

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 321, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	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:** 21/01/2022









Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022

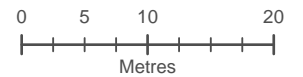


**Bushfire Attack Level (BAL) Certificate - Lot 321 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

**Bushfire Attack Level (BAL)**

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



Datum/Projection:  
GDA 1994 MGA Zone 50

Project: 20840-RD Date: 20/01/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 328, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	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:** 21/01/2022









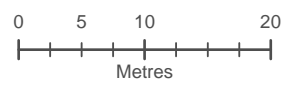
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Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 328 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 383, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	BAL - LOW

## Practitioner Details

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**Name** Daniel Panickar  
*Eco Logical Australia*

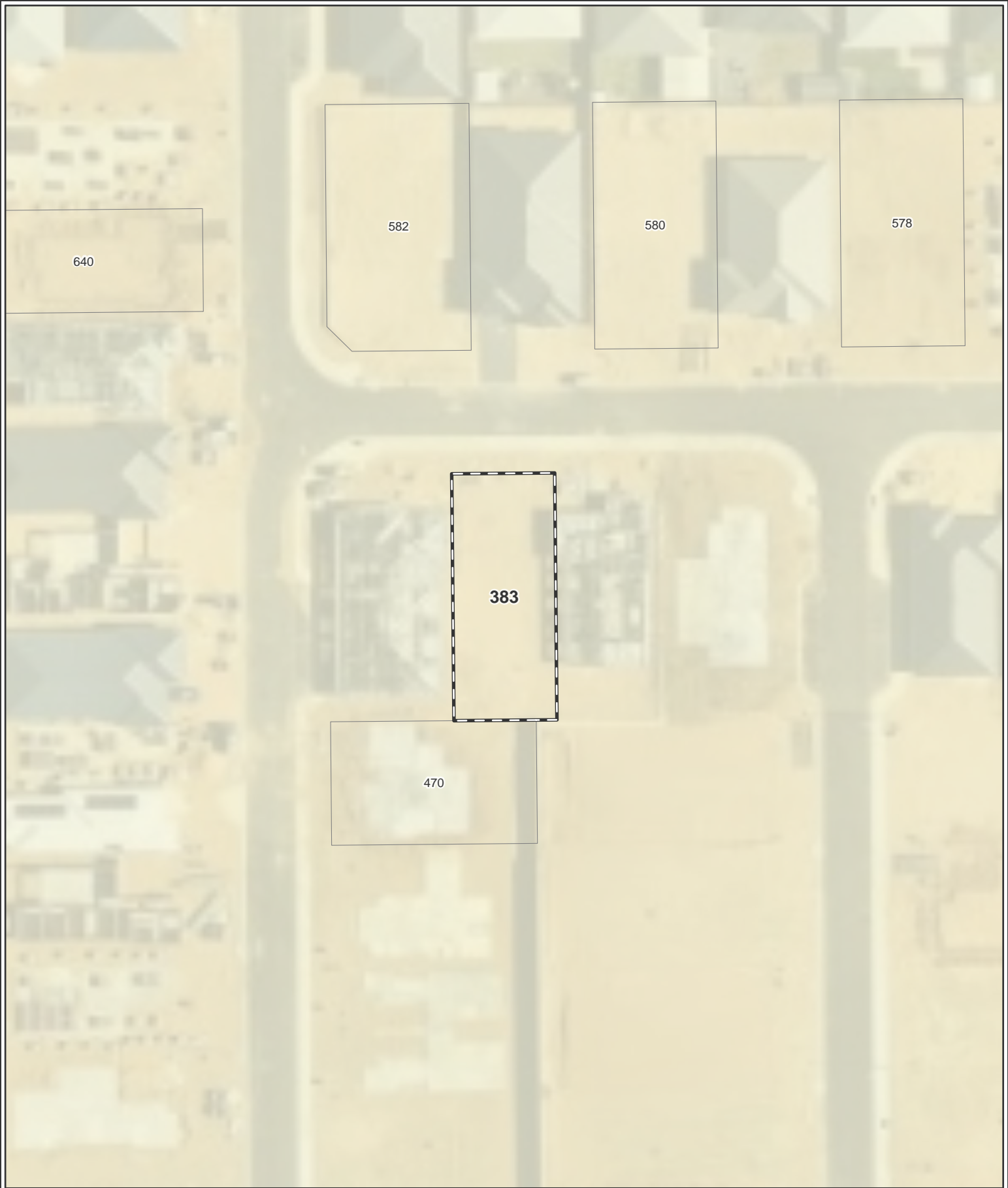
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**Certificate Date:** 21/01/2022













Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022

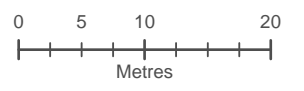




**Bushfire Attack Level (BAL) Certificate - Lot 383 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 402, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	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:** 21/01/2022







Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022









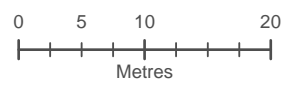
578

402

**Bushfire Attack Level (BAL) Certificate - Lot 402 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022





# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 424, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	BAL - LOW

## Practitioner Details

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**Name** Daniel Panickar  
*Eco Logical Australia*

**Signature:** 

**Certificate Date:** 21/01/2022







Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022









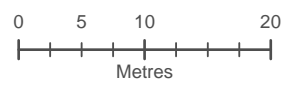
513

424

**Bushfire Attack Level (BAL) Certificate - Lot 424 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 470, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	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:** 21/01/2022









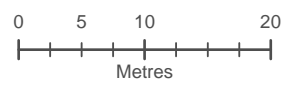
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Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 470 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022





# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 513, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	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.

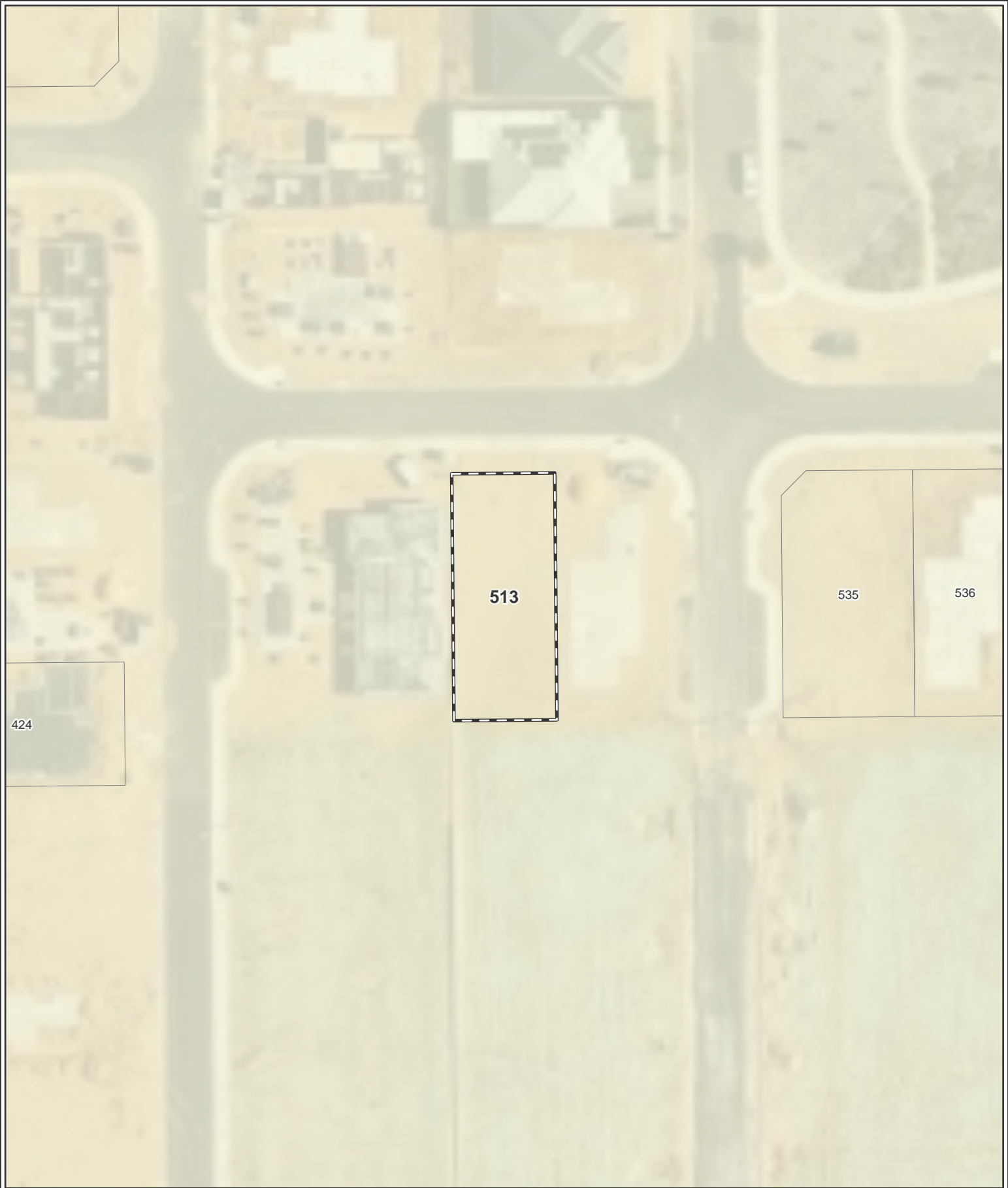
**Name** Daniel Panickar  
*Eco Logical Australia*

**Signature:** 





**Certificate Date:** 21/01/2022









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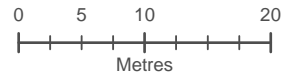


**Bushfire Attack Level (BAL) Certificate - Lot 513 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

**Bushfire Attack Level (BAL)**

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 535, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	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:** 21/01/2022









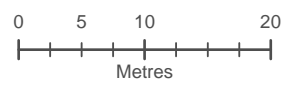
Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 535 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022





# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 536, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	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:** 21/01/2022









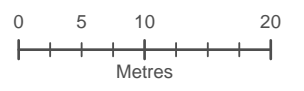
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Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 536 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 558, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	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:** 21/01/2022









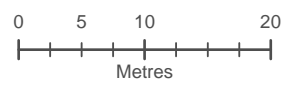
Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 558 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022





# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 560, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	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.

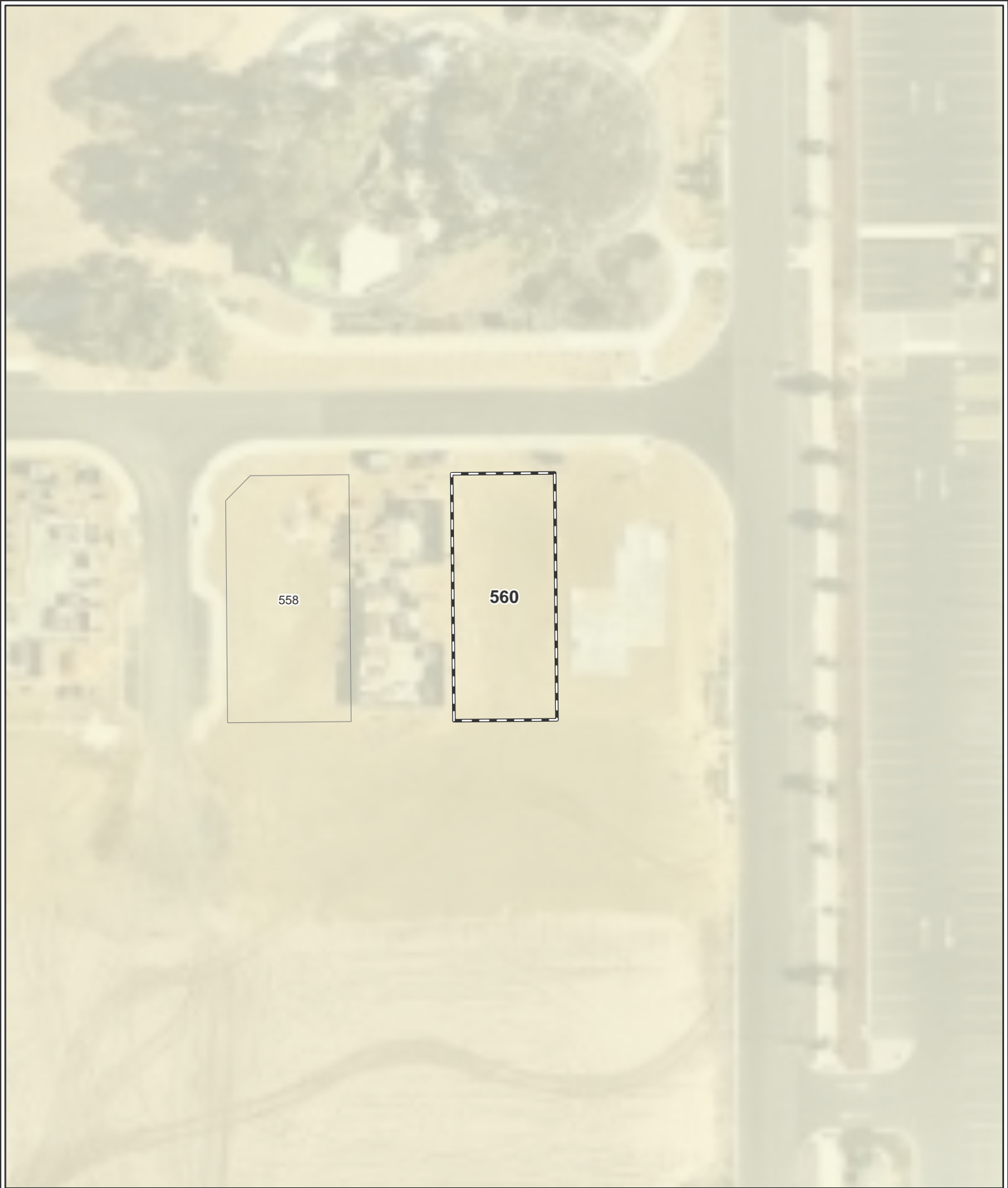
**Name** Daniel Panickar  
*Eco Logical Australia*

**Signature:** 





**Certificate Date:** 21/01/2022









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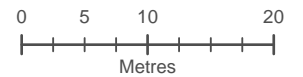


**Bushfire Attack Level (BAL) Certificate - Lot 560 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

**Bushfire Attack Level (BAL)**

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



Datum/Projection:  
GDA 1994 MGA Zone 50

Project: 20840-RD Date: 20/01/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 571, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	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:** 21/01/2022









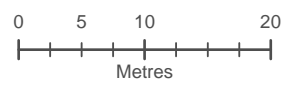
Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 571 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022





# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 578, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	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:** 21/01/2022









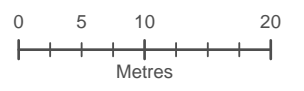
Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 578 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 580, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	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.

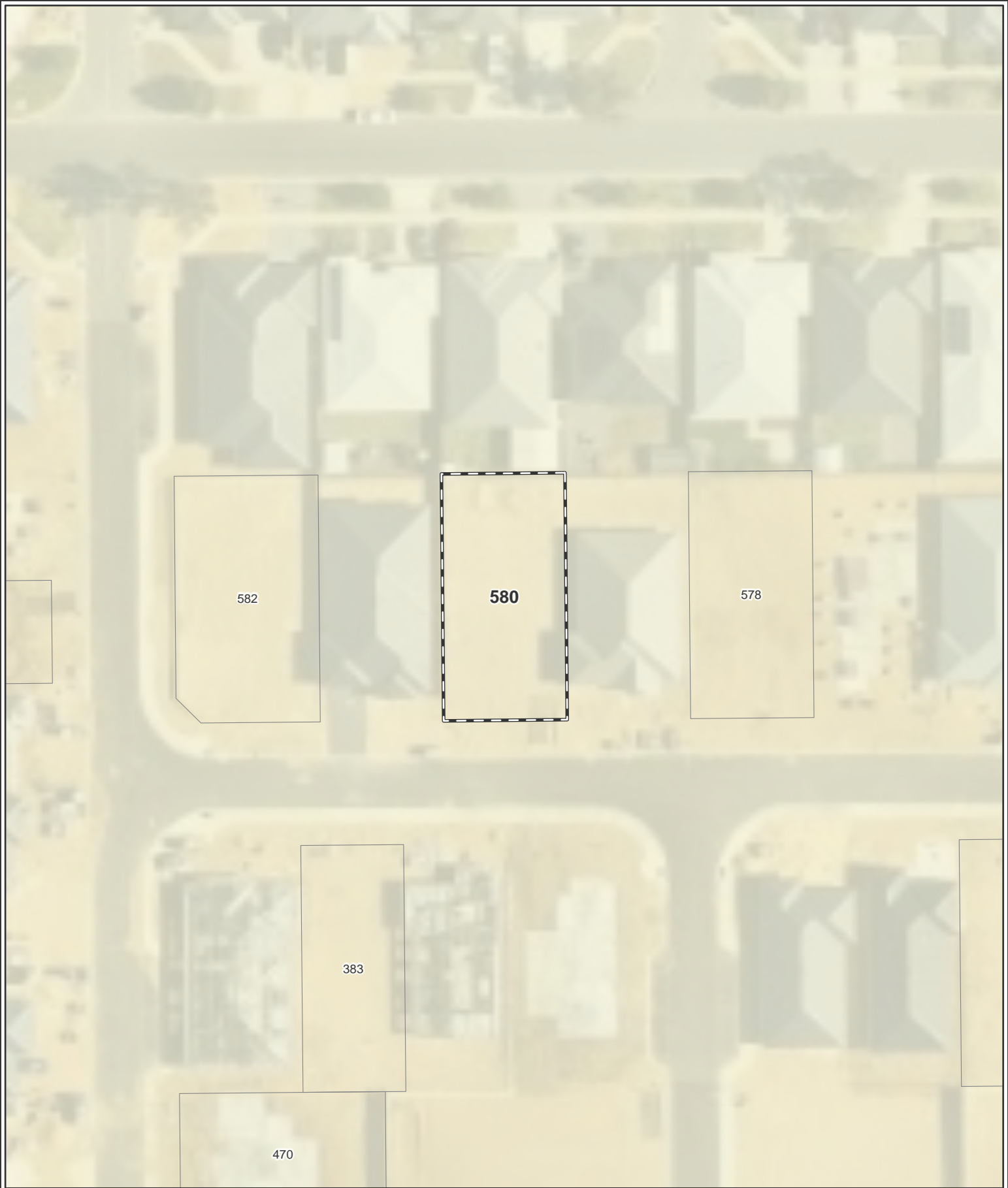
**Name** Daniel Panickar  
*Eco Logical Australia*

**Signature:** 





**Certificate Date:** 21/01/2022









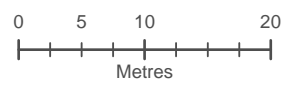
Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 580 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022





# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 582, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	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:** 21/01/2022









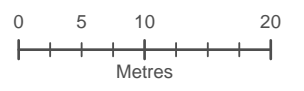
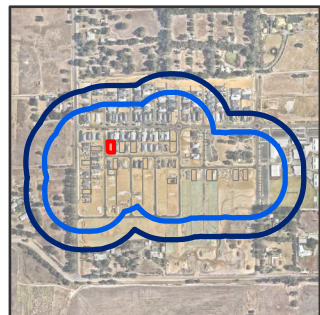
Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 582 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 594, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	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:** 21/01/2022









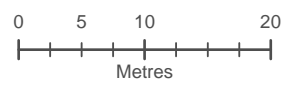
Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 594 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022





# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

<b>Address:</b>	Lot 640, Beenyup Grove Estate Stage 4/5		
<b>Suburb:</b>	Byford, 6122	<b>State:</b>	WA
<b>Local Government Area:</b>	Shire of Serpentine Jarrahdale		
<b>Use of building</b>	Residential Dwelling	<b>Main BCA class:</b>	Class 1a
<b>Report / Job Number:</b>	21PER-20840	<b>Report Date:</b>	21/01/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	N/A	N/A	>100 m	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:** 21/01/2022









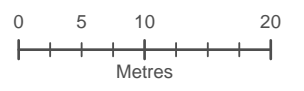
Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 640 (BAL - LOW)**

-  Lot boundary
-  100m site assessment
-  150m site assessment
-  Bushfire hazard interface

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022



## Bushfire Attack Level (BAL) Assessment Report for Beenyup Estate Stage 4/5, Byford

### Site Details

**Address:** Beenyup Estate Stages 4 and 5

Lots 321, 328, 383, 402, 424, 470, 513, 535, 536, 558, 560, 571, 578, 580, 582, 594 & 640

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

**Local Government Area:** Shire of Serpentine Jarrahdale

**Description of building works:** Residential developments

### Report details

<b>Report/Job number:</b>	21PER-20840	<b>Report version:</b>	v1
<b>Assessment date:</b>	19/01/2022	<b>Report date:</b>	21/01/2022
<b>Author:</b>	Maitland Ely	<b>Review:</b>	Daniel Panickar (BPAD Level 3-37802)



### SITE ASSESSMENT AND SITE PLAN

The assessment of the subject lots was undertaken on 19 January 2022 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 17 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 Excluded AS 3959-2018 2.2.3.2 (e) & (f)**

**Photo Point 1**  
 This plot has been excluded under Clause 2.2.3.2 (e) and (f) of AS 3959: 2018. This is a maintained adjacent property.



**Plot 1 Classification or Exclusion Clause Excluded AS 3959-2018 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: 2018. This is a maintained adjacent property.



**Plot 1 Classification or Exclusion Clause Excluded AS 3959-2018 2.2.3.2 (e) & (f)**

**Photo Point 3**  
 This plot has been excluded under Clause 2.2.3.2 (e) and (f) of AS 3959: 2018. This is a maintained adjacent property.





**Plot 1 Classification or Exclusion Clause Excluded AS 3959-2018 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: 2018. This is a maintained adjacent property.



**Plot 1 Classification or Exclusion Clause Excluded AS 3959-2018 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: 2018. This is a maintained adjacent property.



**Plot 1 Classification or Exclusion Clause Excluded AS 3959-2018 2.2.3.2 (e) & (f)**

**Photo Point 6**

This plot has been excluded under Clause 2.2.3.2 (e) and (f) of AS 3959: 2018. This is an area of cleared maintained vegetation as it is parkland.



**Plot 1 Classification or Exclusion Clause**

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

**Photo Point 7**

This plot has been excluded under Clause 2.2.3.2 (e) and (f) of AS 3959: 2018. This is an area of low threat, maintained landscaping and a playground.

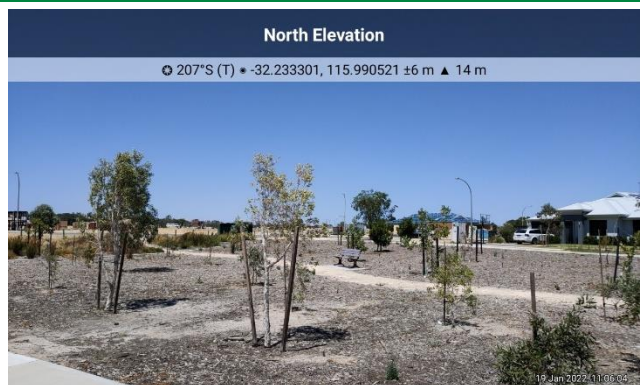


**Plot 1 Classification or Exclusion Clause**

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

**Photo Point 8**

This plot has been excluded under Clause 2.2.3.2 (e) and (f) of AS 3959: 2018. This is an area of low threat, maintained landscaping.



**Plot 1 Classification or Exclusion Clause**

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

**Photo Point 9**

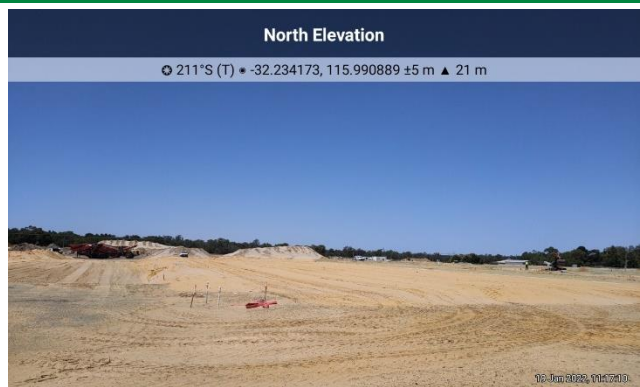
This plot has been excluded under Clause 2.2.3.2 (e) and (f) of AS 3959: 2018. This is an area that has been cleared for construction and development.



**Plot 1 Classification or Exclusion Clause Excluded AS 3959-2018 2.2.3.2 (e) & (f)**

**Photo Point 10**

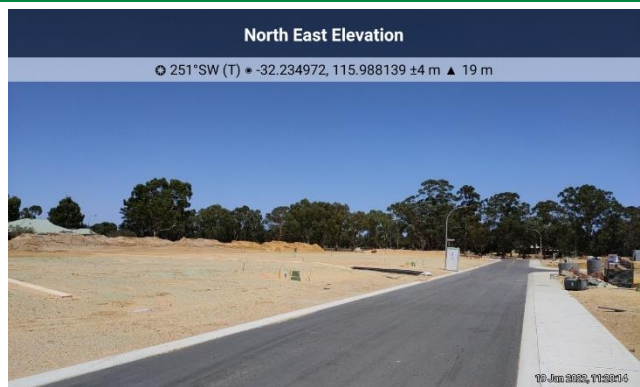
This plot has been excluded under Clause 2.2.3.2 (e) and (f) of AS 3959: 2018. This is an area that has been cleared for construction and development.



**Plot 1 Classification or Exclusion Clause Excluded AS 3959-2018 2.2.3.2 (e) & (f)**

**Photo Point 11**

This plot has been excluded under Clause 2.2.3.2 (e) and (f) of AS 3959: 2018. This is an area that has been cleared for construction, development and roads.



**Plot 1 Classification or Exclusion Clause Excluded AS 3959-2018 2.2.3.2 (e) & (f)**

**Photo Point 12**

This plot has been excluded under Clause 2.2.3.2 (e) and (f) of AS 3959: 2018. This is an area that has been cleared and is residential housing, paths and roads.



## 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 <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: 2018**

Plot	Vegetation Classification	Effective Slope	Separation distances required				
			BAL-FZ	BAL-40	BAL-29	BAL-19	BAL-12.5
1	Excluded AS 3959-2018 2.2.3.2 (e) & (f)	-	No separation distances required – BAL-LOW				



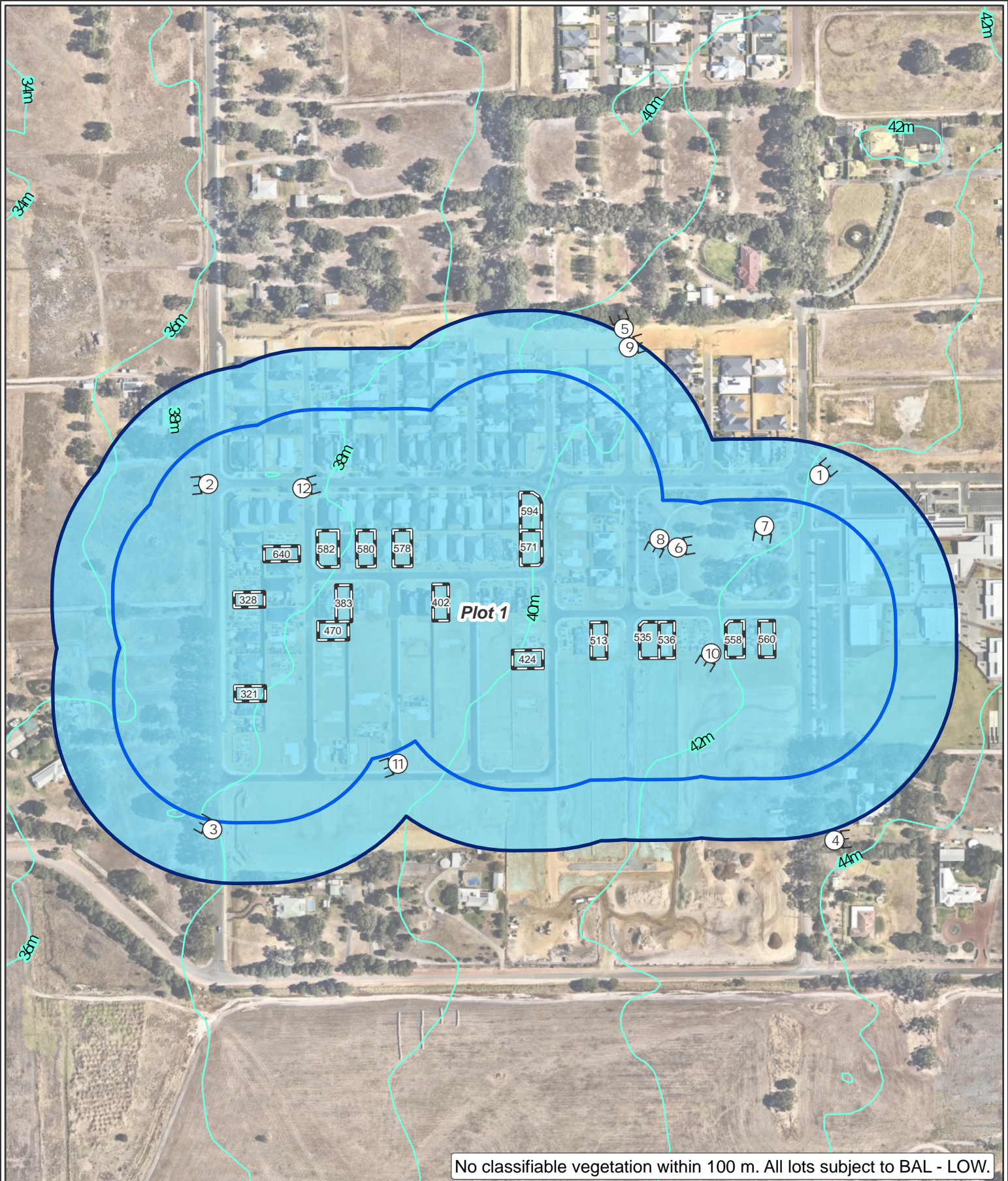
**DETERMINED BUSHFIRE ATTACK LEVEL (BAL)**

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 as shown in Figure 1 and Table 2. All proposed lots are subject to a BAL rating of BAL-LOW.

**Table 2: BAL Assessment summary**





BAL	Affected lots	Construction sections to be consulted in AS 3959-2018
BAL-LOW	Lots 321, 328,383, 402, 424, 470, 513, 535, 536, 558, 560, 571, 578, 580, 582, 594 & 640	3 and 4


Note: This BAL rating is based on the information current at the date of this document and is valid for 12 months.




No classifiable vegetation within 100 m. All lots subject to BAL - LOW.

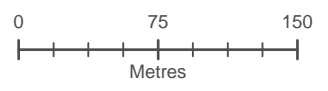
**Figure 1: Vegetation Classification**

-  Subject site
-  100m site assessment
-  150m site assessment
-  Contour (2m)

-  Photo location

**Vegetation classification**

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
Project: 20840-RD Date: 20/01/2022



## 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/m <sup>2</sup>	Ember attack	3 and 5
BAL-19	>12.5 kW/m <sup>2</sup> ≤19 kW/m <sup>2</sup>	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 <sup>2</sup> ≤29 kW/m <sup>2</sup>	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 <sup>2</sup> ≤40 kW/m <sup>2</sup>	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 <sup>2</sup>	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