

AS 3959–2009 Bushfire Attack Level (BAL) Assessment Report for Stage 7 Beenyup Grove Estate, Byford

Site Details

Address: Beenyup Grove Estate (Lots 404-417, 425-430, 469, 472-477, 503-510 and 653-655)

Suburb: Byford, 6122 **State:** Western Australia

Local Government Area: Shire of Serpentine Jarrahdale

Description of building works: Residential development, future buildings

Report details

Report/Job number:	21PER-19133	Report version:	v1
Assessment date:	9/06/2021	Report date:	10/06/2021
Author:	Stephen Moore and Daniel Panickar	Review:	Daniel Panickar (BPAD Level 3-37802)



SITE ASSESSMENT AND SITE PLAN

The assessment of the subject lots was undertaken on 9 June 2021 for the purpose of determining the Bushfire Attack Level (BAL) in accordance with *Australian Standard AS 3959–2009 Construction of Buildings in Bushfire Prone Areas* (AS 3959–2009; SA 2009) Simplified Procedure (Method 1). An overview of the site is presented in Figure 1.

VEGETATION CLASSIFICATION AND EFFECTIVE SLOPE

All vegetation and effective slope within 100 m of the 38 subject lots was classified in accordance with Clause 2.2.3 of AS 3959–2009. Each distinguishable vegetation class with the potential to determine the BAL is identified below and presented in Figure 1.

Civil works were being undertaken on-site at the time of assessment and consequently, photographs of classified vegetation were taken using a combination of a handheld camera and a drone.

It is currently assumed that areas of landscaped vegetation within the site and assessment area will be managed and maintained by Parcel Property (the developer) until replaced by residential dwellings and associated infrastructure or handed over to the Shire of Serpentine Jarrahdale in the future.

Plot 1 Classification or Exclusion Clause

Excluded – clause 2.2.3.2 (e) & (f)

Photo Point 1

This plot has been excluded under Clause 2.2.3.2 (e) & (f) of AS 3959–2009. This is an area comprising land cleared and earthworked for development as well as a small cluster of trees over bare earth.



Plot 1 Classification or Exclusion Clause

Excluded – clause 2.2.3.2 (e) & (f)

Photo Point 2

This plot has been excluded under Clause 2.2.3.2 (e) and (f) of AS 3959–2009. This is an area of low threat, maintained vegetation and buildings as well as a small cluster of trees over bare earth.



Plot 1 Classification or Exclusion Clause

Excluded – clause 2.2.3.2 (e) & (f)

Photo Point 3

This plot has been excluded under Clause 2.2.3.2 f) of AS 3959–2009. This is an area of low threat, maintained grass under a small cluster of trees.



Plot 1 Classification or Exclusion Clause

Excluded – clause 2.2.3.2 (e) & (f)

Photo Point 4

This plot has been excluded under Clause 2.2.3.2 (e) and (f) of AS 3959–2009. This is an area that has been cleared for construction and development.



Plot 1 Classification or Exclusion Clause

Excluded – clause 2.2.3.2 (e) & (f)-

Photo Point 5

This plot has been excluded under Clause 2.2.3.2 (e) and (f) of AS 3959–2009. This is an area of low threat, maintained vegetation and footpaths.



RELEVANT FIRE DANGER INDEX

The fire danger index (FDI) for this site has been determined in accordance with Table 2.1 of AS 3959-2009. The FDI for WA is FDI 80.

Relevant Fire Danger Index			
FDI 40 <input type="checkbox"/>	FDI 50 <input type="checkbox"/>	FDI 80 <input checked="" type="checkbox"/>	FDI 100 <input type="checkbox"/>
<i>Table 2.4.5</i>	<i>Table 2.4.4</i>	<i>Table 2.4.3</i>	<i>Table 2.4.2</i>

POTENTIAL BUSHFIRE IMPACTS

The potential bushfire impact to the site / proposed development from each of the identified vegetation plots are identified below, Table 1 and Figure 1.

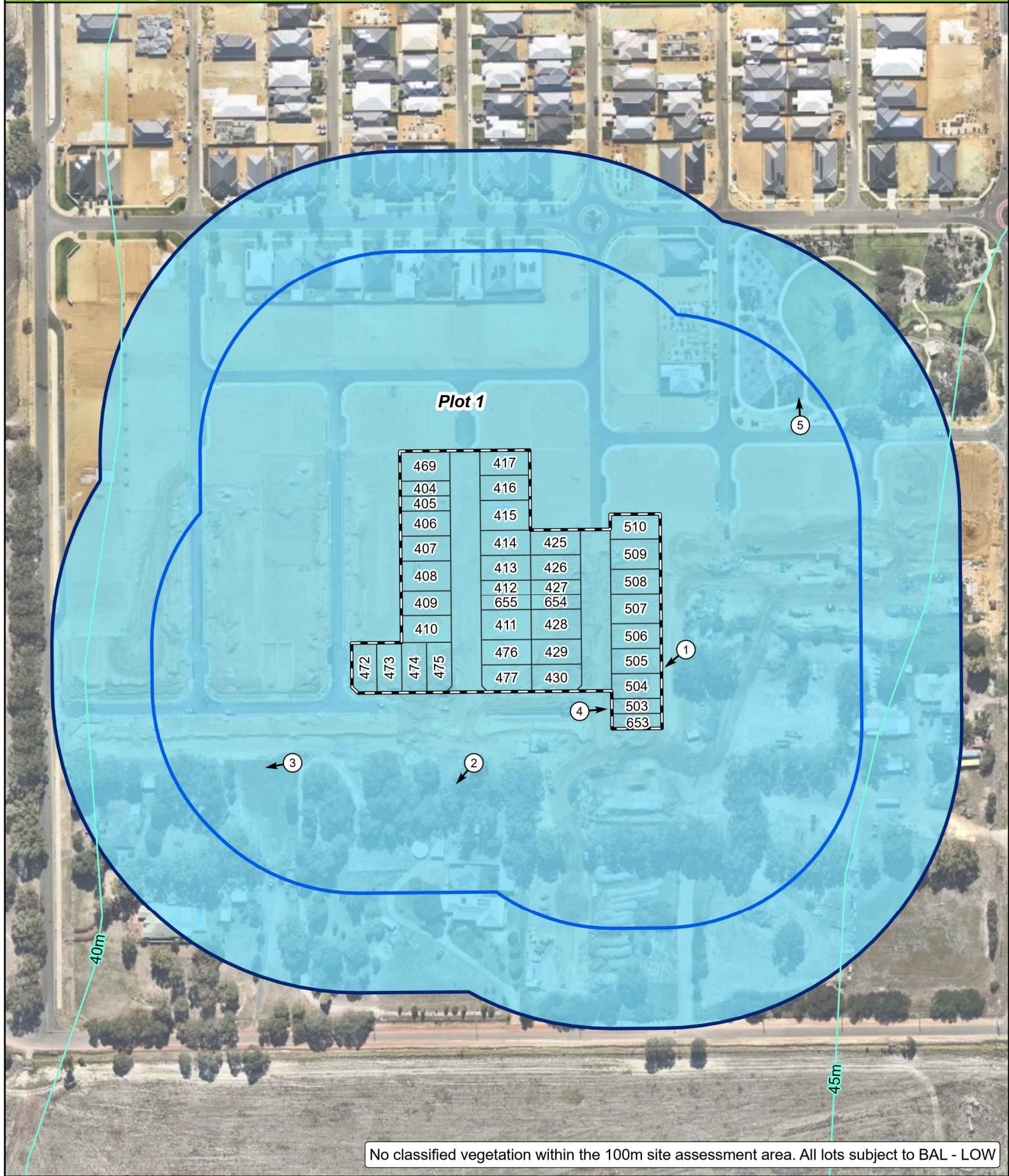
Table 1: BAL Analysis AS 3959–2009

Plot	Vegetation Classification	Effective Slope	Separation distances required				
			BAL-FZ	BAL-40	BAL-29	BAL-19	BAL-12.5
1	Excluded under Clause 2.2.3.2 (e) & (f)	N/A	No separation distances required – BAL-LOW				

DETERMINED BUSHFIRE ATTACK LEVEL (BAL)

The determined Bushfire Attack Level (highest BAL) for the 38 subject lots has been determined in accordance with Clause 2.2.6 of AS 3959–2009 using relevant data from the site assessment shown in Figure 1 and Table 1. All lots within the site are subject to BAL ratings of **BAL-LOW**.

Figure 1: Vegetation Classification



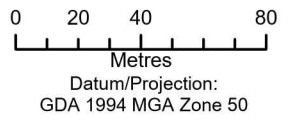
No classified vegetation within the 100m site assessment area. All lots subject to BAL - LOW

- Legend**
- Subject site
 - Lot boundary
 - 100m site assessment
 - 150m site assessment
 - Contour (5m)

Photo location

Vegetation classification

- Excluded as per clause 2.2.3.2 (e) and (f)



Appendix A – Additional Information / Advisory Notes

This assessment was undertaken as per AS 3959–2009. It is important that the appropriate version of AS 3959, is consulted for construction purposes.

This BAL rating is based on the information current at the date of this letter and is valid for 12 months from the date of this letter.

Bushfire Attack Level (BAL) as set out in the *Australian Standard 3959 Construction of Buildings in Bushfire-Prone Areas* (AS 3959), as referenced in the *Building Code of Australia*.

Bushfire Attack Level (BAL)	Classified vegetation within 100 m of the site and radiant heat flux exposure thresholds	Description of predicted bush fire attack and levels of exposure	Construction Section as per AS 3959
BAL-LOW		There is insufficient risk to warrant specific construction requirements.	4
BAL-12.5	≤12.5 kW/m ²	Ember attack	3 and 5
BAL-19	>12.5 kW/m ² ≤19 kW/m ²	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing radiant heat flux.	3 and 6
BAL-29	>19 kW/m ² ≤29 kW/m ²	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing radiant heat flux	3 and 7
BAL-40	>29 kW/m ² ≤40 kW/m ²	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing radiant heat flux with the increased likelihood of exposure to flames.	3 and 8
BAL-FZ	>40 kW/m ²	Direct exposure to flames from fire front in addition to radiant heat flux and ember attack	3 and 9

Source: “AS 3959–2009 Construction of buildings in bushfire-prone areas” published by Standards Australia, Sydney

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 404, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 404 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



0 5 10 20
Metres
Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 405, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

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Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 405 (BAL - LOW)

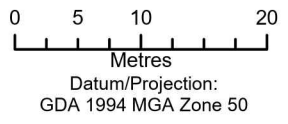


Legend

- Lot boundary
- 100m site assessment
- 150m site assessment

Bushfire Attack Level (BAL)

- BAL - FZ
- BAL - 40
- BAL - 29
- BAL - 19
- BAL - 12.5
- BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 406, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

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



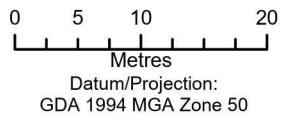
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 406 (BAL - LOW)



- Legend**
-  Lot boundary
 -  100m site assessment
 -  150m site assessment

- Bushfire Attack Level (BAL)**
-  BAL - FZ
 -  BAL - 40
 -  BAL - 29
 -  BAL - 19
 -  BAL - 12.5
 -  BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 407, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

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Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 407 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



0 5 10 20
Metres
Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 408, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

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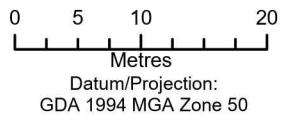
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 408 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 409, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

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



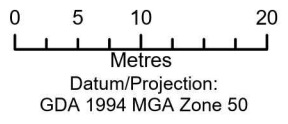
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 409 (BAL - LOW)



- Legend**
-  Lot boundary
 -  100m site assessment
 -  150m site assessment

- Bushfire Attack Level (BAL)**
-  BAL - FZ
 -  BAL - 40
 -  BAL - 29
 -  BAL - 19
 -  BAL - 12.5
 -  BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 410, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

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Eco Logical Australia

Signature: 


Certificate Date: 10/06/2021









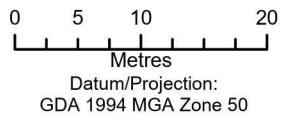
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 410 (BAL - LOW)



- Legend**
-  Lot boundary
 -  100m site assessment
 -  150m site assessment

- Bushfire Attack Level (BAL)**
-  BAL - FZ
 -  BAL - 40
 -  BAL - 29
 -  BAL - 19
 -  BAL - 12.5
 -  BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 411, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

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Eco Logical Australia

Signature: 


Certificate Date: 10/06/2021









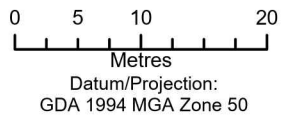
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 411 (BAL - LOW)



- Legend**
-  Lot boundary
 -  100m site assessment
 -  150m site assessment

- Bushfire Attack Level (BAL)**
-  BAL - FZ
 -  BAL - 40
 -  BAL - 29
 -  BAL - 19
 -  BAL - 12.5
 -  BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 412, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

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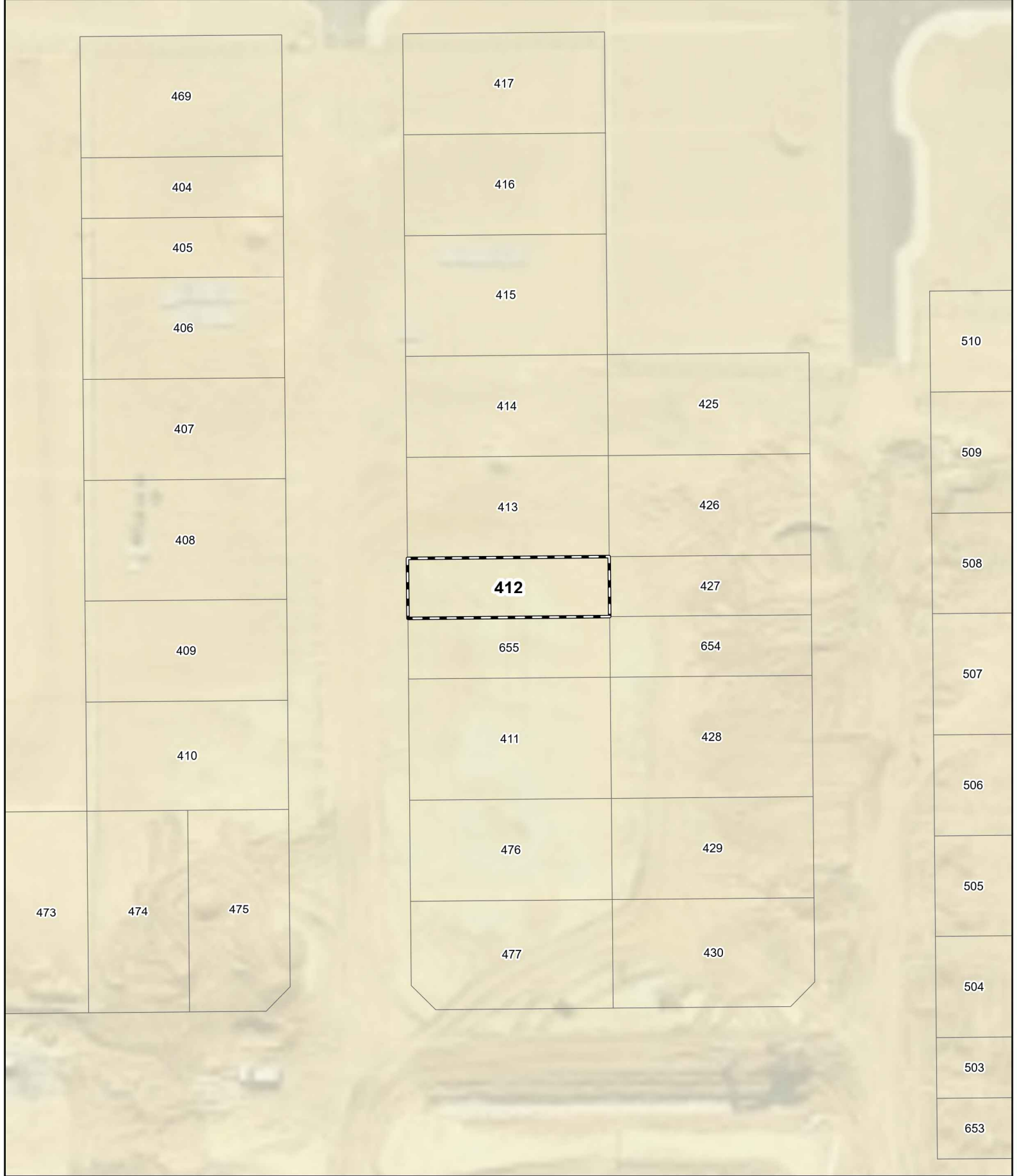
Signature: 

Certificate Date: 10/06/2021



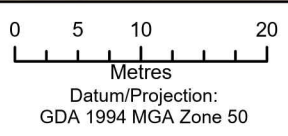
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 412 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 413, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

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Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



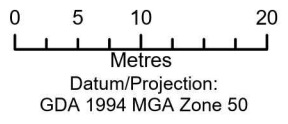
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 413 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 414, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

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Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 414 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



0 5 10 20
Metres
Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 415, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

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Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 415 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
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 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



0 5 10 20
Metres
Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

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Site Details

Address:	Lot 416, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

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Signature: 

Certificate Date: 10/06/2021









Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 416 (BAL - LOW)



- Legend**
-  Lot boundary
 -  100m site assessment
 -  150m site assessment

- Bushfire Attack Level (BAL)**
-  BAL - FZ
 -  BAL - 40
 -  BAL - 29
 -  BAL - 19
 -  BAL - 12.5
 -  BAL - LOW



0 5 10 20
Metres
Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

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Site Details

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Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 417 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



0 5 10 20
Metres
Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 425, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



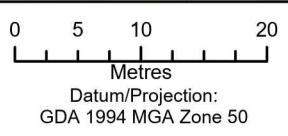
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 425 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



eco logical AUSTRALIA
A TETRA TECH COMPANY

Project: 19113-SM Date: 10/06/2021

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 426, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 


Certificate Date: 10/06/2021









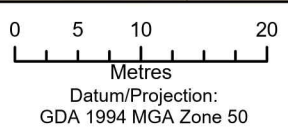
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 426 (BAL - LOW)



- Legend**
-  Lot boundary
 -  100m site assessment
 -  150m site assessment

- Bushfire Attack Level (BAL)**
-  BAL - FZ
 -  BAL - 40
 -  BAL - 29
 -  BAL - 19
 -  BAL - 12.5
 -  BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 427, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



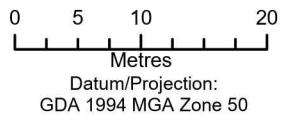
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 427 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 428, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



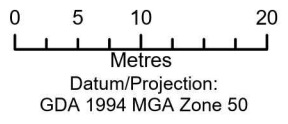
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 428 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 429, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



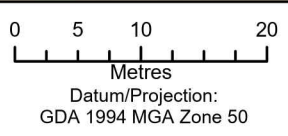
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 429 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 430, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021









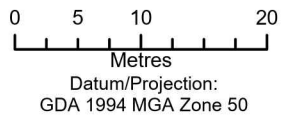
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 430 (BAL - LOW)



- Legend**
-  Lot boundary
 -  100m site assessment
 -  150m site assessment

- Bushfire Attack Level (BAL)**
-  BAL - FZ
 -  BAL - 40
 -  BAL - 29
 -  BAL - 19
 -  BAL - 12.5
 -  BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 469, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



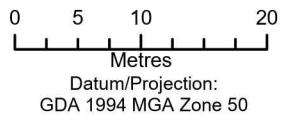
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 469 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 472, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021






Accreditation No: BPAD 37802
Accreditation Expiry: December 2021







Bushfire Attack Level Certificate - Lot 472 (BAL - LOW)

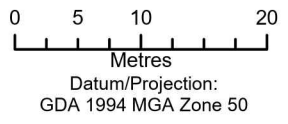


Legend

-  Lot boundary
-  100m site assessment
-  150m site assessment

Bushfire Attack Level (BAL)

-  BAL - FZ
-  BAL - 40
-  BAL - 29
-  BAL - 19
-  BAL - 12.5
-  BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 473, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 473 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



0 5 10 20
Metres
Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 474, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 474 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



0 5 10 20
Metres
Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 475, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021






Accreditation No: BPAD 37802
Accreditation Expiry: December 2021







Bushfire Attack Level Certificate - Lot 475 (BAL - LOW)

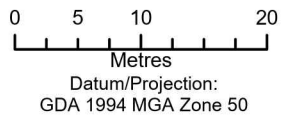


Legend

-  Lot boundary
-  100m site assessment
-  150m site assessment

Bushfire Attack Level (BAL)

-  BAL - FZ
-  BAL - 40
-  BAL - 29
-  BAL - 19
-  BAL - 12.5
-  BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 476, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021






Accreditation No: BPAD 37802
Accreditation Expiry: December 2021







Bushfire Attack Level Certificate - Lot 476 (BAL - LOW)

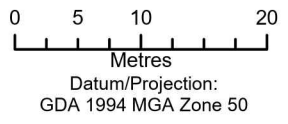


Legend

-  Lot boundary
-  100m site assessment
-  150m site assessment

Bushfire Attack Level (BAL)

-  BAL - FZ
-  BAL - 40
-  BAL - 29
-  BAL - 19
-  BAL - 12.5
-  BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 477, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 


Certificate Date: 10/06/2021









Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 477 (BAL - LOW)



- Legend**
-  Lot boundary
 -  100m site assessment
 -  150m site assessment

- Bushfire Attack Level (BAL)**
-  BAL - FZ
 -  BAL - 40
 -  BAL - 29
 -  BAL - 19
 -  BAL - 12.5
 -  BAL - LOW



0 5 10 20
Metres
Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 503, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 503 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



0 5 10 20
Metres
Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 504, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



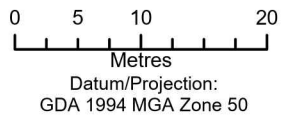
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 504 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 505, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021









Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 505 (BAL - LOW)



- Legend**
-  Lot boundary
 -  100m site assessment
 -  150m site assessment

- Bushfire Attack Level (BAL)**
-  BAL - FZ
 -  BAL - 40
 -  BAL - 29
 -  BAL - 19
 -  BAL - 12.5
 -  BAL - LOW



0 5 10 20
Metres
Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 506, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



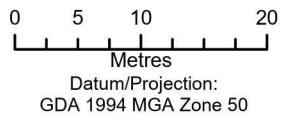
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 506 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



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A TETRA TECH COMPANY

Project: 19113-SM Date: 10/06/2021

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 507, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



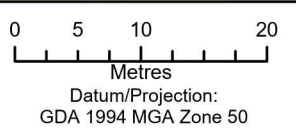
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 507 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 508, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 508 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



0 5 10 20
Metres
Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 509, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021









Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 509 (BAL - LOW)



- Legend**
-  Lot boundary
 -  100m site assessment
 -  150m site assessment

- Bushfire Attack Level (BAL)**
-  BAL - FZ
 -  BAL - 40
 -  BAL - 29
 -  BAL - 19
 -  BAL - 12.5
 -  BAL - LOW



0 5 10 20
Metres
Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 510, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021









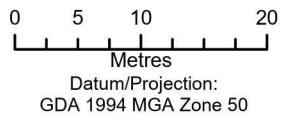
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 510 (BAL - LOW)



- Legend**
-  Lot boundary
 -  100m site assessment
 -  150m site assessment

- Bushfire Attack Level (BAL)**
-  BAL - FZ
 -  BAL - 40
 -  BAL - 29
 -  BAL - 19
 -  BAL - 12.5
 -  BAL - LOW



Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 653, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 


Certificate Date: 10/06/2021









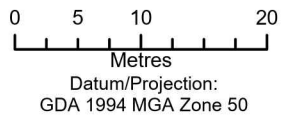
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 653 (BAL - LOW)



- Legend**
-  Lot boundary
 -  100m site assessment
 -  150m site assessment

- Bushfire Attack Level (BAL)**
-  BAL - FZ
 -  BAL - 40
 -  BAL - 29
 -  BAL - 19
 -  BAL - 12.5
 -  BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 654, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



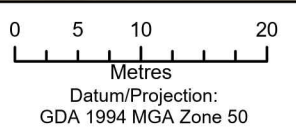
Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 654 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2009

Site Details

Address:	Lot 655, Beenyup Grove Estate		
Suburb:	Byford, 6122	State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	21PER-19133	Report Date:	10/06/2021

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	N/A	BAL - LOW

Practitioner Details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009.

Name Daniel Panickar
Eco Logical Australia

Signature: 

Certificate Date: 10/06/2021



Accreditation No: BPAD 37802
Accreditation Expiry: December 2021

Bushfire Attack Level Certificate - Lot 655 (BAL - LOW)



- Legend**
- Lot boundary
 - 100m site assessment
 - 150m site assessment

- Bushfire Attack Level (BAL)**
- BAL - FZ
 - BAL - 40
 - BAL - 29
 - BAL - 19
 - BAL - 12.5
 - BAL - LOW



0 5 10 20
Metres
Datum/Projection:
GDA 1994 MGA Zone 50

