

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 456, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## 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: 2/06/2022



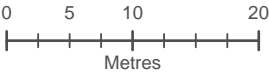
Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 456 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 457, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## 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

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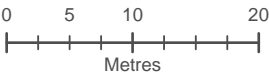
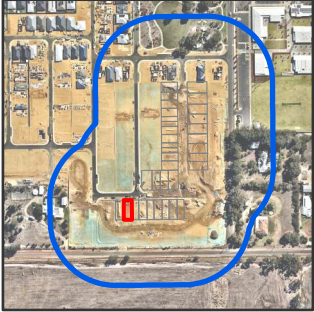
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**Bushfire Attack Level (BAL) Certificate - Lot 457 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 458, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022


## 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

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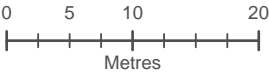
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**Bushfire Attack Level (BAL) Certificate - Lot 458 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 459, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## 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

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Certificate Date: 2/06/2022



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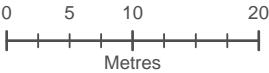




**Bushfire Attack Level (BAL) Certificate - Lot 459 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 460, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## 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

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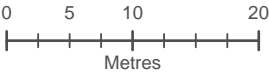
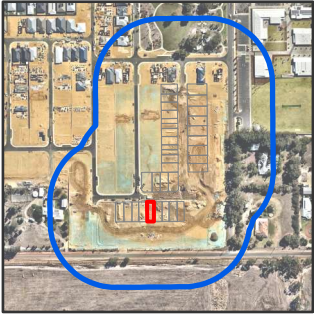
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Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 460 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 461, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## 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

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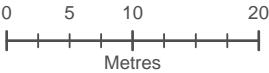
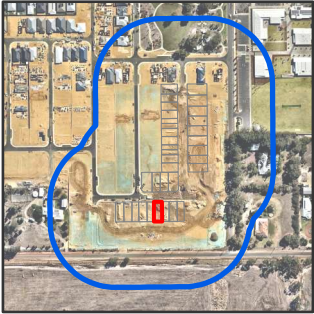




**Bushfire Attack Level (BAL) Certificate - Lot 461 (BAL - LOW)**

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

- Bushfire Attack Level (BAL)**
- BAL - FZ
  - BAL - 40
  - BAL - 29
  - BAL - 19
  - BAL - 12.5
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Datum/Projection:  
GDA 1994 MGA Zone 50  
22PER2700-SM Date: 2/06/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 462, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

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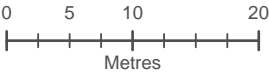
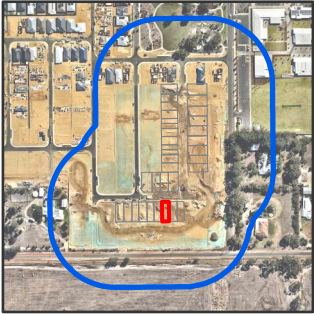
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Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 462 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 463, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

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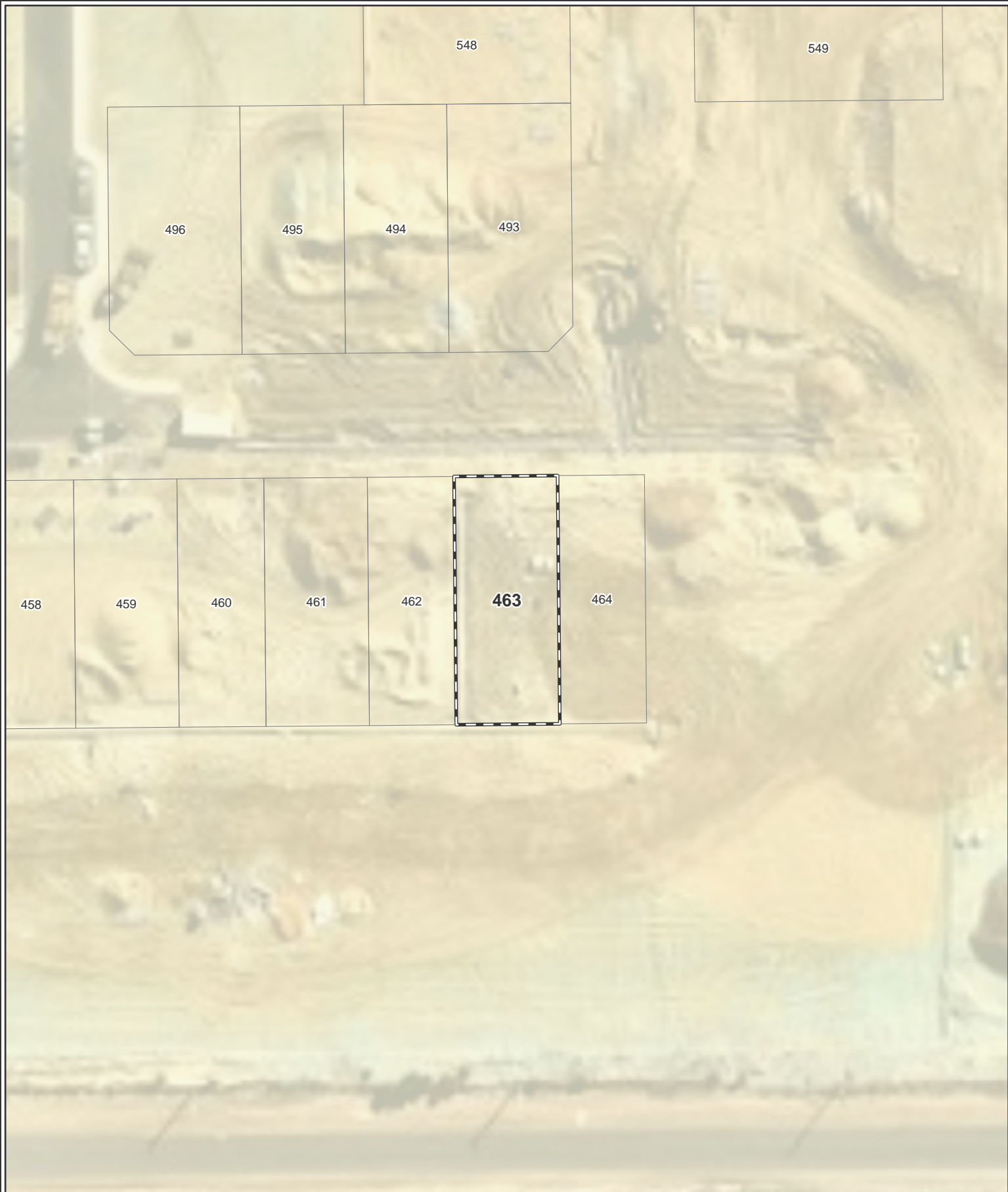
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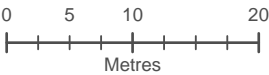
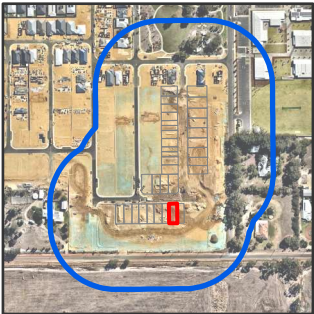




**Bushfire Attack Level (BAL) Certificate - Lot 463 (BAL - LOW)**

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

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



Datum/Projection:  
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22PER2700-SM Date: 2/06/2022



# Bushfire Attack Level (BAL) Certificate

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Address:	Lot 464, North of Orton Road (Stage 10)		
Suburb:	Byford, 6122	State:	WA
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Report / Job Number:	22PER-2700	Report Date:	2/06/2022


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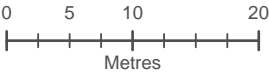
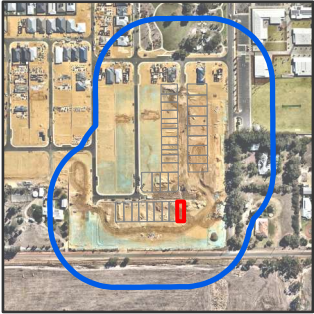


**Bushfire Attack Level (BAL) Certificate - Lot 464 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 467, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

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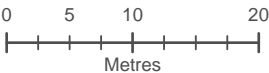
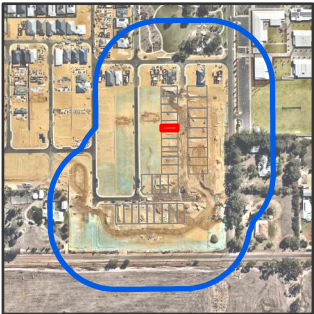
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**Bushfire Attack Level (BAL) Certificate - Lot 467 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 493, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## 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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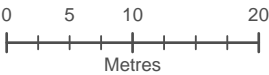
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Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 493 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 494, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## 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

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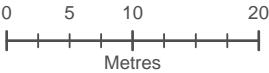




**Bushfire Attack Level (BAL) Certificate - Lot 494 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 495, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

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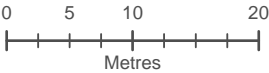
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**Bushfire Attack Level (BAL) Certificate - Lot 495 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 496, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

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Method 1	N/A	N/A	>100 m	BAL - LOW

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

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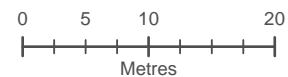


## Bushfire Attack Level (BAL) Certificate - Lot 496 (BAL - LOW)

-  Lot boundary
-  100m 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

22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 539, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## Determination of Highest Bushfire Attack Level

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Method 1	N/A	N/A	>100 m	BAL - LOW

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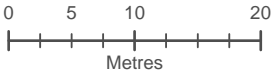




**Bushfire Attack Level (BAL) Certificate - Lot 539 (BAL - LOW)**

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

- Bushfire Attack Level (BAL)**
- BAL - FZ
  - BAL - 40
  - BAL - 29
  - BAL - 19
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Datum/Projection:  
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Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 540, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## 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: 2/06/2022



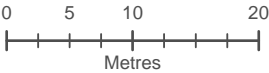
Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 540 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 541, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## 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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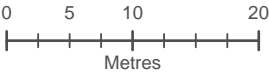
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**Bushfire Attack Level (BAL) Certificate - Lot 541 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 542, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
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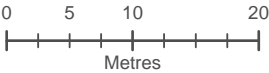
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**Bushfire Attack Level (BAL) Certificate - Lot 542 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022





# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 543, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022


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AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
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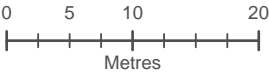
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**Bushfire Attack Level (BAL) Certificate - Lot 543 (BAL - LOW)**

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

- Bushfire Attack Level (BAL)**
- BAL - FZ
  - BAL - 40
  - BAL - 29
  - BAL - 19
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Datum/Projection:  
GDA 1994 MGA Zone 50  
22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 544, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
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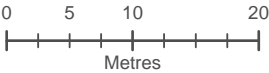
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Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 544 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022





# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 545, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

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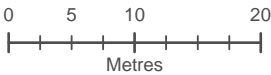
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Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 545 (BAL - LOW)**

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

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



Datum/Projection:  
GDA 1994 MGA Zone 50  
22PER2700-SM Date: 2/06/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 546, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

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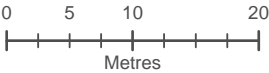
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Datum/Projection:  
GDA 1994 MGA Zone 50  
22PER2700-SM Date: 2/06/2022



# Bushfire Attack Level (BAL) Certificate

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Address:	Lot 547, North of Orton Road (Stage 10)		
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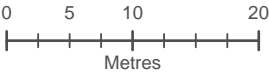
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**Bushfire Attack Level (BAL) Certificate - Lot 547 (BAL - LOW)**

- Lot boundary
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Datum/Projection:  
GDA 1994 MGA Zone 50  
22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 548, North of Orton Road (Stage 10)		
Suburb:	Byford, 6122	State:	WA
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Report / Job Number:	22PER-2700	Report Date:	2/06/2022

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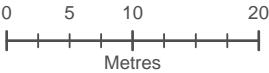




**Bushfire Attack Level (BAL) Certificate - Lot 548 (BAL - LOW)**

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

- Bushfire Attack Level (BAL)**
- BAL - FZ
  - BAL - 40
  - BAL - 29
  - BAL - 19
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Datum/Projection:  
GDA 1994 MGA Zone 50  
22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 549, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
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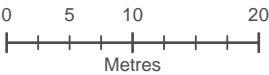
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**Bushfire Attack Level (BAL) Certificate - Lot 549 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 550, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022


## 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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Certificate Date: 2/06/2022



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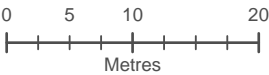




**Bushfire Attack Level (BAL) Certificate - Lot 550 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 551, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
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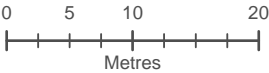
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**Bushfire Attack Level (BAL) Certificate - Lot 551 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 552, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022


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AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
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Accreditation No: BPAD 37802  
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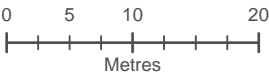




**Bushfire Attack Level (BAL) Certificate - Lot 552 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 553, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
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



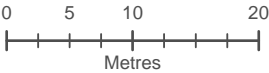
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**Bushfire Attack Level (BAL) Certificate - Lot 553 (BAL - LOW)**

-  Lot boundary
-  100m 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  
22PER2700-SM Date: 2/06/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 554, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## 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: 2/06/2022



Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022

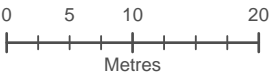




**Bushfire Attack Level (BAL) Certificate - Lot 554 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 555, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## 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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

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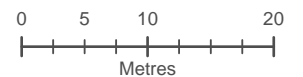


## Bushfire Attack Level (BAL) Certificate - Lot 555 (BAL - LOW)

-  Lot boundary
-  100m 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

22PER2700-SM Date: 2/06/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 556, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022


## 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: 2/06/2022



Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022

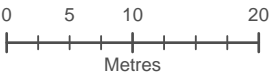




**Bushfire Attack Level (BAL) Certificate - Lot 556 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022

# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 557, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## 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: 2/06/2022



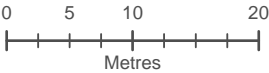
Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022



**Bushfire Attack Level (BAL) Certificate - Lot 557 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022



# Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959: 2018

## Site Details

Address:	Lot 651, North of Orton Road (Stage 10)		
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:	22PER-2700	Report Date:	2/06/2022

## 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: 2/06/2022



Accreditation No: BPAD 37802  
Accreditation Expiry: December 2022

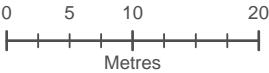




**Bushfire Attack Level (BAL) Certificate - Lot 651 (BAL - LOW)**

- Lot boundary
- 100m 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  
22PER2700-SM Date: 2/06/2022

## Bushfire Attack Level (BAL) Assessment Report for Stage 10, Byford

### Site Details

**Address:** North of Orton Road (Stage 10), Byford

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

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

**Description of building works:** Residential development (34 lots)

### Report details

<b>Report/Job number:</b>	22PER2700	<b>Report version:</b>	v1
<b>Assessment date:</b>	25/05/2022	<b>Report date:</b>	2/06/2022
<b>Author:</b>	Maitland Ely	<b>Review:</b>	Daniel Panickar (BPAD Level 3-37802)




### SITE ASSESSMENT AND SITE PLAN

The assessment of the 34 subject lots was undertaken on 25 May 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 34 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	Excluded AS 3959-2018 2.2.3.2 (c)
		<p><b>Photo Point 1</b></p> <p>This plot is comprised of grasses and isolated trees.</p> <p>This patch of vegetation extends beyond the 150 m buffer around the subject site.</p> <p>Due to this single area of vegetation being less than 0.25 ha in area and not with 20 m of other areas of vegetation or the subject site it has been excluded.</p>	
Plot	1	Classification or Exclusion Clause	Excluded AS 3959-2018 2.2.3.2 (c)
		<p><b>Photo Point 2</b></p> <p>This plot comprises vegetation that has trees between 10 m and 30 m tall with 30%-70% foliage cover. Understorey is multi-tiered containing shrubs, juvenile trees and grasses.</p> <p>This patch of vegetation extends beyond the 150 m buffer around the subject site.</p> <p>Due to this single area of vegetation being less than 0.25 ha in area and not with 20 m of other areas of vegetation or the subject site it has been excluded.</p>	
Plot	2	Classification or Exclusion Clause	Excluded AS 3959-2018 2.2.3.2 (f)
		<p><b>Photo Point 3</b></p> <p>Vegetation within this plot is regarded as low threat due to factors such as flammability, moisture content and fuel load as it is managed grass.</p>	



Plot	2	Classification or Exclusion Clause	Excluded AS 3959-2018 2.2.3.2 (f)
		<b>Photo Point 4</b> Vegetation within this plot is regarded as low threat due to factors such as flammability, moisture content and fuel load as it is managed yard.	
Plot	2	Classification or Exclusion Clause	Excluded AS 3959-2018 2.2.3.2 (f)
		<b>Photo Point 5</b> Vegetation within this plot is regarded as low threat due to factors such as flammability, moisture content and fuel load as it is managed parkland	
Plot	2	Classification or Exclusion Clause	Excluded AS 3959-2018 2.2.3.2 (e)
		<b>Photo Point 6</b> No-vegetated area that is permanently cleared of vegetation (i.e. roads and residential development).	



Plot	2	Classification or Exclusion Clause	Excluded AS 3959-2018 2.2.3.2 (e)
		<b>Photo Point 7</b> No-vegetated area, that is permanently cleared of vegetation (i.e. roads and residential development).	
Plot	2	Classification or Exclusion Clause	Excluded AS 3959-2018 2.2.3.2 (e)
		<b>Photo Point 8</b> No-vegetated area, that is permanently cleared of vegetation as it is a carpark and school.	
Plot	2	Classification or Exclusion Clause	Excluded AS 3959-2018 2.2.3.2 (f)
		<b>Photo Point 9</b> Vegetation within this plot is regarded as low threat due to factors such as flammability, moisture content and fuel load as it is managed garden.	

## 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 (c)	-	No separation distances required – BAL-LOW				
2	Excluded AS 3959-2018 2.2.3.2 (e) & (f)	-	No separation distances required – BAL-LOW				

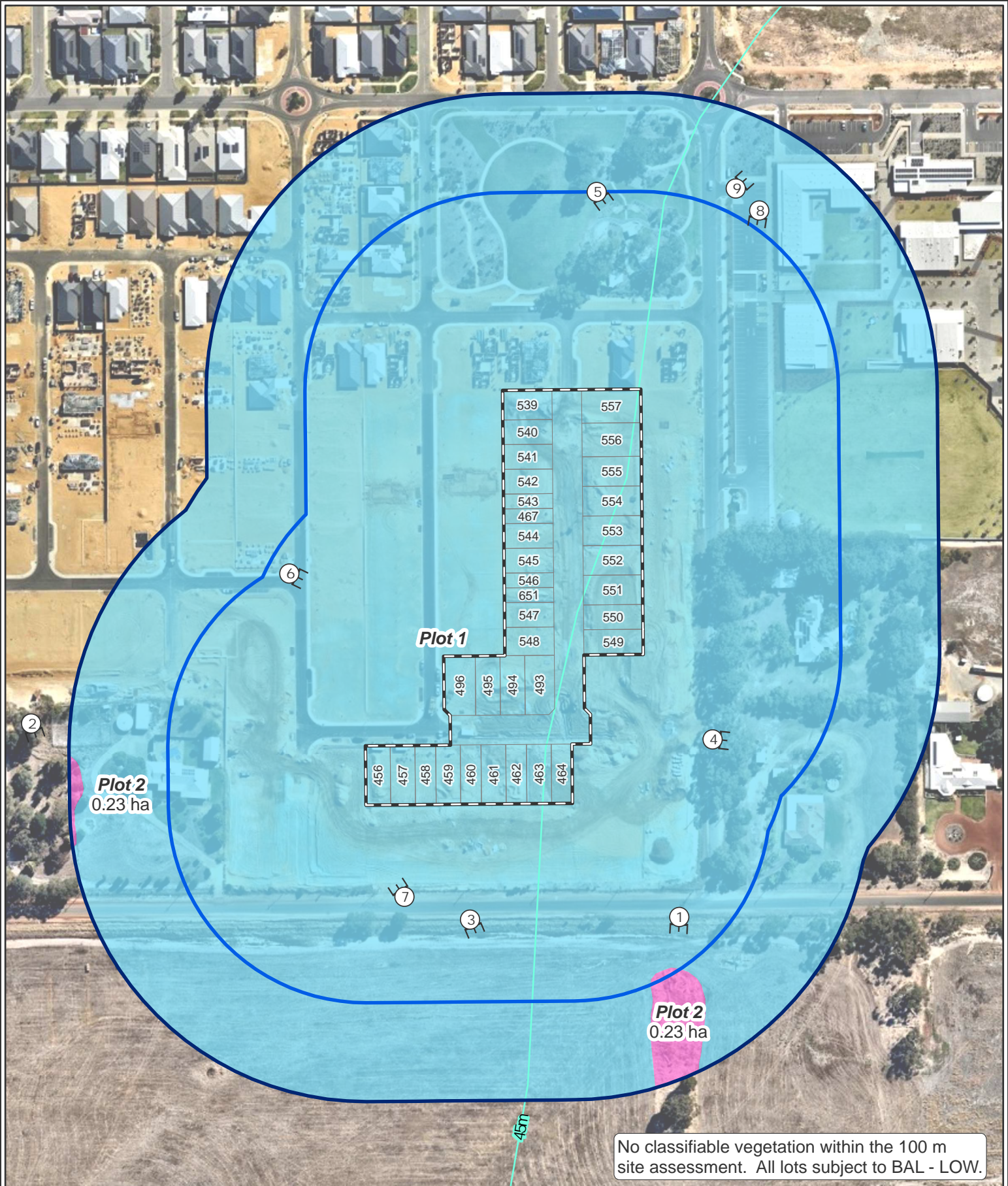
**DETERMINED BUSHFIRE ATTACK LEVEL (BAL)**

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 shown in Table 2 and Figure 1.

**Table 2: BAL Assessment summary**

BAL	Affected lots	Construction sections to be consulted in AS 3959-2018
BAL-LOW	All proposed lots	3 and 4





**Figure 1: Vegetation Classification**

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

Photo location  

**Vegetation classification**

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

0 20 40 80  
Metres

Datum/Projection:  
GDA 1994 MGA Zone 50

22PER2700-SM Date: 2/06/2022

A TETRA TECH COMPANY



## 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	$\leq 12.5 \text{ kW/m}^2$	Ember attack	3 and 5
BAL-19	$>12.5 \text{ kW/m}^2 \leq 19 \text{ kW/m}^2$	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing radiant heat flux.	3 and 6
BAL-29	$>19 \text{ kW/m}^2 \leq 29 \text{ kW/m}^2$	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing radiant heat flux	3 and 7
BAL-40	$>29 \text{ kW/m}^2 \leq 40 \text{ kW/m}^2$	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	$>40 \text{ kW/m}^2$	Direct exposure to flames from fire front in addition to radiant heat flux and ember attack	3 and 9

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