

Table 1- Vegetation Associates to be Impacted

Appendix 1 provides relevant photographs.

4.1.3 Proposed Impact

The calculated clearance areas required are as follows-

Compliance-	0.25ha
Maintenance-	1.82ha



4.2 Regulation 8(9) “Regrowth” of the *Native Vegetation Regulations 2017*

Table 2 is the assessment of the proposed Maintenance of the clearance areas under Regulation 8(9).

Clearance on land where vegetation has been lawfully cleared within the past 5 years; and	The clearance areas have been maintained as cleared on an irregular basis
Clearance that is necessary to maintain the land for the purpose of which it has been used during the past 5 years; and	The property was originally used for grazing purposes and the current owner ceased this use when commenced ownership.
Clearance of vegetation limited to parts of plants or plants that have grown or regrown in the past 5 years	The clearance is limited to previously cleared areas

Table 2- Regulation 8(9) Assessment

4.3 Regulation 11(24) “Maintenance of Existing Agriculture, Forestry or Farming” of the *Native Vegetation Regulations 2017*

Table 3 is the assessment of the proposed Maintenance of the clearance areas under Regulation 11(24).

Clearance undertaken in compliance with NVC Guidelines for the Maintenance of Existing Agriculture, Forestry or Farming.	The clearance areas have been maintained in order to use the land
--	---

Table 3- Regulation 11(24) Assessment

4.4 Regulation 12(33) “New Dwelling or Building” of the *Native Vegetation Regulations 2017*

Table 4 is the assessment of the proposed Compliance and Future clearance under Regulation 12(33).

Clearance for a new building, dwelling or ancillary development provided that any relevant consent has been provided under the <i>Development Act 1993</i>	The Glamping Tents can be described as Dwellings A Development Application was lodged for three Glamping Tents, (now varied to two Glamping Tents) under the compliance section of this report
--	--

Table 4- Regulation 12(33) Assessment

4.4.1 Risk Assessment

Table 5 undertakes a Risk Assessment of the proposed clearances.

	Compliance	Maintenance
Total Biodiversity Score	4.31	25.67
Clearance Area (ha)	0.25	1.82
Seriously at variance to Clearance Principle	b	b
Risk Level	3	4

Table 5- Risk Assessment



4.4.2 Area of Impact

Table 6 provides the clearance areas for each component of this report.

	Compliance	Maintenance
Clearance Area (ha)	0.25	1.82

Table 6- Area of Impact

4.4.3 Mitigation Hierarchy

Avoidance

All clearance, Compliance and Maintenance, will occur in previously maintained clearance areas.

Minimisation

As above

Rehabilitation and Restoration

Areas not previously cleared will be maintained as native vegetation. Some areas that were recently cleared will be allowed to naturally regenerate (Figure 7).

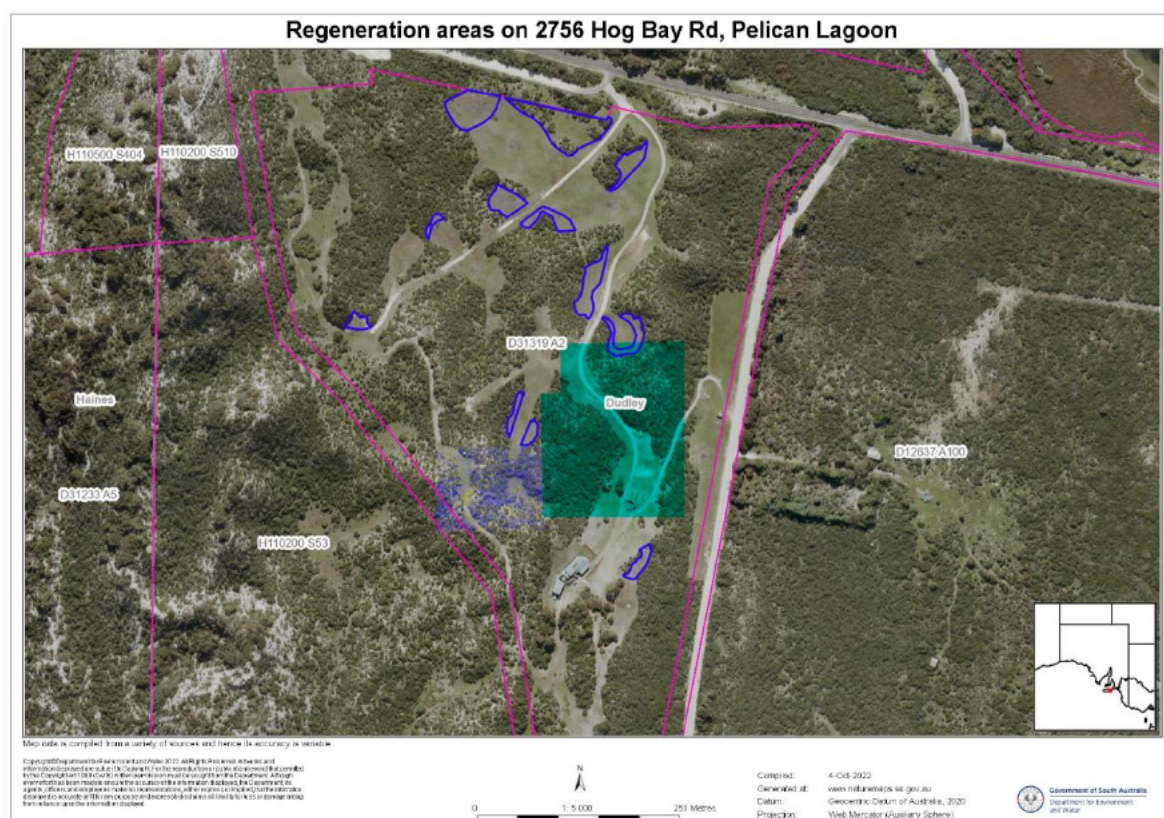


Figure 7- Areas to be regenerated (no clearance).

Blue polygon – Areas to be regenerated (i.e., no clearance);

Offset

Refer Section 5.0.



4.5 Section 28 of the *Native Vegetation Act 1991*

If the clearance for Compliance or Maintenance does not meet the criteria of the Native Vegetation Regulations 2017, then the clearance must be considered under Section 28 of the *Native Vegetation Act 1991*.

4.5.1 Substantially Intact Stratum

A stratum of native vegetation is considered Substantially Intact if-

- the stratum has not been seriously degraded by human activity during the immediately preceding period of 20 years; or
- the only serious degradation of the stratum by human activity during that period has been caused by fire.

To determine if Substantially Intact Stratum exists the following questions are considered.

Does the native vegetation constitute a continuous stratum? Each of the following must be satisfied	
1a	The plants within the stratum of interest are growing at original (pre-European) density for that community; and
1b	Contains a diversity of species similar to original (pre-European) vegetation of that community; and
1c	Is part of a contiguous area of vegetation consisting of the stratum, including on adjacent properties, that is at least one hectare in area and for linear patches, generally greater than 30 m in width. Small, isolated or linear patches of vegetation are subject to significant edge affect and likely to degrade over time; and
1d	Does not contain introduced perennial species occupying greater than 20% cover within that stratum.

AND

Has the vegetation been subject to degradation within the past 20 years? The following must be satisfied	
2a	Any degradation must have been undertaken in compliance with the <i>Native Vegetation Act 1991</i> ; and
2b	Must have occurred within the past 20 years from the date of application; and
2c	Must be a direct result of human activity; and
2d	May include the following: <ul style="list-style-type: none"> • Fragmentation of the area of vegetation • Modifying, destroying or removing vegetation cover or plant species diversity • Changing abiotic (non-living) factors such as water, nutrients or soil which subsequently impacts on native vegetation. This may include, but not limited to altered hydrology, compaction of soil or increased soil nutrient levels; and
2e	Does not include degradation as a result of fire.

To be considered Substantially Intact Stratum the clearance area MUST-

- Meet all the criteria of question 1 (Continuous Yes); and
- Meet none of the criteria of question 2 (Degradation No).

Table 7 provides the Substantially Intact Stratum Assessment for the clearance.



	Compliance	Maintenance
Continuous	No	No
Degradation	Yes	Yes
Substantially Intact	No	No

Table 7- Substantially Intact Stratum Assessment

The native vegetation on 2756 Hog Bay Road Pelican Lagoon Kangaroo Island is not considered Substantially Intact as there has been continual maintenance of the previously cleared areas and the weed invasion is high.

4.5.2 Principles of Clearance

The detailed Native Vegetation Assessment, following, has been undertaken using the Native Vegetation Council Clearance Principles as a basis for determining the significance. This assessment has also been utilised to determine the Risk Assessment, refer Section 4.4.1.

The Appendix contain a copy of the Bushland Assessment Spreadsheets which are available as an attachment in electronic format.

Table 8 provides a summary of the outcomes of the Bushland Assessment undertaken on 17 April 2020. The detailed results of the Bushland Assessment are contained within Appendix 5.

	Compliance	Maintenance
Native Vegetation Community	KI 2001	KI 2001
Benchmark Community	KI 8.3	KI 8.3
Landscape Context Score	1.11	1.11
Vegetation Condition Score	14.31	11.55
Conservation Significance Score	1.10	1.10
Unit Biodiversity Score	17.47	14.10

Table 8- Summary of Bushland Assessment

Plant Species Diversity- Principle a

Table 9 provides the Native Plant Species Diversity Score to determine the variance to the Plant Species Diversity Principle.

	Compliance	Maintenance
Native Plant Species Diversity Score	16	16
Variance to Principle	At	At

Table 9- Plant Species Diversity Assessment

Appendix 3 provides the full list of plant species observed as part of the Bushland Assessment.

Wildlife Habitat- Principle b

The potential fauna to occur at Allotment 2 Hundred of Dudley was determined utilising the following-

1. Fauna recorded within 5km of each site;
2. Observations of fauna including, tracks and traces, while undertaking the flora assessment.

The fauna species list, from the above, was then added to the Bushland Assessment Spreadsheets, Appendix 4.



Table 10 provides the Threatened Fauna Score and Unit Biodiversity Score to determine the variance to the Wildlife Habitat Principle.

	Compliance	Maintenance
Threatened Fauna Score	0.1	0.1
Unit Biodiversity Score	17.47	14.10
Variance to Principle	Seriously	Seriously

Table 10- Wildlife Habitat Assessment

Rare Plant Species- Principle c

Table 11 provides the significant native plant species observed as part of the Bushland Assessment undertaken on 17 April 2020.

Species	Conservation Status	
	AUS	SA

Table 11- Significant Native Plant Species Recorded

Table 12 provides the Threatened Flora Score to determine the variance to the Rare Plant Species Principle.

	Compliance	Maintenance
Threatened Flora Score	0	0
Variance to Principle	Not	Not

Table 12- Rare Plant Assessment

Appendix 3 provides the full list of all native plant species recorded as part of the Bushland Assessment.

Rare Plant Communities-Principle d

The Bushland Assessment identified one native vegetation community, Table 13.

Data	Bushland Assessments Kangaroo Island Floristic Vegetation Mapping NatureMaps		
	Willoughby, N, Oppermann, A., Innes, R.W. (2001) Provisional List Of Threatened Ecosystems Of South Australia (DEH 2009)		
ID	Description	Status	
		AU	SA
KI 2001	<i>Leucopogon parviflorus</i> , <i>Olearia axillaris</i> , <i>Myoporum insulare</i> , +/- <i>Melaleuca lanceolata</i> , +/- <i>Acacia uncifolia</i> mid open shrubland over <i>Kunzea pomifera</i> , <i>Pomaderris paniculosa</i> ssp. <i>paniculosa</i> , <i>Pimelea flava</i> ssp. <i>flava</i> , <i>Dodonaea viscosa</i> ssp. <i>angustissima</i> shrubs		

Table 13- Native Vegetation Communities Recorded



Table 14 provides the native vegetation community at each site to determine the variance to the Rare Plant Communities Principle.

	Compliance	Maintenance
Vegetation Community	KI 2001	KI 2001
EPBC Act Threshold		
AUS Status		
SA Status		
Variance to Principle	Not	Not

Table 14- Native Vegetation Community Assessment

Remnancy- Principle e

Table 15 provides the Environmental Association Remnancy data and Total Biodiversity Score to determine the variance to the Remnancy Principle.

	Compliance	Maintenance
IBRA Association	Gantheaume	Gantheaume
Remnancy	88%	88%
Total Biodiversity Score	4.31	25.67
Variance to Principle	Not	Not

Table 15- Remnancy Assessment

Wetland- Principle f

The definition of a wetland, for the purpose of this principle is-

- land permanently or temporarily underwater or waterlogged that must have surface water or waterlogging of sufficient frequency and/or duration to effect the biota; and/or
- if the area is defined on 1:50,000 series topographic map as either a perennial or intermittent lake or land subject to inundation.

No wetland was observed during the Bushland Assessment undertaken on 17 April 2020

Amenity- Principle g

The Amenity Principle is assessed utilising the following criteria.

1	Location of the trees <ul style="list-style-type: none"> • e.g. near a township, adjacent to a main road or tourist route
2	Cultural or historical values and local community views
3	Number and distribution of trees to be cleared <ul style="list-style-type: none"> • how many trees will be retained? • would removal of the trees change the landscape character?
4	Species and size of trees <ul style="list-style-type: none"> • large trees generally more impressive landscape quality • red gums, because of their size, are often considered of high landscape value
5	Condition and shape <ul style="list-style-type: none"> • trees suffering extensively from dieback are not generally aesthetically pleasing • well-shaped trees may be considered of greater landscape quality.



Table 16 assesses the amenity value of the proposed clearance area to determine the variance to the Amenity Principle.

Location of Trees	The proposed clearance will not modify the character of the area
Cultural Value	No know cultural values
Number and Distribution	Clearance is of previously cleared areas
Species and size	Of no significance
Condition	Highly impacted
Variance to Principle	Not

Table 16- Amenity Assessment

Summary

Table 17 provides a summary of the variance to the Clearance Principles for the proposed clearance on 2756 Hog Bay Road Pelican Lagoon Kangaroo Island.

Compliance

Principle	a	b	c	d	e	f	g
NOT at Variance							
AT Variance							
SERIOUSLY at Variance							

Maintenance

Principle	a	b	c	d	e	f	g
NOT at Variance							
AT Variance							
SERIOUSLY at Variance							

Table 17- Summary of Variance to Clearance Principles



5.0 SIGNIFICANT ENVIRONMENTAL BENEFIT

5.1 SEB Obligation

The SEB Obligation for the proposed clearances on 2756 Hog Bay Road Pelican Lagoon Kangaroo Island has been calculated as follows, Table 18.

	Compliance	Maintenance
Clearance Area (ha)	0.25	1.82
Unit Biodiversity Score	17.47	14.10
Total Biodiversity Score	4.31	25.67
SEB Points Required	4.53	26.95

Table 18- SEB Obligation

5.2 Achieving a SEB

5.2.1 On-Ground SEB

Mr Adam Linnett may wish to utilise an On-ground SEB. Table 19 provides the requirement of an On-ground SEB.

	Compliance	Maintenance
SEB Point Required	4.53	26.95
Equivalent Hectares Required	0.57	3.37

Table 19- SEB On-ground Requirements

5.2.2 Payment to fund

The Payment to the Fund for the Significant Environmental Benefit for the proposed clearances on 2756 Hog Bay Road Pelican Lagoon Kangaroo Island has been calculated as follows, Table 20.

	Compliance	Maintenance
Rainfall (mm)	564	564
Economies of Scale	0.5	0.5
Payment to Fund (ex GST)	\$3,414.51	\$21,141.95
Administration Fee (GST inc)	\$187.80	\$1,162.81

Table 20- Payment to Fund SEB

Mr Adam Linnett has elected to make a "Payment to the Fund".



6.0 EPBC ACT

Environment Protection and Biodiversity Conservation (EPBC) Act 1999 is Commonwealth legislation that protects national environmental matters. Actions that have, or are likely to have, a “significant impact” on a matter of national environmental significance require approval from the Australian Government Minister for the Environment.

6.1 Threatened Ecological Communities

Kangaroo Island has 2 listed nationally threatened ecological communities.

No nationally threatened ecological communities were observed.

6.2 Threatened Plant Species

Kangaroo Island has 18 listed nationally threatened plant species.

No nationally threatened plant species were observed.

6.3 Threatened Fauna Species

Kangaroo Island has 14 listed nationally threatened terrestrial (excluding marine) fauna species.

Two nationally threatened fauna species have been recorded with 5km of Allotment 2 Hundred of Dudley being-

Southern Brown Bandicoot; and
Echidna

6.3.1 Significant Impact Assessment

The Significant Impact Guidelines under the *EPBC Act 1999* provide the Significant Impact Criteria for Critically Endangered and Endangered Species as follows-

An action is likely to have a significant impact on a critically endangered or endangered species if there is a real chance or possibility that it will:

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



The proposed clearances are unlikely to have an impact on the Nationally Threatened fauna as-

- The vegetation is highly degraded;
- Clearance has been occurring on the property previously;
- The upgrade will not impact the fauna in a way determined to be a significant impact; and
- All are very mobile.



7.0 RECOMMENDATION

1. The clearance of 0.25ha for the two Glamping Tent Sites (Compliance), be approved under Regulation 12(33) of the *Native Vegetation Regulations 2017* with a Significant Environmental Benefit.
2. The clearance of 1.82ha for the maintenance of existing cleared areas (Maintenance), be approved under Section 28 of the *Native Vegetation Act 1991* with a Significant Environmental Benefit.
3. Control of the weed species within the maintained cleared areas be conditional on approval of the maintenance of the existing cleared areas.

8.0 BIBLIOGRAPHY

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APPENDIX 1- SITE PHOTOGRAPHS

Compliance



Maintenance





Property Overview



APPENDIX 2- LANDSCAPE CONTEXT SCORE

Bushland Assessment Scoresheets		(Version - 20 July 2022)																				
Block	2756 Hog Bay Rd, Pelican Lagoon	ASSESSOR(S)	Michelle Haby																			
Size of Block (Ha)	23.060	DATE OF ASSESSMENT	17/04/2020																			
Landscapes Region	Kangaroo Island																					
BCM Region	Kangaroo Island																					
IBRA Association	Gantheaume																					
IBRA Subregion	Kangaroo Island																					
Map of the Block (Including the Sites)																						
Landscape Context Scores		<table border="1"> <tr> <td>% native veg. remaining in IBRA Assoc.</td> <td>88</td> </tr> <tr> <td>% native veg. remaining in IBRA subregion</td> <td>52</td> </tr> <tr> <td colspan="2">0 - 10% = 0.05 pts; >10-20% = 0.04 pts; >20-30% = 0.03 pts; >30-60% = 0.02 pts; > 60 = 0 pts</td> </tr> <tr> <td>Score</td> <td>0.02</td> </tr> <tr> <td colspan="2">Score received for both IBRA assoc. and subregion then summed</td> </tr> </table>		% native veg. remaining in IBRA Assoc.	88	% native veg. remaining in IBRA subregion	52	0 - 10% = 0.05 pts; >10-20% = 0.04 pts; >20-30% = 0.03 pts; >30-60% = 0.02 pts; > 60 = 0 pts		Score	0.02	Score received for both IBRA assoc. and subregion then summed										
% native veg. remaining in IBRA Assoc.	88																					
% native veg. remaining in IBRA subregion	52																					
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Score received for both IBRA assoc. and subregion then summed																						
<table border="1"> <tr> <td>Percent Vegetation Cover (5km radius) (%)</td> <td>38</td> </tr> <tr> <td colspan="2">0-5% = 0 pts; >5-10% = 0.02 pts; >10-25% = 0.04 pts; >25-50% = 0.06 pts; >50-75% = 0.03 pt; >75-100% = 0 pts</td> </tr> <tr> <td>Score</td> <td>0.06</td> </tr> </table>	Percent Vegetation Cover (5km radius) (%)	38	0-5% = 0 pts; >5-10% = 0.02 pts; >10-25% = 0.04 pts; >25-50% = 0.06 pts; >50-75% = 0.03 pt; >75-100% = 0 pts		Score	0.06	<table border="1"> <tr> <td>% native veg. protected IBRA Assoc.</td> <td>76</td> </tr> <tr> <td colspan="2">0-10% = 0.03 pts; >10-20% = 0.02 pts; >20-40% = 0.01 pt; >40% = 0</td> </tr> <tr> <td>Score</td> <td>0</td> </tr> </table>		% native veg. protected IBRA Assoc.	76	0-10% = 0.03 pts; >10-20% = 0.02 pts; >20-40% = 0.01 pt; >40% = 0		Score	0								
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Score	0																					
<table border="1"> <tr> <td>Block Shape Cleared perimeter:Area (km/km2)</td> <td></td> </tr> <tr> <td>Cleared Perimeter (m) =</td> <td>933</td> </tr> <tr> <td>Cleared Perimeter to area ratio</td> <td>4.04</td> </tr> <tr> <td colspan="2"><6 = 0.03 pts; 6 to <12 = 0.02 pts; 12 to <18 = 0.01 pt</td> </tr> <tr> <td>Score</td> <td>0.03</td> </tr> </table>	Block Shape Cleared perimeter:Area (km/km2)		Cleared Perimeter (m) =	933	Cleared Perimeter to area ratio	4.04	<6 = 0.03 pts; 6 to <12 = 0.02 pts; 12 to <18 = 0.01 pt		Score	0.03	<table border="1"> <tr> <td colspan="2">Wetland or Riparian Habitat present</td> </tr> <tr> <td>Riparian zone present (Yes/No) = 0.02 pt</td> <td>No</td> </tr> <tr> <td>Swamp/wetland present (Yes/No) = 0.03 pts</td> <td>No</td> </tr> <tr> <td colspan="2">(Swamp/wetland may be +/- riparian zone)</td> </tr> <tr> <td>Score</td> <td>0</td> </tr> </table>		Wetland or Riparian Habitat present		Riparian zone present (Yes/No) = 0.02 pt	No	Swamp/wetland present (Yes/No) = 0.03 pts	No	(Swamp/wetland may be +/- riparian zone)		Score	0
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(Swamp/wetland may be +/- riparian zone)																						
Score	0																					
Note; Blocks will score a minimum Landscape Context Score of 1		LANDSCAPE CONTEXT SCORE (max 1.25) 1.11																				



APPENDIX 3- FLORA

Plant Species Recorded (Native and Introduced)		Threatened Sp.		Introduced Species
Species	Common Name	EPBC	SA	
<i>Leucopogon parviflorus</i>	Coast Beard-heath			
<i>Acacia leiophylla</i>	Coast Golden Wattle			
<i>Dianella brevicaulis</i>	Short-stem Flax-lily			
<i>Rytidosperma</i> sp.	Wallaby-grass			
<i>Adriana quadripartita</i>	Coast Bitter-bush			
<i>Muehlenbeckia adpressa</i>	Climbing Lignum			
<i>Acaena novae-zelandiae</i>	Biddy-biddy			
<i>Orthrosanthus multiflorus</i>	Morning Flag			
<i>Acrotriche patula</i>	Prickly Ground-berry			
<i>Acacia longifolia</i> ssp. <i>sophorae</i>	Coastal Wattle			
<i>Kunzea pomifera</i>	Muntries			
<i>Eucalyptus diversifolia</i> ssp. <i>diversifolia</i>	Coastal White Mallee			
<i>Olearia axillaris</i>	Coast Daisy-bush			
<i>Acacia uncifolia</i>	Coast Silver Wattle			
<i>Myoporum insulare</i>	Common Boobialla			
<i>Rhagodia candolleana</i> ssp. <i>candolleana</i>	Sea-berry Saltbush			
<i>Clematis microphylla</i>	Old Man's Beard			
<i>Eucalyptus cneorifolia</i>	Kangaroo Island Narrow-leaf Mallee			
<i>Diplotaxis tenuifolia</i>	Lincoln Weed			*
<i>Lagurus ovatus</i>	Hare's Tail Grass			*
<i>Asphodelus fistulosus</i>	Onion Weed			*
<i>Asparagus asparagoides</i> f.	Bridal Creeper			*
<i>Sonchus oleraceus</i>	Common Sow-thistle			*
<i>Medicago</i> sp.	Medic			*
<i>Acacia cyclops</i>	Western Coastal Wattle			
<i>Geranium molle</i> var. <i>molle</i>	Soft Geranium			*



APPENDIX 4- FAUNA


Threatened or Introduced Animal Species Recorded or Observed (Native and Introduced)		Threatened Species				Introduced Species
Species	Common Name	EPBC	SA	Past Record	Observed	Introduced Species
<i>Acanthiza pusilla zietzi</i>	Brown Thornbill (KI)					
<i>Accipiter cirrocephalus cirrocephalus</i>	Collared Sparrowhawk					
<i>Anthochaera carunculata clelandi</i>	Red Wattlebird (KI)					
<i>Aquila audax</i>	Wedge-tailed Eagle					
<i>Cacomantis flabelliformis</i>	Fan-tailed Cuckoo					
<i>Chalcites basalis</i>	Horsfield's Bronze Cuckoo					
<i>Circus approximans</i>	Swamp Harrier					
<i>Corvus coronoides</i>	Australian Raven					
<i>Corvus mellori</i>	Little Raven					
<i>Eolophus roseicapilla</i>	Galah					
<i>Epthianura albiglans</i>	White-fronted Chat					
<i>Falco berigora</i>	Brown Falcon					
<i>Gymnorhina tibicen</i>	Australian Magpie					
<i>Hirundo neoxena</i>	Welcome Swallow					
<i>Malurus cyaneus ashbyi</i>	Superb Fairywren (KI)					
<i>Ninox boobook</i>	Southern Boobook					
<i>Pachycephala pectoralis</i>	Australian Golden Whistler					
<i>Parvipsitta porphyrocephala</i>	Purple-crowned Lorikeet					
<i>Phylidonyris novaehollandiae campbelli</i>	New Holland Honeyeater (K)					
<i>Phylidonyris pyrrhopterus halmaturinus</i>	Crescent Honeyeater (KI and					
<i>Rhipidura albiscapa</i>	Grey Fantail					
<i>Sericornis frontalis ashbyi</i>	White-browed Scrubwren (K)					
<i>Strepera versicolor halmaturina</i>	Black-winged Currawong (K)					
<i>Trichoglossus haematodus</i>	Rainbow Lorikeet					
<i>Tyto javanica delicatula</i>	Eastern Barn Owl					
<i>Zosterops lateralis</i>	Silvereye					
<i>Felis catus</i>	Domestic Cat (Feral Cat)					*
<i>Isodon obesulus obesulus</i>	Southern Brown Bandicoot (EN)	V				
<i>Macropus (Notamacropus) eugenii eugenii</i>	Tammar Wallaby					
<i>Macropus fuliginosus fuliginosus</i>	Western Grey Kangaroo (KI)					
<i>Mus musculus</i>	House Mouse					*
<i>Rattus fuscipes</i>	Bush Rat					
<i>Rattus rattus</i>	Black Rat (Ship Rat, Roof Rat)					*
<i>Tachyglossus aculeatus multiaculeatus</i>	Short-beaked Echidna (Kan)	EN	E			
<i>Trichosurus vulpecula</i>	Common Brushtail Possum		R			
<i>Austrelaps labialis</i>	Pygmy Copperhead					
<i>Christinus marmoratus</i>	Marbled Gecko					
<i>Hemiergis peronii</i>	Four-toed Earless Skink					
<i>Lerista bougainvillii</i>	Bougainville's Skink					
<i>Notechis scutatus</i>	Tiger Snake	ssp				
<i>Varanus rosenbergi</i>	Heath Goanna		V			



APPENDIX 5- SCORES

Vegetation Condition Scores																								
SITE:		Glamping Tents																						
VEGETATION ASSOCIATION DESCRIPTION		Leucopogon parviflorus mid open shrubland over Kunzea pomifera																						
SIZE OF SITE (Ha)		0.2468																						
Native Plant species diversity																								
Score the diversity of species present in the site as a proportion to what would be expected in a vegetation of that community in very good condition (approaching a pre-European state)																								
<5% (3 Points)	<input type="checkbox"/>																							
5-10% (6 Points)	<input type="checkbox"/>																							
11 - 20% (9 Points)	<input type="checkbox"/>																							
21 - 30% (12 Points)	<input type="checkbox"/>																							
31 - 40 % (15 Points)	<input type="checkbox"/>																							
41 - 50% (18 Points)	<input checked="" type="checkbox"/>																							
51 - 60% (21 Points)	<input type="checkbox"/>																							
61 - 70% (24 Points)	<input type="checkbox"/>																							
71 - 80% (27 Points)	<input type="checkbox"/>																							
>80% (30 Points)	<input type="checkbox"/>																							
Native Plant species diversity score (max score of 30)		18																						
Weed Scores																								
Does the site contain plant species declared under the NRM Act 2004 (1.5 points)		<input checked="" type="checkbox"/>																						
Cover rating for all declared weeds (max of 6)		3																						
Does the site contain environmental weeds (introduced plants with the capacity to invade and exclude native species from bushland. This typically includes species with a BCM weed threat rating of 3, 4 or 5). (1 Point)		<input checked="" type="checkbox"/>																						
Cover rating for all environmental weeds (max of 6)		3																						
Weed Score (max score of 15)		7.5																						
Is the community naturally treeless?																								
Is the community naturally treeless?		<input type="checkbox"/>																						
Mature Tree Score (max 8)		2																						
Fallen timber/debris (max 5)		1																						
Hollow-bearing trees Score (max 5)		0																						
Tree Canopy Cover Score (max 5)		0																						
Native:exotic Understorey biomass score (max 5)		4																						
Regeneration																								
No regeneration present (0 Points)		<input type="checkbox"/>																						
Very low regeneration, consisting of highly scattered juvenile plants of a limited number of species (3 points)		<input type="checkbox"/>																						
Regeneration present, consisting of multiple individual juvenile plants but a limited number of species (6 points)		<input type="checkbox"/>																						
Multiple species regenerating, but low numbers of juvenile plants (9 points)		<input type="checkbox"/>																						
Multiple species regenerating with multiple individual juveniles present with varying age classes (12 points)		<input type="checkbox"/>																						
Regeneration Score (Max 12)		0																						
Native Plant life form																								
All strata of vegetation heavily impacted and native vegetation represented by only scattered plants (4 points)		<input type="checkbox"/>																						
All strata of vegetation impacted with limited structural diversity, largely uniform age classes and reduced vegetation cover (8 points)		<input type="checkbox"/>																						
At least one strata of vegetation has been impacted, with reduced structural diversity, elements may be missing (such as plant species that provide specific structural features e.g. sedges or mid layer shrubs) and reduce vegetation cover (12 points)		<input type="checkbox"/>																						
Limited impacts on native vegetation, with a diversity of structural features and a varied age class, with only a minor loss in structural diversity, vegetation cover or structural elements (16 points)		<input type="checkbox"/>																						
All strata of vegetation present, little or no sign of disturbance. A variety of life forms and associated age classes present. Vegetation cover near complete (20 points)		<input type="checkbox"/>																						
Native Plant life form score (max 20)		0																						
Vegetation Condition Score calculation																								
Positive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms + Mature Trees + Fallen timber/debris + Hollow-bearing trees																								
If the community is naturally treeless this score is multiplied by 1.24																								
		21.00																						
Negative Vegetation Attributes Score = (15 - Weeds) + ((10 - Biomass score - Tree Canopy Cover Score)exp2/2)																								
		25.50																						
VEGETATION CONDITION SCORE (Positive veg attributes x ((Negative vegetation attributes + 60) / 80))																								
		14.31																						
<table border="1"> <caption>Vegetation Condition Score Calculation Data</caption> <thead> <tr> <th>Attribute</th> <th>Score</th> </tr> </thead> <tbody> <tr> <td>Native Plant Species Diversity</td> <td>18</td> </tr> <tr> <td>Weed Score</td> <td>7.5</td> </tr> <tr> <td>Native Plant Life Forms</td> <td>0</td> </tr> <tr> <td>Regeneration</td> <td>0</td> </tr> <tr> <td>Native:exotic Understorey Biomass</td> <td>4</td> </tr> <tr> <td>Tree Canopy Cover Score</td> <td>0</td> </tr> <tr> <td>Mature Tree Score</td> <td>2</td> </tr> <tr> <td>Tree Hollows</td> <td>0</td> </tr> <tr> <td>Fallen timber</td> <td>1</td> </tr> <tr> <td>Vegetation Condition Score</td> <td>14.31</td> </tr> </tbody> </table>			Attribute	Score	Native Plant Species Diversity	18	Weed Score	7.5	Native Plant Life Forms	0	Regeneration	0	Native:exotic Understorey Biomass	4	Tree Canopy Cover Score	0	Mature Tree Score	2	Tree Hollows	0	Fallen timber	1	Vegetation Condition Score	14.31
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Tree Hollows	0																							
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Vegetation Condition Score	14.31																							



Conservation Significance Score	
Is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No
State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)	<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)	<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.3 pts)	<input type="checkbox"/>
Nationally (EPBC Act) Vulnerable community (0.35 pts)	<input type="checkbox"/>
Contains a Nationally (EPBC Act) Endangered or Critically Endangered community (0.4 pts)	<input type="checkbox"/>
Note; all sites will score a minimum Conservation Significance Score of 1	Threatened Community Score
	1
Number of Threatened Flora Species recorded for the site (within the site)	Number
*If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National rating.	
State Rare species 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 each)	0
Nationally Endangered or Critically endangered species recorded (20 pts each)	0
0 = 0 pts; <2 = 0.04 pts; 2 - <5 = 0.08 pts; 5 - <10 = 0.12 pts; 10 - <20 = 0.16pts; 20 or > = 0.2 pts	Threatened Flora Score
	0
Potential habitat for Threatened Fauna Species (number observed or previously recorded)	Number
*If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National rating.	
State Rare species observed or locally recorded (1 pt each)	1
State Vulnerable species observed or locally recorded (2.5 pt each)	1
State Endangered species observed or locally recorded (5 pt each)	0
Nationally Vulnerable species observed or locally recorded (10 pts each)	0
Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each)	2
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	Threatened Fauna Score
	0.1
CONSERVATION SIGNIFICANCE SCORE	1.1
Total Scores for the Site	
LANDSCAPE CONTEXT SCORE	Score
1.11	
VEGETATION CONDITION SCORE	14.31
CONSERVATION SIGNIFICANCE SCORE	1.10
Vegetation Condition x Landscape Context x Conservation Significance =	
UNIT BIODIVERSITY SCORE	17.47
Total Biodiversity Score	
(Biodiversity Score x hectares)	4.31
Photo Point and Vegetation Survey Location	Direction of the Photo
	120 degrees
	GPS Reference
	Datum WGS84
	Zone (52, 53 or 54) 53
	Easting (6 digits) 748293
	Northing (7 digits) 6029731
	Description
Highly degraded Leucopogon parviflorus shrubland over Orthrosanthus multiflorus in poor weedy condition	
Assessment for Clearance	
Loss Factor	1.0
Loadings for clearance of protected areas	
Reductions for rehabilitation of impact site	
SEB Points required	4.53
Approximate hectares required	0.57
Economies of Scale factor	0.50
Mean Annual rainfall for the site (mm)	564
Payment into the fund (GST Exclusive)	\$3,414.51
Administration fee (GST Inclusive)	\$187.80



Vegetation Condition Scores

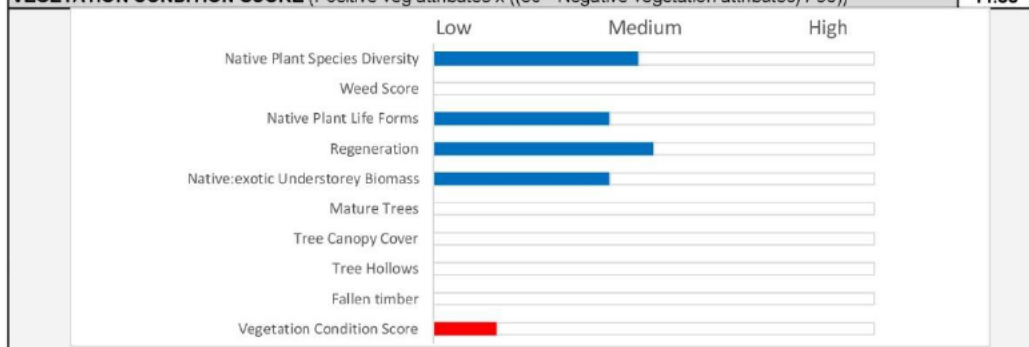
SITE:	Maintenance
BCM COMMUNITY	KI 8.3 Coastal Low & Very Low Woodlands or Mallee of stable Dunes & Cliff top Dunes
VEGETATION ASSOCIATION DESCRIPTION	<i>Leucopogon parviflorus</i> mid open shrubland over <i>Kunzea pomifera</i>
SIZE OF SITE (Ha)	1.76

Benchmarked attributes (Scores determined by comparing to a Benchmark community)				Native Plant Life Forms	Cover rating
Number of Native Species (Minus herbaceous annuals for spring Surveys)	18			Trees > 15m	
Native Plant Species Diversity Score (max 30) from benchmark score <i>weighted by a factor of 2</i>	14.0			Trees 5 - 15 m	
				Trees < 5m	
Number of regenerating native species	3			Mallee > 5m	
Regeneration Score (max 12) from benchmark community <i>weighted by a factor of 1.5</i>	6			Mallee < 5m	1
				Shrubs > 2m	
				Shrubs 0.5 - 2m	1
				Shrubs < 0.5	2
				Forbs	1
Weed species (Top 5 Cover x Invasiveness)	Cover (max 6)	Weed Threat Rating (max 5)	C x I	Mat Plants	
<i>Asparagus asparagoides</i> forma	3	5	15	Grasses > 0.2m	
<i>Acacia cyclops</i>	3	3	9	Grasses < 0.2m	2
<i>Asphodelus fistulosus</i>	3	2	6	Sedges > 1m	
<i>Diplotaxis tenuifolia</i>	3	2	6	Sedges < 1m	2
<i>Lagurus ovatus</i>	3	2	6	Hummock grasses	
	Cover x Threat		42	Vines, scramblers	
Weed Score (max 15) from benchmark community	0			Mistletoe	
				Ferns	
				Grass-tree	
				Total	9
Native Plant Life Forms (max 20) from benchmark score <i>weighted by a factor of 2</i>					8.0

Non-Benchmarked Attributes (Scores determined from direct field observations)		Is the community naturally treeless?	
Native:exotic Understorey biomass Score (max 5)	2	Fallen Timber/Debris (max 5)	0
		Hollow-bearing trees Score (max 5)	0
		Mature Tree Score (max 8)	0
		Tree Canopy Cover Score (max 5)	0

Vegetation Condition Score calculation

Positive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms Fallen timber/debris + Hollow-bearing trees - If the community Score is Not Benchmarked (SNB) for regeneration this score is multiplied 1.24 - If the community is naturally treeless this score is multiplied by 1.29		28.00
Negative Vegetation Attributes Score = (15 - Weeds) + ((10 - Biomass score - Tree Canopy Cover Score)exp2/2)		47.00
VEGETATION CONDITION SCORE (Positive veg attributes x ((80 - Negative vegetation attributes) / 80))		11.55




Conservation Significance Score

Is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No
State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)	<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)	<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.3 pts)	<input type="checkbox"/>
Nationally (EPBC Act) Vulnerable community (0.35 pts)	<input type="checkbox"/>
Nationally (EPBC Act) Endangered or Critically Endangered community (0.4 pts)	<input type="checkbox"/>
<i>Note: all sites will score a minimum Conservation Significance Score of 1</i>	
Threatened Community Score	1
Number of Threatened Flora Species recorded for the site (within the site)	Number
<i>*If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National rating.</i>	
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 each)	0
Nationally Endangered or Critically endangered species recorded (20 pts each)	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	0
Threatened Flora Score	0
Potential habitat for Threatened Fauna Species (number observed or previously recorded)	Number
<i>*If a species has both a State (NP&W Act) and National (EPBC 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 recorded (2.5 pt each)	0
State Endangered species observed or locally recorded (5 pt each)	0
Nationally Vulnerable species observed or locally recorded (10 pts each)	0
Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each)	2
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	40
Threatened Fauna Score	0.1
CONSERVATION SIGNIFICANCE SCORE	1.1

Total Scores for the Site

	Score	Vegetation Condition x Landscape Context x Conservation Significance =	
LANDSCAPE CONTEXT SCORE	1.11	UNIT BIODIVERSITY SCORE	14.10
VEGETATION CONDITION SCORE	11.55	Total Biodiversity Score	
CONSERVATION SIGNIFICANCE SCORE	1.10	(Biodiversity Score x hectares)	24.82

Photo Point and Vegetation Survey Location		Direction of the Photo	
		329 degrees	
		GPS Reference	
		Datum	WGS84
		Zone (52, 53 or 54)	53
		Easting (6 digits)	748235
		Northing (7 digits)	6.29776
		Description	
		Leucopogon parviflorus, Acacia leiophylla shrubland over Orthrosanthus multiflorus in poor weedy condition	
What is the purpose of Assessment?			
<input type="button" value="Clearance"/> <input type="button" value="SEB Area"/> <input type="button" value="Other"/>			
Assessment for Clearance			
Loss Factor	1.0	Approximate hectares required	3.26
Loadings for clearance of protected areas		Economies of Scale Factor	0.5
Reductions for rehabilitation of impact site		Mean Annual rainfall for the site (mm)	564
SEB Points required	26.06	Payment into the fund (GST Exclusive)	\$20,444.96
		Administration fee (GST Inclusive)	\$1,124.47





ATTACHMENT 1- DEVELOPMENT APPLICATION

ATTACHMENT 2- NVC ENFORCEMENT NOTICE

