



**BUSHFIRE ATTACK LEVEL**

**FOR**

**FUTURE DWELLINGS**

**AT**

**STAGE 3 THE GARDENS,**

**MEDOWIE NSW 2318**

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#### Disclaimer

*Notwithstanding the precautions adopted within this report, it should always be remembered that bushfires burn under a wide range of conditions. An element of risk, no matter how small always remains, and although the standard is designed to improve the performance of such buildings, there can be no guarantee, because of the variable nature of bushfires, that any one building will withstand bushfire attack on every occasion.*



## Executive Summary

This report provides an assessment of the Bushfire Attack Level (BAL) at Stage 3 The Gardens, Medowie NSW 2318 in accordance with AS3959 (2018) *Construction of Buildings in Bushfire Prone Areas* Appendix A - Method 1. This report and mapping are not to be used to place wholesale restrictions on lots reflecting the resulting BAL mapping presented within. Future development of surrounding stages may result in lower BALs than detailed in this report.

This assessment is based on the implementation of an 8.5m setback in lots facing the forest to the North (lots 308-315).

This BAL report has shown that any future dwellings within the site will be able to meet the requirements of both AS3959-2018 and the PBP 2019 (NSW Rural Fire Service NSW).



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### **Disclaimer:**

*The BALs as depicted within this report and mapping have been determined by management of vegetation to the east where land will be cleared for future stages. It should be noted that conditions may change over time that may result in different BALs for the lots.*

*Although every care has been taken in the preparation of this BAL Report, Hunter Land Pty Ltd and the author accept no responsibility in errors in this report or damaged resulting from the information. It should be noted that upon lodgement of a Development Application (DA) with Council or Rural Fires Service they may recommend additional construction requirements (BALs).*



## Terms & Abbreviations

Abbreviation	Meaning
APZ	Asset Protection Zone
AS2419 -2005	Australian Standard – Fire Hydrant Installations
AS3959-2018	Australian Standard – Construction of Buildings in Bush Fire Prone Areas
BAL	Bushfire Attack Level
BCA	Building Code of Australia
BPA	Bush Fire Prone Area (Also Bushfire Prone Land)
BPL Map	Bush Fire Prone Land Map
BPMs	Bush Fire Protection Measures
<i>EPA Act</i>	<i>NSW Environmental Planning and Assessment Act 1979</i>
FFDI	Forest Fire Danger Index
FMP	Fuel Management Plan
ha	hectare
IPA	Inner Protection Area
LGA	Local Government Area
OPA	Outer Protection Area
PBP	Planning for Bushfire Protection 2019
PTS	Port Stephens Council
RF Act	Rural Fires Act 1997
RF Regulation	Rural Fires Regulation



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# I INTRODUCTION

Firebird ecoSultants Pty Ltd has been engaged by McCloy Group to undertake a Bushfire Attack Level (BAL) report for Stage 3 The Gardens, Medowie NSW 2318, hereafter referred to as the “site”. Refer to Appendix A for Sales Plan.

This BAL report assesses the application of Australian Standard AS3959-2018 ‘Construction of Buildings on Bushfire Prone Land’ and Appendix 1 of Planning for Bushfire Protection 2019 (PBP, 2019). AS3959 (2018) Appendix A – Method 1 has been used in this assessment.

This report has been prepared to provide guidance to prospective purchasers of what Bushfire Attack Levels (BALs) may be required for future dwellings within the site.

## I.1 Site Particulars

<b>Locality:</b>	Stage 3 The Gardens, Medowie NSW 2318
<b>LGA:</b>	Port Stephens Council
<b>Forest Danger Index:</b>	100
<b>Current Land Use:</b>	Approved subdivision



## 2 METHODOLOGY

The Australian Standard for assessing the BAL and providing the detailed requirements for construction has been reviewed and amended with the latest version being adopted for use in bushfire prone areas of NSW in March 2020. This version is titled AS 3959-2018 'Construction of Buildings in Bushfire Prone Areas' (standards Australia 2018, was used in this assessment.

In addition, the NSW method of determining the bushfire attack level, found in Appendix 1 of the document 'Planning for Bushfire Protection 2019' (NSW Rural Fire Service 2019) has also been reviewed and amended to come into line with the process within AS 3959. Therefore, in NSW the methodology with AS 3959 is to be used to determine the bushfire attack level. AS3959 (2018) Appendix A – Method 1 has been used in this BAL assessment.

### 2.1 Vegetation Assessment

Vegetation surveys and vegetation mapping carried out on the site has been undertaken as follows:

- Aerial Photograph Interpretation to map vegetation cover and extent.
- Confirmation of the vegetation assemblage typology present via a site inspection.

### 2.2 Slope Assessment

Slope assessment has been undertaken as follows:

- Aerial Photograph Interpretation in conjunction with analysis of electronic contour maps with a contour interval of 10m.



## 3 SITE ASSESSMENT

The following assessment has been undertaken in accordance with the requirements of PBP (RFS, 2019) and AS3959-2018.

### 3.1 Vegetation and Slope Assessment

An assessment of the slope affecting the bushfire behaviour was undertaken for a distance of 100m from the edge of the lot boundaries in the direction of the bushfire hazard. The slopes leading away from the site have been evaluated to identify both the average slope and by identifying the maximum slope present. These values help determine the level of gradient which will most significantly influence the fire behaviour of the site. Refer to Table 1 for Vegetation and Slope Assessment.

**Table 3-1: Vegetation & Slope Assessment**

Direction from Site	Vegetation Classification	Effective Slope
North	Forest vegetation	Upslope
East	Managed land – Future Development	N/A
South	Managed land – Residential subdivision	N/A
West	Managed land – Residential subdivision	N/A

To Note: The strip of Vegetation to the West of Stage 3 is considered as a nature strip and thus low-threat according to A1.10 of PBP 2019.



## 4 BUSHFIRE ATTACK ASSESSMENT

### 4.1 Bushfire Attack Assessment

To determine the bush fire attack and required Bushfire Attack Level (BAL) for the proposed subdivision the following steps were followed:

1. Determination of the vegetation types within 100m of the site, as assessed in section 3 of this report.
2. Determination of the distance between the vegetation and future dwellings has been assessed in section 4.2 of this report.
3. Determination of the effective slope as assessed in section 3 of this report.
4. A FFDI of 100 was determined for PTS LGA.

### 4.2 Determination of Bushfire Attack Levels

The results from the above steps were used to calculate the required BAL in accordance with Method 1 of AS 3959 – 2018.

The results from this bush fire attack assessment are detailed below in Table 4-1– Bushfire Attack Level (BAL) Assessment and Figure 4-1 Bushfire Attack Level Map.

This assessment is based on the implementation of a 25m Asset Protection Zone (APZ) between any future dwellings and forest vegetation to the south and east. This APZ will include a 5m setback within vegetation to the south, a 3.5m setback in lots facing the forest to the south (lots 901-906), and an 8.5m setback in lots facing the forest to the east (lots 906-909 and 920-921).

**Table 4-1: Bushfire Attack Level Assessment**

Lot Number	Vegetation Type within 100m & Direction from future dwellings	Effective Slope of Land (degrees)	Separation Distance from Identified Vegetation	Bushfire Attack Level (BAL)	Construction Section
301	Managed Land	N/A	>100 m	BAL-LOW	N/A
302	Managed Land	N/A	>100 m	BAL-LOW	N/A
303	Managed Land	N/A	>100 m	BAL-LOW	N/A
304	Managed Land	N/A	>100 m	BAL-LOW	N/A

Lot Number	Vegetation Type within 100m & Direction from future dwellings	Effective Slope of Land (degrees)	Separation Distance from Identified Vegetation	Bushfire Attack Level (BAL)	Construction Section
305	Forest Vegetation to the North	Upslope	45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
306	Forest Vegetation to the North	Upslope	45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
307	Forest Vegetation to the North	Upslope	45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
308	Forest vegetation to the North	Upslope	24 -< 33 m	BAL-29	Sect 3 & 7 of AS3959 and Sect 7.5 of PBP.
			33 -< 45 m	BAL-19	Sect 3 & 6 of AS3959 and Sect 7.5 of PBP.
			45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
309	Forest vegetation to the North	Upslope	24 -< 33 m	BAL-29	Sect 3 & 7 of AS3959 and Sect 7.5 of PBP.
			33 -< 45 m	BAL-19	Sect 3 & 6 of AS3959 and Sect 7.5 of PBP.
			45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
310	Forest vegetation to the North	Upslope	24 -< 33 m	BAL-29	Sect 3 & 7 of AS3959 and Sect 7.5 of PBP.
			33 -< 45 m	BAL-19	Sect 3 & 6 of AS3959 and Sect 7.5 of PBP.
			45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.

Lot Number	Vegetation Type within 100m & Direction from future dwellings	Effective Slope of Land (degrees)	Separation Distance from Identified Vegetation	Bushfire Attack Level (BAL)	Construction Section
311	Forest vegetation to the North	Upslope	24 -< 33 m	BAL-29	Sect 3 & 7 of AS3959 and Sect 7.5 of PBP.
			33 -< 45 m	BAL-19	Sect 3 & 6 of AS3959 and Sect 7.5 of PBP.
			45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
312	Forest vegetation to the North	Upslope	24 -< 33 m	BAL-29	Sect 3 & 7 of AS3959 and Sect 7.5 of PBP.
			33 -< 45 m	BAL-19	Sect 3 & 6 of AS3959 and Sect 7.5 of PBP.
			45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
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			45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
314	Forest vegetation to the North	Upslope	24 -< 33 m	BAL-29	Sect 3 & 7 of AS3959 and Sect 7.5 of PBP.
			33 -< 45 m	BAL-19	Sect 3 & 6 of AS3959 and Sect 7.5 of PBP.
			45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.

Lot Number	Vegetation Type within 100m & Direction from future dwellings	Effective Slope of Land (degrees)	Separation Distance from Identified Vegetation	Bushfire Attack Level (BAL)	Construction Section
315	Forest vegetation to the North	Upslope	24 -< 33 m	BAL-29	Sect 3 & 7 of AS3959 and Sect 7.5 of PBP.
			33 -< 45 m	BAL-19	Sect 3 & 6 of AS3959 and Sect 7.5 of PBP.
			45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
316	Forest vegetation to the North	Upslope	45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
317	Forest vegetation to the North	Upslope	45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
318	Forest vegetation to the North	Upslope	45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
			>100m	BAL-LOW	N/A
319	Forest vegetation to the North	Upslope	45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
			>100m	BAL-LOW	N/A
320	Forest vegetation to the North	Upslope	45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
			>100m	BAL-LOW	N/A
321	Forest vegetation to the North	Upslope	45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
			>100m	BAL-LOW	N/A
322	Forest vegetation to the North	Upslope	45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.

Lot Number	Vegetation Type within 100m & Direction from future dwellings	Effective Slope of Land (degrees)	Separation Distance from Identified Vegetation	Bushfire Attack Level (BAL)	Construction Section
323	Forest vegetation to the North	Upslope	45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
324	Forest vegetation to the North	Upslope	45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
			>100m	BAL-LOW	N/A
325	Managed Land	N/A	>100 m	BAL-LOW	N/A
326	Managed Land	N/A	>100 m	BAL-LOW	N/A
327	Managed Land	N/A	>100 m	BAL-LOW	N/A
328	Managed Land	N/A	>100 m	BAL-LOW	N/A
329	Managed Land	N/A	>100 m	BAL-LOW	N/A
330	Managed Land	N/A	>100 m	BAL-LOW	N/A
331	Managed Land	N/A	>100 m	BAL-LOW	N/A
332	Managed Land	N/A	>100 m	BAL-LOW	N/A
333	Managed Land	N/A	>100 m	BAL-LOW	N/A
334	Forest vegetation to the North	Upslope	45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
			>100 m	BAL-LOW	N/A
335	Forest vegetation to the North	Upslope	45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.
336	Forest vegetation to the North	Upslope	45 -< 100 m	BAL-12.5	Sect 3 & 5 of AS3959 and Sect 7.5 of PBP.



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\*To Note: The construction requirements for the next lower BAL than that determined for the site may be applied to an elevation of the building where the elevation is not exposed to the source of the bushfire attack. An elevation is deemed to be not exposed to the source of bushfire attack if all the straight lines between that elevation and the source of bushfire attack are obstructed by another part of the building. However, this does not apply to BAL-12.5.

This report and mapping are not to be used to place wholesale restrictions on lots reflecting the resulting BAL mapping presented within. Building location and design will influence the application of the required BALs. For example, a lot indicated as being affected by BAL-29 may have those facades that are not exposed to the bushfire threat constructed to a lower BAL (i.e. BAL-19), reducing the costs of construction and providing more flexibility in choice of external building materials. Refer to Appendix B for Summary of AS3959-2018 Construction Standards and Appendix C for Additional Building Requirements.



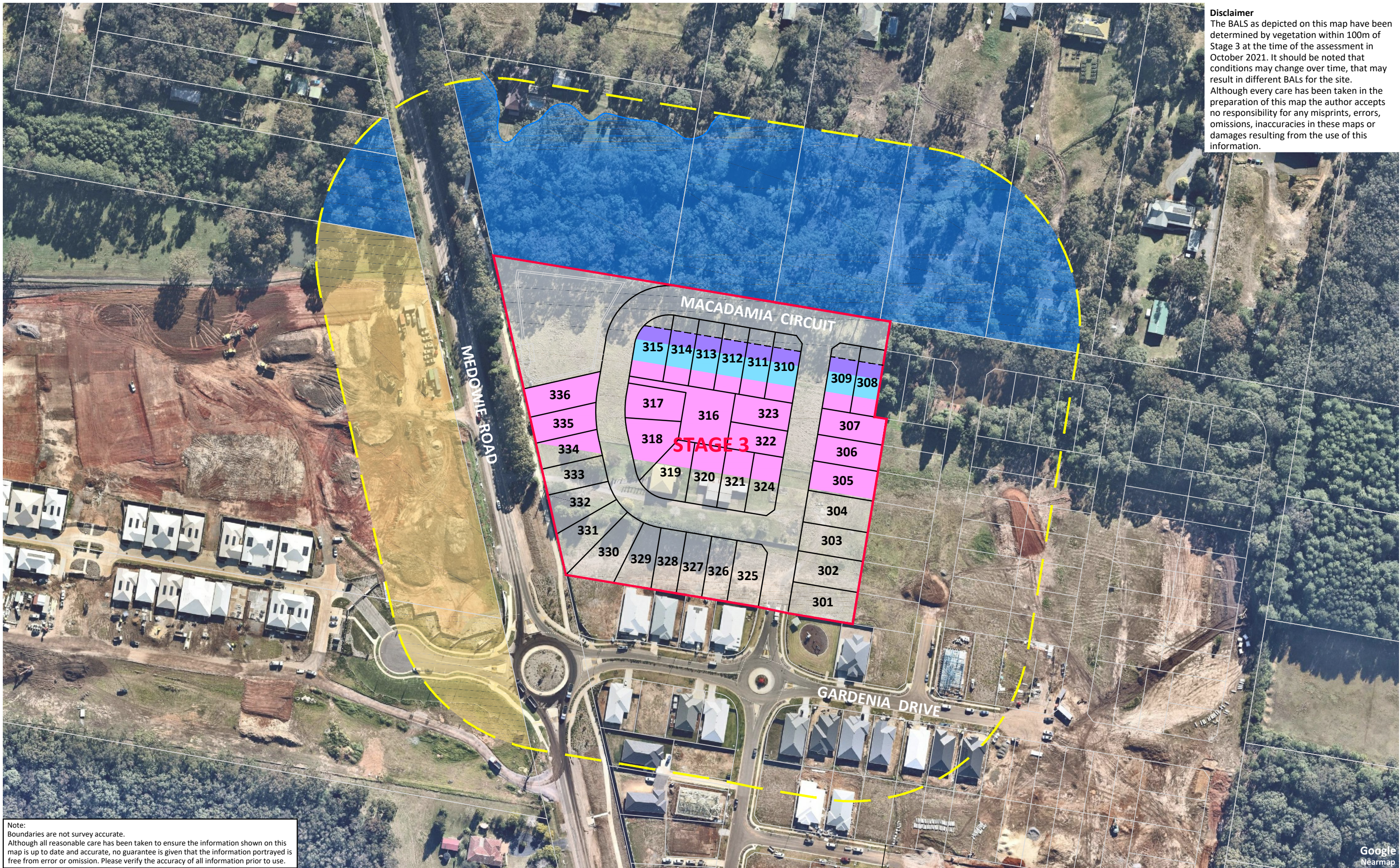


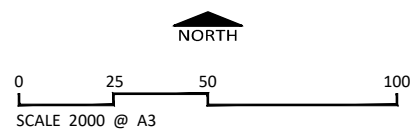
FIGURE 4-1: BUSHFIRE ATTACK LEVELS

CLIENT  
SITE DETAILS  
DATE

Client  
Stage 3 The Gardens Medowie  
26 October 2021

Legend

- Subject Site
- 100m Buffer
- 8.5m Setback
- Open Forest
- Managed Land
- BAL 12.5
- BAL 19
- BAL 29



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## 5 CONCLUSION

This report provides an assessment of the Bushfire Attack Level (BAL) in accordance with AS3959-2018 Construction of Buildings in Bushfire Prone Areas for Stage 3 The Gardens, Medowie NSW 2318. This BAL report assesses the application of Australian Standard AS3959-2018 'Construction of Buildings in Bushfire Prone Land' and Appendix 1 of Planning for Bushfire Protection 2019 (PBP, 2019).

This assessment is based on the implementation of an 8.5m setback in lots facing the forest to the North (lots 308 - 315).

This report and mapping are not to be used to place wholesale restrictions on lots reflecting the resulting BAL mapping presented within. Future development of surrounding stages may result in lower BALs than detailed in this report.

This BAL report has shown that any future dwellings within the site will be able to meet the requirements of both AS3959-2018 and the PBP 2019 (NSW Rural Fire Service NSW).



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***Disclaimer:***

The BALs as depicted within this report and mapping have been determined by vegetation within 100m of Stage 3 at the time of the assessment October 2021. It should be noted that conditions may change over time that may result in different BALs for the lots.





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## 6 BIBLIOGRAPHY

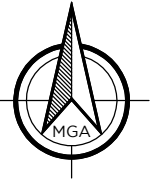
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## APPENDIX A SALE PLAN

# SALE PLAN FOR THE GARDENS STAGE 3



## LOCALITY PLAN

— s — s — s — s — PROPOSED SEWER LINE

- (EA) - EASEMENT TO DRAIN WATER 1.5 WIDE
- (EB) - EASEMENT TO DRAIN WATER 2 WIDE
- (ED) - RESTRICTION ON THE USE OF LAND (8.5 WIDE)
- (EE) - EASEMENT FOR FENCING & LANDSCAPING 1.5 WIDE
- (EF) - EASEMENT FOR ELECTRICITY & OTHER PURPOSES 4 WIDE
- (EG) - RESTRICTIONS ON THE USE OF LAND

(GENERAL RESTRICTIONS ON THE USE OF LAND EFFECTS ALL LOTS. ALL AREAS, DIMENSIONS & EASEMENTS ARE SUBJECT TO FINAL SURVEY)



**THE GARDENS**  
MEDOWIE



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## **APPENDIX B      SUMMARY OF AS3959-2018 CONSTRUCTION REQUIREMENTS**



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## APPENDIX C      SECT 7.5 PBP 2019 – ADDITIONAL BUILDING REQUIREMENTS

### 7.5 Additional construction requirements

To ensure the performance criteria for construction standards given in section 7.4 can be met, PBP adopts additional measures over and above AS 3959 and NASH Standard as follows:

- construction measures for ember protection at BAL-12.5 and BAL-19 provided by AS 3959;
- construction measures for development in BAL-FZ; and
- requirements over and above the performance criteria contained within AS 1530.8.1 and AS 1530.8.2 apply in regards to flaming.

#### 7.5.1 Ember protection

Based on the findings from the 2009 Victorian Bush Fires Royal Commission, PBP aims to maintain the safety levels previously provided by AS 3959:1999 in relation to ember protection at lower Bush Fire Attack Levels.

In particular, the areas addressed are in relation to:

- sarking;
- subfloor screening;
- floors;
- verandas, decks, steps, ramps and landings;
- timber support posts and beams; and
- fascias and bargeboards.

#### 7.5.2 NSW State Variations under G5.2(a) (i) and 3.10.5.0(c)(i) of the NCC

Certain provisions of AS 3959 are varied in NSW based on the findings of the Victorian Bush Fires Royal Commission and bush fire industry research.

The following variations to AS 3959 apply in NSW for the purposes of NSW G5.2(a)(i) of Volume One and NSW 3.10.5.0(c)(i) of Volume Two of the NCC;

- clause 3.10 of AS 3959 is deleted and any sarking used for BAL-12.5, BAL-19, BAL-29 or BAL-40 shall:
  - be non-combustible; or
  - comply with AS/NZS 4200.1, be installed on the outside of the frame and have a flammability index of not more than 5 as determined by AS 1530.2; and
- clause 5.2 and 6.2 of AS 3959 is replaced by clause 7.2 of AS 3959, except that any wall enclosing the subfloor space need only comply with the wall requirements for the respective BAL; and
- clause 5.7 and 6.7 of AS 3959 is replaced by clause 7.7 of AS 3959, except that any wall enclosing the subfloor space need only comply with the wall requirements for the respective BAL; and
- fascias and bargeboards, in BAL-40, shall comply with:
  - clause 8.4.1(b) of AS 3959; or
  - clause 8.6.6 of AS 3959.



### 7.5.3 Construction in the flame zone

The flame zone is the area that has significant potential for sustained flame contact during a bush fire. The flame zone is determined by the calculated distance at which the radiant heat of the design fire exceeds 40kW/m<sup>2</sup>.

The NCC references AS 3959 and the NASH Standard. The NSW variation to the NCC excludes both AS 3959 and the NASH Standard as a Deemed to Satisfy solution for buildings that are required to be constructed to BAL-FZ as defined in AS 3959.

Although Chapter 9 of AS 3959 and the NASH Standard has not been adopted, they should still be used as a basis for a performance based solution demonstrating compliance with the performance

requirements of the NCC and PBP for construction in the flame zone.

All flame zone developments should be sited and designed to minimise the risk of bush fire attack. Buildings should be designed and sited in accordance with appropriate siting and design principles to ensure the safest protection from bush fire impacts.

### 7.5.4 Flaming

Materials that allow flaming can be problematic and are not supported by the NSW RFS for the following reasons:

- flaming materials increase the exposure of other elements of construction and the adjoining structure to flame contact after a bush fire front has passed; and
- flaming materials will potentially increase the exposure of occupants of the building to radiant heat, direct flame contact, smoke after a bush fire front has passed.

This increase in exposure can contribute to the risk of loss of life and compromise the ability of residents to defend their property and egress from the building once the bush fire front has passed.

In addition, it can reduce the ability of occupants to make safe and effective decisions about their safety.

Where there is potential for materials of construction to ignite as a result of bush fire attack, the proposed building solution generally fails the construction performance criteria for residential infill development.

For development which may be subject to flame contact (BAL-40 and BAL-FZ), systems tested in accordance with AS 1530.8.1 and AS 1530.8.2 respectively will be considered, except that there is to be no flaming of the specimen except for:

- window frames that have passed the criteria of AS 1530.8.1 and AS 1530.8.2, may be approved provided their flaming is not considered to compromise the safety of other elements of the building; and
- use of other minor elements which allow flaming may be considered provided they do not compromise the integrity of the fire safety of the building (examples include address numbers, house names, decorative artwork, etc).

Flaming of other more significant elements of the building (such as aesthetic wall cladding) is considered to pose an unacceptable risk and will not be supported.