

Bushfire Attack Level (BAL) Assessment Report for Lot 313 Beenyup Grove Stage 9, Byford

Site Details			
Address: Lots 301-316 and 381-	485 Beenyup Grove Estate		
Suburb:	Byford, 6122	State	Western Australia
Local Government Area:	Shire of Serpentine Jarrahdale		
Description of building works:	Residential Dwellings		

Report details				
Report/Job number:	21PER-19133	Report version:	v1	
Assessment date:	3/09/2021	Report date:	15/09/2021	
Author:	Maitland Ely	Review:	Daniel Panickar 37802)	(BPAD Level 3-



SITE ASSESSMENT AND SITE PLAN

The assessment of the subject lots was undertaken on 3 September 2021 for the purpose of determining the Bushfire Attack Level (BAL) in accordance with *Australian Standard AS 3959: 2018 Construction of Buildings in Bushfire Prone Areas* (SA 2018) Simplified Procedure (Method 1). An overview of the site is presented in Figure 1.

VEGETATION CLASSIFICATION

All vegetation within 100 m of the subject lots was classified in accordance with Clause 2.2.3 of AS 3959: 2018. Each distinguishable vegetation class with the potential to determine the BAL is identified below and presented in Figure 1.

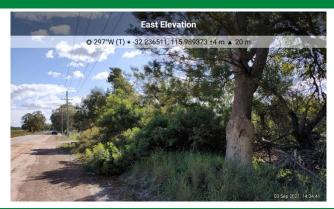
Plot 1 Classification or Exclusion Clause

Class D Scrub

Photo Point 1

Classified vegetation within this plot is comprised of shrubs greater than 2m high with foliage cover greater than 30%.

Slope under this vegetation was recorded as upslope/flat land.



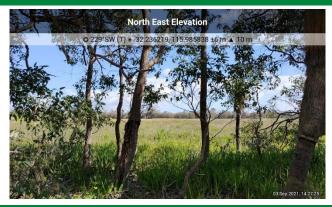
Plot 2 Classification or Exclusion Clause

Class G Grassland

Photo Point 2

Classified vegetation within this plot is comprised of grasses.

Slope under this vegetation was recorded as upslope/flat land.



Plot 2 Classification or Exclusion Clause

Class G Grassland

Photo Point 3

Classified vegetation within this plot is comprised of grasses.

Slope under this vegetation was recorded as upslope/flat land.



Plot 2 Classification or Exclusion Clause

Class G Grassland

Photo Point 4

Classified vegetation within this plot is comprised of grasses.

Slope under this vegetation was recorded as upslope/flat land.



Plot 2 Classification or Exclusion Clause

Class G Grassland

Photo Point 5

Classified vegetation within this plot is comprised of grasses and isolated shrubs.

Slope under this vegetation was recorded as upslope/flat land.



Plot 2 Classification or Exclusion Clause

Class G Grassland

Photo Point 6

Non-vegetated area that is permanently cleared of vegetation for future development.



Plot 3 Classification or Exclusion Clause

Excluded AS 3959-2018 2.2.3.2 (e) & (f)

Photo Point 7

Non-vegetated area that is permanently cleared of vegetation for future development.



Plot 3 Classification or Exclusion Clause

Excluded AS 3959-2018 2.2.3.2 (e) & (f)

Photo Point 8

Non-vegetated area that is permanently cleared of vegetation, currently containing roads.



Plot 3 Classification or Exclusion Clause

Excluded AS 3959-2018 2.2.3.2 (e) & (f)

Photo Point 9

Vegetation present has been excluded as it is regarded as low threat due to it being managed, grazed grass.

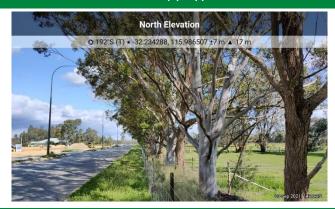


Plot 3 Classification or Exclusion Clause

Excluded AS 3959-2018 2.2.3.2 (e) & (f)

Photo Point 10

Vegetation present has been excluded as it is regarded as low threat due to it being managed, grazed grass with a windbreak.



Plot 3 Classification or Exclusion Clause

Excluded AS 3959-2018 2.2.3.2 (e) & (f)

Photo Point 11

Vegetation present has been excluded as it is regarded as low threat due to it being managed, grazed grass.



Plot 3 Classification or Exclusion Clause

Excluded AS 3959-2018 2.2.3.2 (e) & (f)

Photo Point 12

Vegetation present has been excluded as it is regarded as low threat due to it being managed, grazed grass with a windbreak.



Plot 3 Classification or Exclusion Clause

Excluded AS 3959-2018 2.2.3.2 (e) & (f)

Photo Point 13

Vegetation present has been excluded as it is regarded as low threat due to it being managed, grazed grass with a windbreak.



RELEVANT FIRE DANGER INDEX

The fire danger index for this site has been determined in accordance with Table 2.1 of AS 3959: 2018.

Relevant Fire Danger Index				
FDI 40 □	FDI 50 □	FDI 80 ☑	FDI 100 □	
Table 2.4.5	Table 2.4.4	Table 2.4.3	Table 2.4.2	

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: 2018

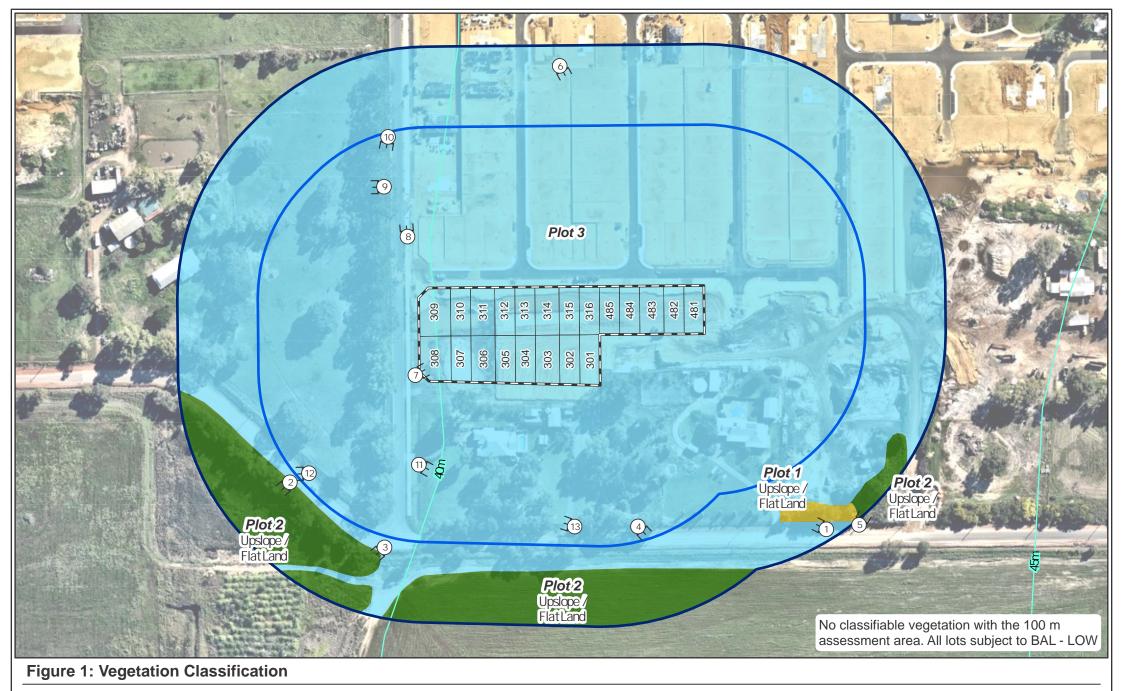
Plot	Separation distances required						
PIOL	Plot Vegetation Classification	Effective Slope	BAL-FZ	BAL-40	BAL-29	BAL-19	BAL-12.5
1	Class D Scrub	All upslopes and flat land (0 degrees)	<10	10-<13	13-<19	19-<27	27-<100
2	Class G Grassland	All upslopes and flat land (0 degrees)	<6	6-<8	8-<12	12-<17	17-<50
3	Excluded AS 3959: 2018 2.2.3.2 (e) & (f)	-	N	o separation	distances requ	uired – BAL-L	OW

DETERMINED BUSHFIRE ATTACK LEVEL (BAL)

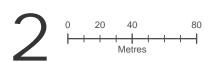
The determined Bushfire Attack Level (highest BAL) for the proposed works has been determined in accordance with Clause 2.2.6 of AS 3959: 2018 relevant data from the site assessment shown in Figure 1 and Table 1.

Table 2: BAL Assessment summary

BAL	Affected lots	Construction sections to be consulted in AS 3959- 2018
BAL-LOW	Lots (301-316) & (481-485)	4







Datum/Projection: GDA 1994 MGA Zone 50



Appendix A – Additional Information / Advisory Notes

This assessment was undertaken as per AS 3959: 2018. It is important that the current 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/m²	Ember attack	3 and 5
BAL-19	>12.5 kW/m2 ≤19 kW/m²	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/m2≤29 kW/m²	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/m2≤40 kW/m²	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/m²	Direct exposure to flames from fire front in addition to radiant heat flux and ember attack	3 and 9

Source: "AS 3959: 2018 Construction of buildings in bushfire-prone areas" published by Standards Australia, Sydney

Determined in accordance with AS 3959: 2018

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Suburb:	Byford, 6122	State: WA			
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Use of building	Residential Dwelling	Main BCA class:	Class 1a		
Report / Job Number:	21PER-19133	Report Date:	15/09/2021		

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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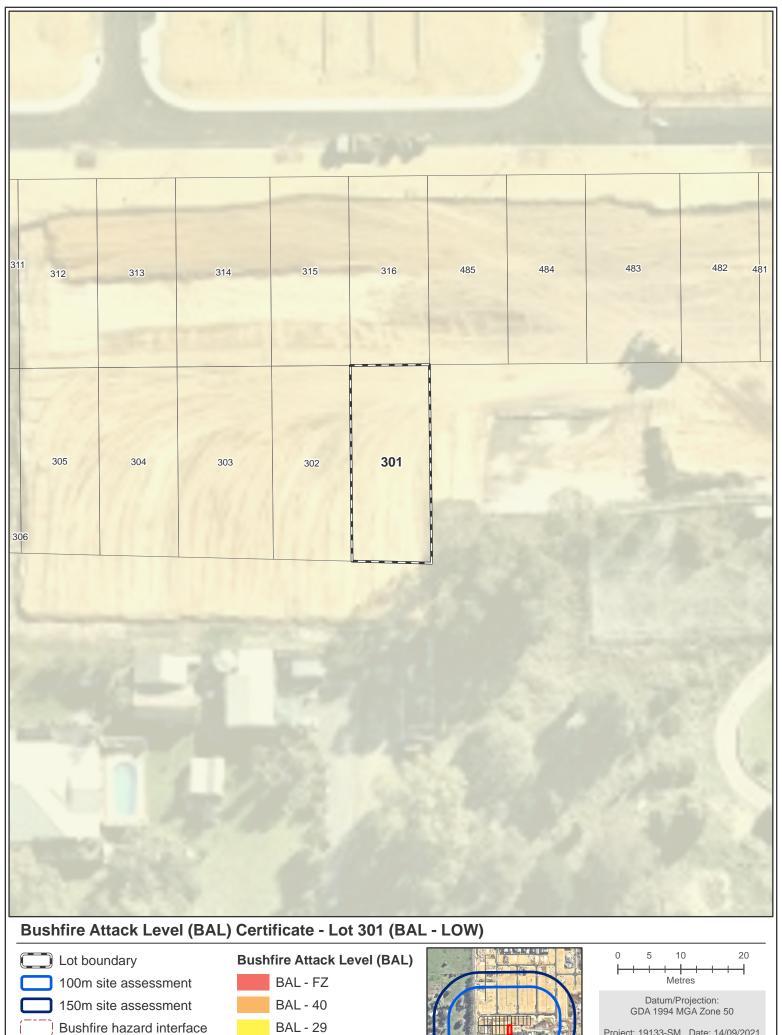
Name Daniel Panickar Eco Logical Australia

Signature:

Certificate Date: 14/09/2021

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Level 3

Accreditation No: BPAD 37802 Accreditation Expiry: December 2021



BAL - 19 BAL - 12.5 BAL - LOW Determined in accordance with AS 3959: 2018

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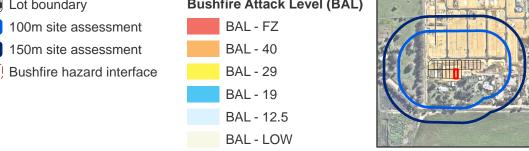
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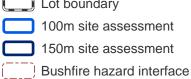
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BAL - 40

BAL - 29

BAL - 19 BAL - 12.5

BAL - LOW



Datum/Projection: GDA 1994 MGA Zone 50



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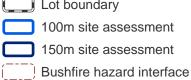
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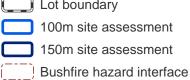
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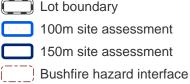
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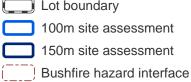
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BAL - FZ

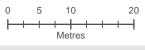
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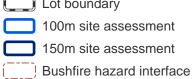
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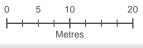
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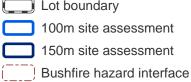
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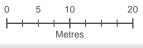
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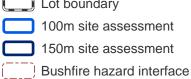
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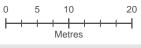
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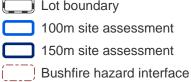
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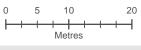
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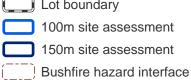
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Certificate Date: 14/09/2021 Accreditation Expiry: December 2021

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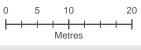


BAL - 29 BAL - 19

BAL - 12.5

BAL - LOW





Datum/Projection: GDA 1994 MGA Zone 50



Determined in accordance with AS 3959: 2018

Site Details						
Address:	Lot 316, Beenyup Grove, Stage 9					
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:	15/09/2021			

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: 2018.

Planning & Design Accredited Practitioner

Name Daniel Panickar Eco Logical Australia

Signature:





Determined in accordance with AS 3959: 2018

Site Details						
Address:	Lot 481, Beenyup Grove, Stage 9					
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:	15/09/2021			

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: 2018.

Name Daniel Panickar Eco Logical Australia

Signature:

Accreditation No: BPAD 37802

Certificate Date: 14/09/2021 Accreditation Expiry: December 2021

Planning & Design Accredited Practitioner



BAL - 19 BAL - 12.5 BAL - LOW



Determined in accordance with AS 3959: 2018

Site Details					
Address:	Lot 482, Beenyup Grove, Stage 9				
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:	15/09/2021		

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: 2018.

Planning & Design Accredited Practitioner

Name Daniel Panickar Eco Logical Australia

Signature:





Project: 19133-SM Date: 14/09/2021

Bushfire hazard interface

BAL - 29

BAL - 19

BAL - 12.5

BAL - LOW

Determined in accordance with AS 3959: 2018

Site Details					
Address:	Lot 483, Beenyup Grove, Stage 9				
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:	15/09/2021		

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: 2018.

Name Daniel Panickar Eco Logical Australia

Signature:

Certificate Date: 14/09/2021

BPAD
Bushfire
Planning & Design
Accredited Practitioner
Level 3

Accreditation No: BPAD 37802 Accreditation Expiry: December 2021





BAL - 19

BAL - 12.5

BAL - LOW





Determined in accordance with AS 3959: 2018

Site Details					
Address:	Lot 484, Beenyup Grove, Stage 9				
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:	15/09/2021		

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

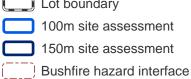
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959: 2018.

Planning & Design Accredited Practitioner

Name Daniel Panickar Eco Logical Australia

Signature:





BAL - 19 BAL - 12.5

BAL - LOW





Determined in accordance with AS 3959: 2018

Site Details						
Address:	Lot 485, Beenyup Grove, Stage 9					
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:	15/09/2021			

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: 2018.

Planning & Design Accredited Practitioner

Name Daniel Panickar Eco Logical Australia

Signature:



BAL - 19 BAL - 12.5 BAL - LOW

