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casUrl=https://auth.ala.org.au/cas/logout&appUrl=https://biocollect-test.ala.org.au/ecoscience/bioActivity/edit/be0ab5d0-592f-4d5c-91a2-2bb329489757?hub=ecoscience\)](https://biocollect-test.ala.org.au/logout/logout?casUrl=https://auth.ala.org.au/cas/logout&appUrl=https://biocollect-test.ala.org.au/ecoscience/bioActivity/edit/be0ab5d0-592f-4d5c-91a2-2bb329489757?hub=ecoscience)  
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### Assessment Area Information

Bioregion: \*

Regional ecosystem / Landtype:

Property name:

Assessment date \*

Recorded by \*

Site assessment number

Transect bearing (degrees): \*

Area of patch (Ha): \*

General description:



Title: \*

Date Taken: \*

Licence:

(https://ecodata-test.ala.org.au/uploads/2019-12/e29c98d2-8a12-4727-9c47-cf1efac081d8.jpeg)

Attribution:

Notes: \*

File Name:

e29c98d2-8a12-4727-9c47-cf1efac081d8.jpeg  
(304.46 KB)



Title: \*

Date Taken: \*

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(https://ecodata-test.ala.org.au/uploads/2019-12/2-8-08\_080.JPG)

Attribution:

Notes: \*

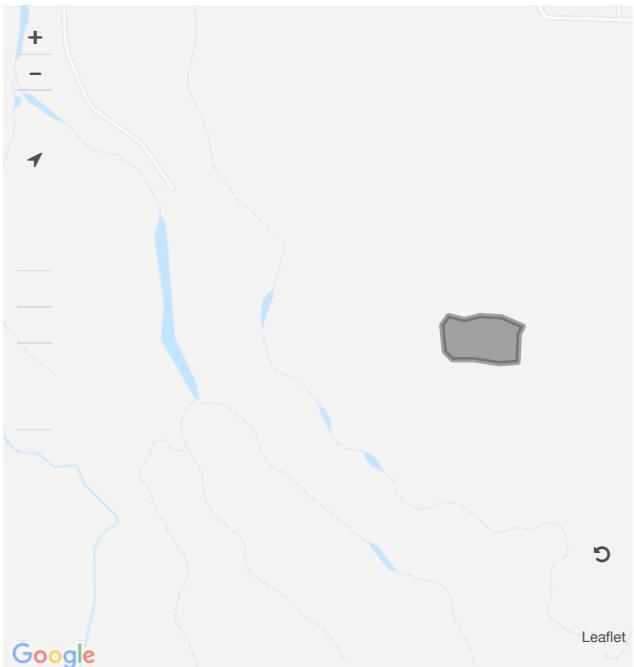
File Name:

2-8-08\_080.JPG  
(265.21 KB)

\* Add images

Or, drop images here

Select a location



Centroid Latitude

Centroid Longitude

Latitude \*

Longitude \*

Location notes

## Regional ecosystem benchmark values

Please enter the published benchmark values which are applicable to the selected regional ecosystem. These values are required for the calculation of scores. If a particular value is not applicable for the selected RE, leave the value as '0'.

1. Read only fields, auto populated based on the bio region and regional landscape code.

No. of eucalypt large trees:	11	Tree canopy EDL average height (m):	na	Total No. of tree species:	2
Eucalypt large tree DBH (cm):	58	Tree canopy average height (m):	16	Total No. of shrub species:	9
No. of non-eucalypt large trees:	15	Tree subcanopy average height (m):	7	Total No. of grass species:	15
Non-Eucalypt large tree DBH (cm):	26	% of dominant canopy EDL species with evidence of recruitment:	100	Total No. of forb & other species:	10
Length of coarse woody debris (m):	307			Non-native species cover (%):	0

## Assessment - Site Attributes

### 100 x 50m Area - Ecologically Dominant Layer

Record details for the ecologically dominant stratum over the 100 x 50m survey area.

**Framework 100 x 50 m plot refers Table\_5**

**1. Assessment % = (60/benchmarkTotalLargeTrees)\*100**

**A**

```

key": "11.4.12",
"value": [
{
  "name": "Trees - Large trees - Number of large eucalypt trees per hectare",
  "description": "",
  "value": "11"
},
{
  "name": "Trees - Large trees - Number of large non-eucalypt trees per hectare",
  "description": "",
  "value": "15"
}
]
benchmarkTotalLargeTrees = 15+11 = 26
(60/26) * 100 = 230.%
Score determined based on assessment %

```

**BioCondition Assessment = Table\_5**

```

"value": [
{
  "name": "No large trees present",
  "description": "",
  "value": "0"
},
{
  "name": "0 to 50% of benchmark number of large trees",
  "description": "",
  "value": "5"
},
{
  "name": ">50% to 100% of benchmark number of large trees",
  "description": "",
  "value": "10"
},
{
  "name": ">= benchmark number of large trees",
  "description": "",
  "value": "15"
}
]

```

**A**

No. of large eucalypt trees (> benchmark DBH): **10**

No. of large non-eucalypt trees (> benchmark DBH): **20**

Total No. of large trees counted: **30**

10 + 20 = 30

No. of large eucalypt trees / Ha: **20\*x2 =20**

No. of large non-eucalypt trees / Ha: **20\*x2 =40**

Total No. of large trees / Ha.: **60**

10\*x2 =20

20\*x2 =40

20 + 40 = 60

Large trees score: **15**

**B**

Emergent height (m): **10**

Tree Canopy (EDL) Height (m): **20**

Tree subcanopy height (m): **10**

Emergent canopy height score: **0**

EDL tree canopy height score: **5**

Tree subcanopy height score: **5**

Averaged canopy height score: **5**

**C**

Question 1: Do we need use benchmark value?

EDL species recruitment score: **0**

```

key": "11.4.12",
"value": [
{
  "name": "Recruitment of dominant canopy species (%)",
  "description": "",
  "value": "100"
}
]

```

Proportion of canopy EDL species with evidence of recruitment (%): **10**

Native tree species names: **10**

No. of

The number of

Sathrochthonius	
Sarconeurm	
Sanonia	
Sarconeurm	
No. of listed tree species:	4
<a href="#">Add a row</a>	

unknown native tree species: **?** \*

Total native tree species richness:

**10** Question: What is this used for? native tree species is combined with the total number

**5 G1** Benchmark:

```
{
  "name" : "Native plant species richness - Tree",
  "description": "",
  "value" : "2"
},
```

$$=(\text{No. of listed tree species} / \text{Benchmark Value}) * 100$$

$$=(4/2) * 100$$

$$=200\%$$

```
{
  "key" : "table_11",
  "value": [
    {
      "name": "<25% of benchmark number of species within each life-form",
      "description": "",
      "value": "0"
    },
    {
      "name" : "\geq25\% to 90\% of benchmark number of species within each life-form",
      "description": "",
      "value" : "2.5"
    },
    {
      "name" : "\geq90\% of benchmark number of species within each life-form",
      "description": "",
      "value" : "5"
    }
  ]
},
```

Total Richness = 5

## 50 x 10m Area - Understorey & Sub-dominant Layer

Record all understorey species within the 50 x 10m area boundary.

### Native shrub species richness

(List all species for plants which are: single-stemmed below 2m height, multi-stemmed from base, or below 20cm above ground level):

<b>Native shrub species names</b> <b>?</b>	
Sarconeurm	
Samolus	
Samanea	
No. of listed native shrub species:	3
<a href="#">Add a row</a>	

No. of unknown native shrub species: **?** \*

Total native shrub species richness: **2.5 G2**

**16** Question: Should we use this?

Benchmark value:

```
{
  "name" : "Native plant species richness - Shrub",
  "description": "",
  "value" : "9"
},
```

$$=(3/6)*100$$

$$=50\%$$

```
{
  "key" : "table_11",
  "value": [
    {
      "name": "<25\% of benchmark number of species within each life-form",
      "description": "",
      "value": "0"
    },
    {
      "name" : "\geq25\% to 90\% of benchmark number of species within each life-form",
      "description": "",
      "value" : "2.5"
    },
    {
      "name" : "\geq90\% of benchmark number of species within each life-form",
      "description": "",
      "value" : "5"
    }
  ]
},
```

Native shrub = 2.5

### Native grass species richness

<b>Native grass species names</b> <b>?</b>	
Astrodactylus robillardii	
Stipa	
Brachydontium	
No. of listed native grass species:	3
<a href="#">Add a row</a>	

No. of unknown grass species: **?** \*

Total grass species richness: **0 G3**

**21** Question: Should we use this field?

Benchmark:

```
{
  "name" : "Native plant species richness - Grass",
  "description": "",
  "value" : "15"
},
```

$$=(3/15)*100$$

$$=20\%$$

```
{
  "key" : "table_11",
  "value": [
    {
      "name": "<25\% of benchmark number of species within each life-form",
      "description": "",
      "value": "0"
    },
    {
      "name" : "\geq25\% to 90\% of benchmark number of species within each life-form",
      "description": "",
      "value" : "2.5"
    },
    {
      "name" : "\geq90\% of benchmark number of species within each life-form",
      "description": "",
      "value" : "5"
    }
  ]
},
```

Grass richness = 0

### Native forbs and other (non-grass groundcover) species richness:

--	--

Native forb species and other life form names <span style="color: red;">?</span>	
Hibbertia velutina	
Zygophyllum tesquorum	
No. of listed native forbs and other species:	2
<a href="#">Add a row</a>	

Number of unknown native forbs & other species: 25  
\*  
 Total richness 0 G 4  
 of native forbs & other species: ?

Benchmark:  
 $\{$   
 "name": "Native plant species richness - Forbes and Other",  
 "description": "",  
 "value": "10"  
 $\}$ ,  
 $= (2/10) * 100$   
 $= 20$   
 key": "table\_11",  
 "value": [  
 {  
 "name": "<25% of benchmark number of species within each life-form",  
 "description": "",  
 "value": "0"  
 },  
 {  
 "name": ">=25% to 90% of benchmark number of species within each life-form",  
 "description": "",  
 "value": "2.5"  
 },  
 {  
 "name": ">=90% of benchmark number of species within each life-form",  
 "description": "",  
 "value": "5"  
 }  
 $\}$ ,  
 Total Richness = 0  
 $= 0$

#### Non-native species richness:

Question: Should we use this field?	
Non-native species names <span style="color: red;">?</span>	
Ulmus thomasii	
Aristida latifolia (Feathertop Wi	
No. of listed non-native species:	2
<a href="#">Add a row</a>	

Number of unknown non-native species: 4  
\*  
 Total richness 10  
 of non-native species: ?  
 Total cover of non-native species (%): 21

Non-native plant species richness is recorded, but is not included in condition score calculations.  
 Non-native plant cover score: ?

Benchmark:  
 $\{$   
 "name": "Non-native plant cover - Typical non-native grassland",  
 "description": "Eragrostis curvula^ (weeping love-lies-bleeding), Malvastrum coccineum, Bryophyllum delagoense (chandelier plant)",  
 "value": "0"  
 $\}$ ,  
 $= (2/0) * 100$   
 $= 0$   
 key": "table\_12",  
 "value": [  
 {  
 "name": ">50% of vegetation cover are non-native",  
 "description": "",  
 "value": "0"  
 },  
 {  
 "name": ">=25 – 50% of vegetation cover are non-native",  
 "description": "",  
 "value": "3"  
 },  
 {  
 "name": ">=5 – 25% of vegetation cover are non-native",  
 "description": "",  
 "value": "5"  
 },  
 {  
 "name": "<5% of vegetation cover are non-native",  
 "description": "",  
 "value": "10"  
 }  
 $\}$ ,  
 Total Richness = 10

#### 50 x 20m area - Coarse Woody Debris

Includes all logs > 10cm diameter and > 0.5m length (and >80% contact with the ground), within the boundary of the 50 x 20m plot area.

CWD Length (m):	
20	<span style="border: 1px solid black; padding: 2px;">20</span>
500	<span style="border: 1px solid black; padding: 2px;">500</span>
4	<span style="border: 1px solid black; padding: 2px;">4</span>
<a href="#">Add a row</a>	

Total length of 524 coarse woody debris (m): F  
\*  
 Benchmark:  
 $\{$   
 "name": "Coarse woody debris - Total length",  
 "description": "",  
 "value": "307"  
 $\}$ ,  
 $= (524/307) * 100$   
 $= 170\%$   
 key": "table\_10",  
 "value": [  
 {  
 "name": "<10% of benchmark number or total length",  
 "description": "",  
 "value": "0"  
 },  
 {  
 "name": ">= 10 to <50% or >200% of benchmark number or total length",  
 "description": "",  
 "value": "2"  
 },  
 {  
 "name": ">=50% or <200% of benchmark number or total length",  
 "description": "",  
 "value": "5"  
 }  
 $\}$ ,  
 Result: 5

Mean: Add plot 1 to plot 5  
 Score:  
 $\{$   
 "name": "Ground cover (%) - Native perennial grass cover (%)",  
 "description": "",  
 "value": "18"  
 $\}$ ,  
 key": "table\_13",  
 "value": [  
 {  
 "name": "<10% of benchmark native perennial (or preferred and intermediate) grass cover",  
 "description": "",  
 "value": "0"  
 },  
 {  
 "name": ">=10 to 50% of benchmark native perennial (or preferred and intermediate) grass cover",  
 "description": "",  
 "value": "1"  
 },  
 {  
 "name": ">=50 – 90% of benchmark native perennial (or preferred and intermediate) grass cover",  
 "description": "",  
 "value": "3"  
 },  
 {  
 "name": ">90% of benchmark native perennial (or preferred and intermediate) grass cover",  
 "description": "",  
 "value": "5"  
 }  
 $\}$ ,  
 $= (80/18) * 100 = 444.44\% = 5$

#### Five 1x1m plots - Ground Cover

\* attributes are essential to assess as used in scoring, however not all of the attributes)

Question: Bench mark value for other ground cover?? Ex: Rock							
Do we need benchmarkMarkGroundCoverOrganicLitterCover ?							
Ground cover	Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	Mean	Score
% Native Perennial ('decreaser') grass cover*	<span style="border: 1px solid black; padding: 2px;">10</span>	<span style="border: 1px solid black; padding: 2px;">20</span>	<span style="border: 1px solid black; padding: 2px;">10</span>	<span style="border: 1px solid black; padding: 2px;">10</span>	<span style="border: 1px solid black; padding: 2px;">30</span>	80	<span style="color: red;">5</span>
% Native other grass cover (if relevant)*	<span style="border: 1px solid black; padding: 2px;">10</span>	<span style="border: 1px solid black; padding: 2px;">10</span>	<span style="border: 1px solid black; padding: 2px;">30</span>	<span style="border: 1px solid black; padding: 2px;">40</span>	<span style="border: 1px solid black; padding: 2px;">40</span>	130	0
% Native forbs and other species (non-grass)	<span style="border: 1px solid black; padding: 2px;">10</span>	<span style="border: 1px solid black; padding: 2px;">40</span>	<span style="border: 1px solid black; padding: 2px;">2</span>	<span style="border: 1px solid black; padding: 2px;">10</span>	<span style="border: 1px solid black; padding: 2px;">87</span>	149	0

Question: Can't find the benchmark values

% Native shrubs (< 1m height)	8	9	45	19	68	149	0
% Non-native grass	19	98	7	8	9	141	0
% Non-native forbs and shrubs	19	83	67	8	73	250	0
% Litter*	26	47	57	57	57	244	0
% Rock	17	78	57	27	71	250	0
% Bare ground	17	17	17	57	57	165	0
% Cryptograms	47	57	10	10	10	134	0
Total (%) - each column must be <= 100%	183	459	302	246	502		

Sum of Plot 1

## 100m Transect

### Tree canopy cover

Estimate of the length of vertically projected foliage cover (over the 100 m transect). Canopy cover equates to crown cover as defined by Walker and Hopkins (1990). (Only assess Emergent (E) or Subcanopy (S) layers if the RE benchmark document along the transect you can group them

Tree or tree group	Type of tree	
S	native	
C	native	
Please select	Please select	
<input type="button" value="Add a row"/>		

% cover of 400  
 C: Canopy cover  
 % cover of 200  
 S: score:  
 % cover of 0  
 E: Sub-canopy cover  
 Note: Only the projected foliage cover for native species is included in the calculated score.  
 Average tree canopy cover score: 0.67

### Shrub canopy cover

Shrub type*	Distance along transect (m)	Length (m)
native	400	100
Please select	0	0
<input type="button" value="Add a row"/>		

% cover of 300 natives:  
 % cover of 0 exotics:  
 Note: Only the projected foliage cover for native species is included in the calculated score.  
 Native shrub cover score: 3  
 = 400 \* 100  
 = 300  
 = (300/8) \* 100  
 = 3  
 Benchmark:  
 table\_9:

## Assessment - Landscape Attributes

Question: If there is no S, C or C count?

var treeCanopyCoverScoreAve = (cCount+sCount+eCount)/3; // TODO divided by 2 or 3? Should we include 0 entry?

table\_8

```

"key": "table_8",
"value": [
  {
    "name": "<10%",
    "description": "",
    "value": "0"
  },
  {
    "name": ">=10% and <50%",
    "description": "",
    "value": "2"
  },
  {
    "name": ">=50% or <=200%",
    "description": "",
    "value": "5"
  },
  {
    "name": ">200%",
    "description": "",
    "value": "3"
  }
]
  
```

% cover of 400	Canopy cover	3
C:	score:	
% cover of 200	Sub-canopy cover	3
S:	score:	
% cover of 0	Emergent cover	
E:	score:	
Note: Only the projected foliage cover for native species is included in the calculated score.	Average tree canopy cover score:	0.67
Add a row	Native shrub cover score:	3

% cover of 300 natives:

% cover of 0 exotics:

Note: Only the projected foliage cover for native species is included in the calculated score.

Native shrub cover score: 3

E

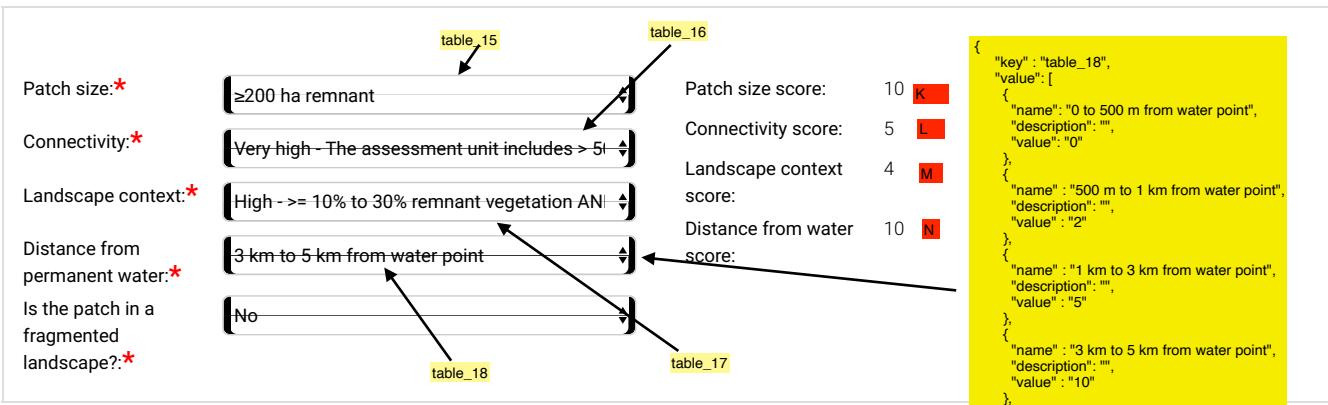
= 400 \* 100  
 = 300  
 = (300/8) \* 100  
 = 3

Benchmark:

```
{
  "name": "Shrubs - Native shrub cover (%)",
  "description": "",
  "value": "8"
},
```

table\_9:

```
{
  "key": "table_9",
  "value": [
    {
      "name": "<10% of benchmark shrub cover",
      "description": "",
      "value": "0"
    },
    {
      "name": "/> 10 to <50% or >200% of benchmark shrub cover",
      "description": "",
      "value": "3"
    },
    {
      "name": ">50% or <=200% of benchmark shrub cover",
      "description": "",
      "value": "5"
    }
  ]
}
```



## BioCondition Score

Site-based Condition Attributes		Landscape Attributes		Site BC Score: 0
Large trees score: <input type="text" value="0"/>	A	Patch size: <input type="text" value="10"/>	K	$\text{Site Based Score} = \frac{a + b + c + d + e + f + g + h + i + j}{Y}$  $\text{Site Based} = \frac{a + b + c + d + e + f + g + h + i + j + \text{either (k + l + m) or (n)}}{Y+Z}$  <b>In fragmented landscapes Lc = k + l + m OR in intact landscapes Lc = n</b>  $BC = (Sc \times Y/(Y+Z)) + (Lc \times Z/(Y+Z))$
Tree canopy height score: <input type="text" value="5"/>	B	Connectivity: <input type="text" value="5"/>	L	
Recruitment of canopy species: <input type="text" value="0"/>	C	Landscape context: <input type="text" value="4"/>	M	
Tree canopy cover (%): <input type="text" value="0.67"/>	D	Distance from water: <input type="text" value="10"/>	N	
Shrub layer cover (%): <input type="text" value="3"/>	E			
Coarse woody debris score: <input type="text" value="5"/>	F			
Native plant species richness (G = Native plant species richness for four life-forms include (Tree, Shrub, Grass and forbs?))	G1+G2+G3+G4			
Native perennial grass cover score: <input type="text" value="0"/>	H			
Litter cover score: <input type="text" value="0"/>	I			
	J			

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The Atlas of Living Australia acknowledges Australia's Traditional Owners and pays respect to the past and present Elders of the nation's Aboriginal and Torres Strait Islander peoples, honour and celebrate the spiritual, cultural and customary connections of Traditional Owners to country and the biodiversity that forms part of that country.

**The ALA is made possible by contributions from its partners, is supported by NCRIS and hosted by CSIRO.**



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