Central Coast, Newcastle, Hunter & Sydney



## **Bushfire Hazard Assessment**

Lot 514 Suttor Avenue Caerleon 2850 (Lot 514/-/DPUnregistered).



#### **Project Details**

Assessed as:	Residential Subdivision			
Assessed by	Matthew Noone	(BPAD Accreditat	tion No. BPAD-PD 25584)	
Highest BAL on any facade	BAL-LOW			
Planning for Bushfire Protection (2019) Compliance	of Planning for Bush	ifire Protection (201	vant specification and requirements 9). This report has addressed the Fire Regulation (2013).	
Project Description	Residential Subdivision and Construction of a Dual Occupancy Dwelling.			
Report Number	BR-467122-A			
Date of Issue	23/02/2022 Report Validity: 1 year from date of issue			



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**Bushfire Planning & Design** Central Coast, Hunter & Sydney 0406077222

23/02/2022



## **BUSHFIRE RISK ASSESSMENT CERTIFICATION**

Development Address	Lot 514 Suttor Avenue Caerleon 2850.
Parcel number	(Lot 514/-/DPUnregistered).
Development description	Residential Subdivision and Construction of a Dual
	Occupancy Dwelling.
Architectural Drawings Reviewed.	Attached to report BR-467122.
Assessed Bushfire Attack Level	BAL-LOW
Does the assessment rely on alternate solutions?	No.
Assessed by Matthew Noone	FPAA No. BPAD-PD 25584
BPAD Accreditation Scheme No.	
Certificate Number:	BR-467122-A

I hereby certify, in accordance with s.4.14 of the Environmental Planning and Assessment Act 1979 that;

1	I am a person recognised by the NSW Rural Fire Service as a qualified consultant in bushfire
	risk assessment; and
2	Subject to the recommendations contained in the attached Bushfire Risk Assessment Report the pro-
	posed development conforms to the relevant specifications and requirements*

\* The relevant specifications and requirements being; specifications and requirements of the document entitled Planning for Bush Fire Protection prepared by the NSW Rural Fire Service in co-operation with the Department of Planning and any other document as prescribed by s.4.14 of the Environmental Planning and Assessment Act 1979.

I am aware that the Bushfire Assessment Report, prepared for the above mentioned site is to be submitted in support of a development application for this site and will be relied upon by Council as the basis for ensuring that the bushfire risk management aspects of the proposed development have been addressed in accordance with Planning for Bushfire Protection (2019).

The following have been provided and or included in our assessment.

Bushfire Risk Assessment Report.
 Recommendations.
 Statement of vegetation impact in relation to APZ.

DATE	ISSUED TO	REV.	Comments
23/02/2022	Lynch Building Group	A	Issued to support Development Application

## **DISCLAIMER and TERMS OF USE**

Bushfire Planning & Design cannot be held liable for the loss of life or property caused by a bushfire event. This report has considered the relevant planning instruments, bushfire constructions codes and practices applicable at the time of writing. Should additional information be provided after this report has been issued, we reserve the right to review and if necessary modify our report. Bushfire Planning and Design has no control over workmanship, buildings degrade over time and vegetation if not managed will regrow. In addition legislation and construction standards are subject to change. Due to significant variance of bushfire behaviour, we do not guarantee that the dwelling will withstand the passage of bushfire even if this development is constructed to the prescribed standards.

AS3959 (2018) states "It should be borne in mind that the measures contained in this Standard cannot guarantee that a building will survive a bushfire event on every occasion. This is substantially due to the degree of vegetation management, the unpredictable nature of behaviour of fire, and extreme weather conditions."

The information and material contained herein is general in nature and is intended for your use and information. This report relates only to the specific development described within and cannot be used to support any other future development. Bushfire Planning and Design disclaims, to the extent permitted by law, all warranties, representations or endorsements, express or implied, with regard to the material contained herein. Bushfire Planning and Design does not warrant or represent that the material contained herein is free from errors or omissions, or that it is exhaustive.

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This report has been prepared by Matthew Noone trading as Bushfire Planning and Design. Matthew Noone holds a BPAD Level 2 accreditation with the Fire Protection Association of Australia. Under the BPAD accreditation scheme a BPAD Level 2 consultant can provide advice and undertake all types assessments with the exception of alternate solutions. In the event that alternate solution is proposed it will be undertaken outside of our accreditation. Alternate solutions are considered a deviation from the prescribed standards and as per s.4.14 of the Environmental Planning and Assessment Act (1979) are required to be required to be referred to the New South Wales Rural Fire Service (RFS) for review.

This report has been based on our interpretation of Planning for Bushfire Protection (2019), AS3959 (2018) and the methodology for site specific bushfire assessment. As a consultant, our view can be subjective. Our opinions may differ from the opinions provided by you the Client (or Client Representative), the Council, the RFS or another bushfire consultant. The Rural Fire Service (RFS) has a higher authority and can upon their review, increase a nominated BAL-rating or entirely reject a development proposal. Any such recommendations made by the RFS take precedence. Our role is intermediary between our Client (or Client Representative) and the consenting authority. We apply our knowledge of the relevant bushfire protection standards to provide the best possible outcome for our Client (or Client Representative), both from a bushfire safety and financial perspective. Should the RFS modify our recommendations or reject the proposal to which this report relates to we will not be held liable for any financial losses as a result. By using this document, you the Client (or Client Representative) agree to and acknowledge the above statements.

Bushfire Planning and Design accepts no liability or responsibility for any use or reliance upon this report and its supporting material by any unauthorized third party. The validity of this report is nullified if used for any other purpose than for which it was commissioned. Unauthorized use of this report in any form is deemed an infringement of our intellectual property. By using this document to support your development you the Client (or Client representative) agree to these terms.

Lot 514 Suttor Avenue Caerleon 2850

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### **SECTION 01 - BACKGROUND AND BRIEFING NOTES**

The subject site whether in whole or part is recorded as bushfire affected on a relevant map certified under Section 10.3 (2) of the Environmental Planning and Assessment Act 1979. The development relates to the subdivision of bushfire prone land and therefore must address the legislative requirements stipulated in Clause 4.46 of the EP&A Act 1979 and 100B of the Rural Fire Act 1997. The project is considered to be an integrated development and is required to be referred to the RFS for their approval and issuance of a Bushfire Safety Authority (BFSA).

## **1.1 BUSHFIRE PRONE LAND**

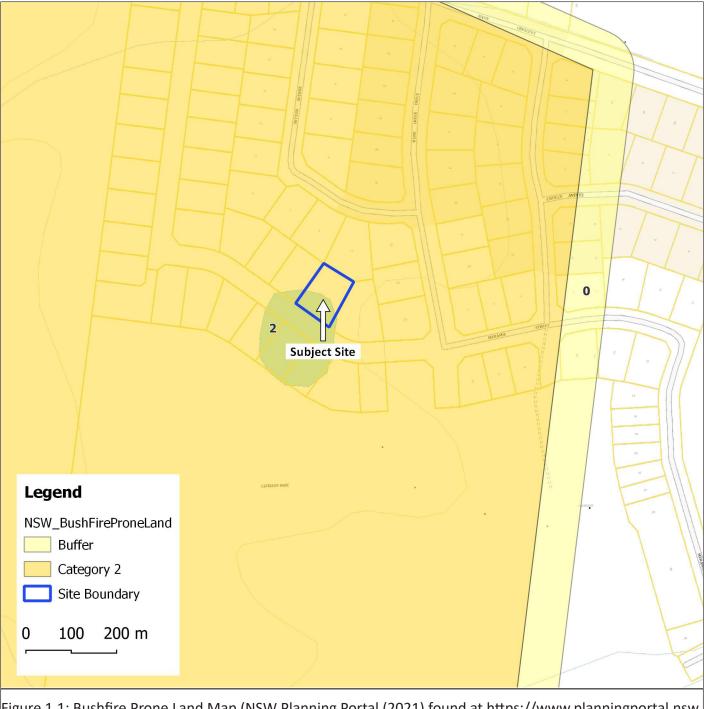


Figure 1.1: Bushfire Prone Land Map (NSW Planning Portal (2021) found at https://www.planningportal.nsw. gov.au) accessed 23/02/2022.

## **1.2 DEVELOPMENT PROPOSAL**

The development relates to the subdivision of Lot 514 into two allotments. A detached dual occupancy dwelling will be constructed.



Figure 1.2: Architectural Concept Image

## **1.3 REGULATORY FRAMEWORK**

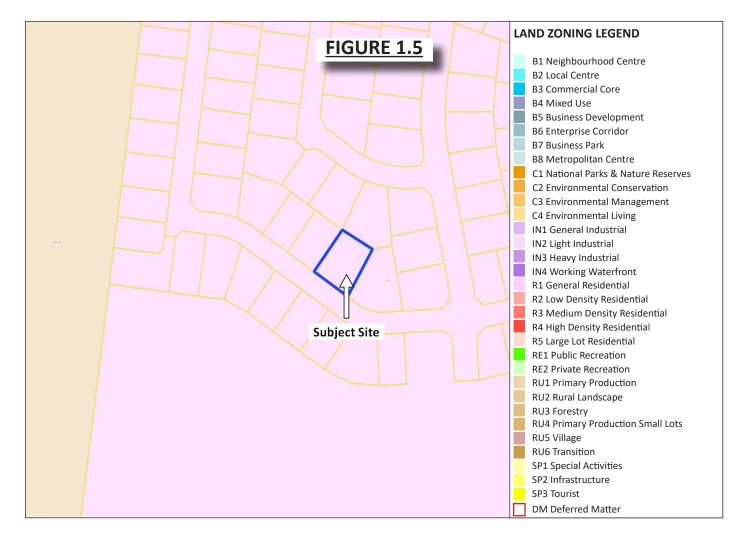
The main legislation, planning instruments, development controls and guidelines that are related to this project are as follows; 100B of the Rural Fires Act 1997, Clause 46 of the Rural Fires Regulation 2013, Clause 44 of the Rural Fire Regulation 2013, The New South Wales RFS document Planning for Bushfire Protection (PBP 2019) and the National Construction Code (NCC 2019).

## **1.4 SITE LOCATION AND DESCRIPTION**

The subject site is located in Caerleon which is within the Mid Western Regional Local Government Area (LGA). The site is located in a recent subdivision and will be surrounded by managed residential curtilage in the near future. There is no Grassland within 50m and no other bushfire prone vegetation within 100m of the subject site.



## **1.5 LAND USE, ZONING AND PERMISSIBILITY**



The subject site and surrounding allotments are zoned R1 General Residential.

## **1.6 SIGNIFICANT ENVIRONMENTAL FEATURES**

There are no significant environmental features within the subject site.

## 1.7 DETAILS OF ANY THREATENED SPECIES, POPULATIONS, ECOLOGICAL COMMUNITIES OR CRITICAL HABITATS

To our knowledge there are no threatened species, populations, ecological communities or critical habitat within the subject site.

## **1.8 DETAILS OF ABORIGINAL HERITAGE**

To our knowledge the site is not associated with any items of Aboriginal heritage.

## **2.0 INTRODUCTION**

For the purpose of this bushfire assessment, the vegetation is required to be described to a distance of 140m from the boundary and the slope to 100m from boundary. Vegetation type and slope under vegetation are the factors that will significantly affect bushfire behaviour.

'Research has shown that 85% of buildings are lost in the first 100m from bushland and that ember attack is a significant form of attack on properties' (RFS 2006).

## **2.1 SLOPE DETERMINATION**

The effective slope has been assessed for a distance of at least 100m from the proposed development. The slope data has been calculated from a 1m LiDAR Digital Elevation Model (DEM). The source data sets have been captured to standards that are generally consistent with the Australian ICSM LiDAR Acquisition Specifications with require a fundamental vertical accuracy of at least 0.30m (95% confidence) and horizontal accuracy of at least 0.80m (95% confidence). The slope arrows indicated in figure A represent the slope calculated across the length of the arrow direct from the digital elevation model. The calculated slope as shown in Figure A has not been manipulated or modified in any way.

## **2.2 PREDOMINANT VEGETATION CLASS**

This assessment includes vegetation both within and external to the site boundaries. Where mixes of vegetation formations are located together, the vegetation formation providing the greater hazard shall be used for the purpose of assessment. The combination of vegetation and slope that yields the worst case scenario shall be used (A1.2 PBP 2019).

Space left intentionally blank.

## **2.2.1 VEGETATION PHOTOS**



Photo 1: Grassland transition to Woodland to the west.



Photo 2: Managed land to the north.

## 2.3 BUSHFIRE ATTACK LEVEL (BAL) ASSESSMENT.

To clarify the findings below, there is no grassland within 50m and no other bushfire prone vegetation within 100m of the proposed development.

Based on the parameters identified in table 1 below and as depicted in Figure A, the proposed development is assessed as BAL-LOW as specified in AS3959 (2018).

TABLE 1	1 (To be read in conjunction with Figure A).					
LGA = Mid Western Regional Council Forest Fire Danger Index = FDI 80			FDI 80			
ASPECT <sup>1</sup>	Vegetation	Max Effective	Site slope <sup>3</sup>	Required	Proposed	BAL-Rating
	Class <sup>2</sup> Slope <sup>3</sup> APZ <sup>4</sup> APZ / EML <sup>5</sup>					
N, S, E, W	No bushfire threat within 100m / No un-managed grass within 50m BAL-LOW					
AOD	Managed residential land					
Abbreviations						

AOD AII other directions Eine Extent of managed land invertiant we estation contract	AOD All other directions	EML Extent of managed land	NVC Narrow vegetation corridor
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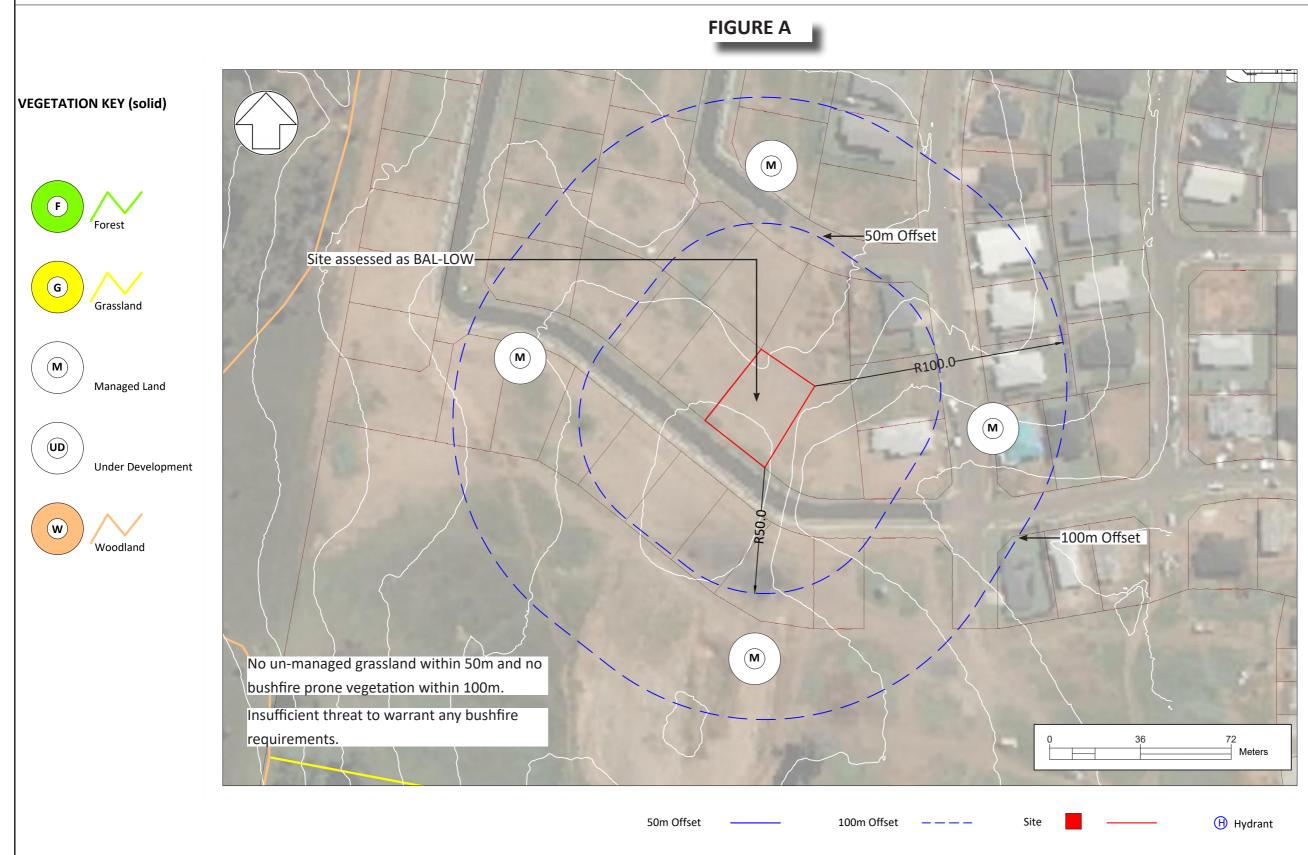
1	Cardinal direction from each proposed building facade based on grid north.
2	Vegetation Classifications are as described in PBP (2019) A1.2.
3	Site slope is calculated from 1m LiDAR contours.
4	Minimum APZ required stated as Acceptable Solutions within Table 1.12.2 and A1.12.5. PBP (2019).
5	Actual dimensional setback from the face of the building to the assessed vegetation. Achieved Asset
	Protection Zone (APZ) or extent of managed land (EML).
6	Where the direct line of sight between the proposed building and assessed vegetation is obstructed (by
	a wall or building) the assessed rating can be lowered by one BAL-rating (PBP 2019, s. A1.8).
7	Remnant bushland and narrow vegetation corridors (NVC) as stated in PBP (2019) s.A1.11 can be
	assessed as rainforest as a simplified approach or be assessed as Short Fire Run using method 2
	(AS3959).
8	Deeming provisions for grassland s.7.9 PBP (2019).
9	BAL-rating determined via method 2 (AS3959)

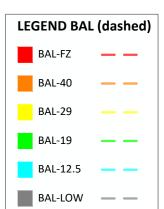
## 2.4 RECOMMENDED ASSET PROTECTION ZONES (APZs).

As there is no un-managed grassland within 50m and no other bushfire prone vegetation within 100m of the development there is insufficient threat to warrant any specific asset protection zones (APZ) or level of construction with regards to the construction of a building in a bushfire prone area. We recommend that the subject site be managed as an inner asset protection zone for perpetuity.

Refer to Section 3 for recommendations relating to APZ provision.

## **BUSHFIRE PLANNING AND DESIGN**





lot 514 suttor avenue

A

## **SECTION 03 - ASSET PROTECTION ZONES (APZs)**

Intent of measures: to minimise the risk of bush fire attack and provide protection for emergency services personnel, residents and others assisting fire fighting activities.

## **3.0 APZ PERFORMANCE CRITERIA (PBP 2019)**

- APZs are to be provided commensurate with the construction of the building.
- A defendable space is to be provided.
- APZs are to be managed and maintained to prevent the spread of a fire to the building.
- The APZ is to be provided in perpetuity.

• APZ maintenance is to be practical, soil stability is not compromised and the potential for crown fires is minimised.

The asset protection zones (APZ) requirements have been derived from the methodology of A1.12.2 or A1.12.3 in Appendix 1 of PBP (2019). Asset protection zones and in particular the Inner Asset Protection Zones are critical for providing defendable space and reducing flame length and rate of spread (PBP 2019). APZs are designed to provide sufficient open space for emergency workers to operate and for occupants to egress the site safely. They are divided into Inner and Outer Asset Protection Zones (IPAs and OPAs) and are required to be maintained for the life of the development. The IPA provides for defendable space and a reduction of radiant heat levels at the building line and the OPA provides for the reduction of the rate of spread and filtering of embers.

#### **GENERAL RECOMMENDATIONS**

•	The APZ should be located completely within the boundary of the site. The required APZ will often be satisfied by surrounding managed land.
•	Landscaping is designed and managed to minimise flame contact and radiant heat to buildings, and the potential for wind-driven embers to cause ignitions (refer to Section 3.1 and 3.2).
•	The APZ should not be located on slopes greater than 18 <sup>0</sup> unless terracing is introduced.
•	Landscaping is designed and managed to minimise flame contact and radiant heat to buildings, and the potential for wind-driven embers to cause ignitions
•	A clear area of low-cut lawn or pavement is maintained adjacent to the asset requiring protection.

## 3.1 - INNER APZ (IPA) GUIDELINES

The Inner APZ (IPA) is the managed area closest to the asset (eg. dwelling). The IPA is managed to minimal fuel conditions and aims to mitigate the impact of direct flame contact and radiant heat on the development. The IPA also aims to provide defendable space.

#### TREES

- Canopy cover should be less than 15% (at maturity) within the Inner APZ.
- Trees (at maturity) should not touch or overhang the building.
- Lower limbs should be removed up to a height of 2m above ground.
- Canopies should be separated by 2 to 5m.
- Preference should be given to smooth barked and evergreen trees.

#### SHRUBS

- Create large discontinuities or gaps in the vegetation to slow down or break the progress of fire towards buildings.
- Shrubs should not be located under trees shrubs should not form more than 10% ground cover.
- Clumps of shrubs should be separated from exposed windows and doors by a distance of at least twice the height of the vegetation.

#### GRASS

- Should be kept mown (as a guide grass should be kept to no more than 100mm in height).
- Leaves and vegetation debris should be removed.

## 3.2 - OUTER APZ (OPA) GUIDELINES

The Outer APZ (OPA) is the part of the APZ that is located between the IPA and the bushfire vegetation threat. The reduction in the available fuels and canopy connections in the OPA aims to mitigate the intensity of an approaching fire and restricts the pathways to crown fuels thus reducing the level of direct flame, radiant heat and ember attack on the IPA and asset (dwelling).

#### TREES

- Canopy cover should be less than 30% (at maturity) within the Outer APZ.
- Trees should have canopy separation canopies should be separated by 2 to 5m.

#### SHRUBS

- Shrubs should not form a continuous canopy.
- Shrubs should form no more than 20% of ground cover.

### **SECTION 04 - CONSTRUCTION**

#### PERFORMANCE CRITERIA (PBP 2019)

It must be demonstrated that the proposed building can withstand bush fire attack in the form of wind, smoke, embers, radiant heat and flame contact. The BAL construction requirements has been determined in accordance with the appropriate table from A1.12.2 to A1.12.7 (PBP 2019) and in accordance with the NCC and as modified by section 7.5.

The proposed development is assessed as BAL-LOW as indicated in Figure A and as specified in AS3959 (2018). As there is no bushfire threat within 100m of the proposed development there is insufficient threat to warrant any specific level of construction with regards to the construction of building in a bushfire prone area.

•	There are no bush fire protection requirements for Class 10 structures located more than 6m from a
	dwelling in bush fire prone areas. Where a Class 10 structure is located within 6m of a dwelling it must
	be constructed in accordance with the NCC.

• For a dwelling or structure that is assessed as BAL-LOW there are no requirements for fencing.

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## **SECTION 05 - ACCESS**

Intent of measures: To provide safe operational access for emergency services personnel in suppressing a bush fire, while residents are accessing or egressing an area.

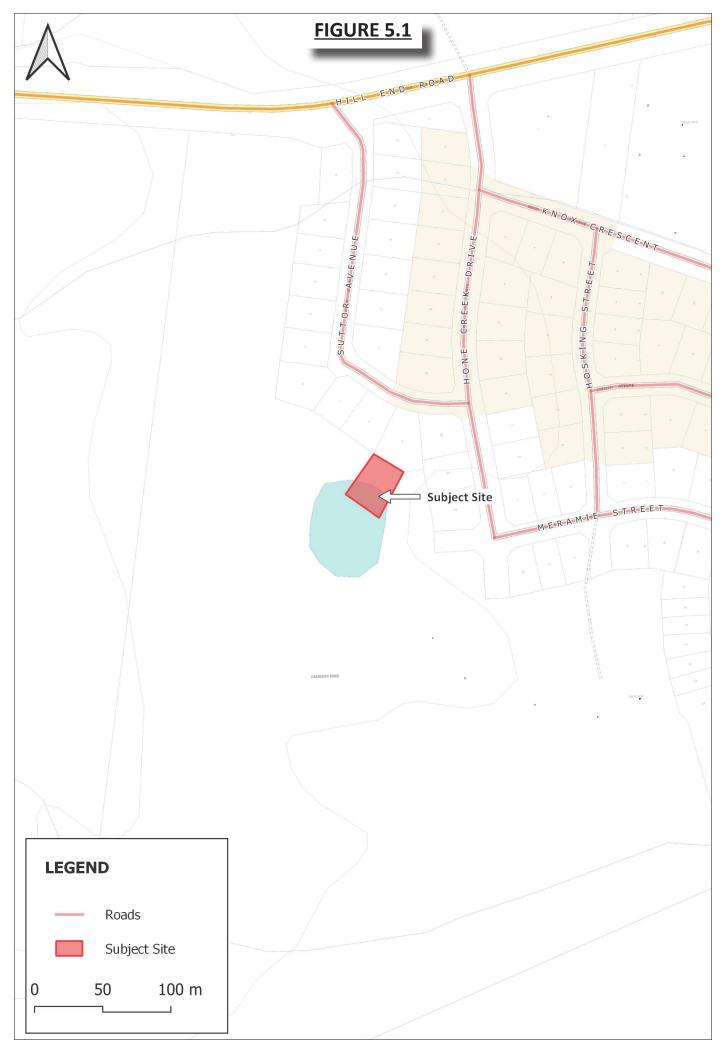
PE	PERFORMANCE CRITERIA (PBP 2019)		
•	Fire-fighting vehicles are provided with safe, all-weather access to structures and hazard vegetation.		
•	The capacity of access roads is adequate for fire-fighting vehicles.		
•	There is appropriate access to water supply.		
•	Fire-fighting vehicles can access the dwelling and exit the property safely.		

#### PUBLIC ROADS

Suttor Avenue is a sealed public road. The public road system is deemed to be adequate for emergency services appliances. Figure 5.1 shows the road systems in the area.

#### **PROPERTY ACCESS**

The nearest bushfire prone vegetation is located more than 100m from the proposed development. There is insufficient threat to warrant provision for RFS access.



### **SECTION 06 - WATER**

Intent of measures: To provide adequate services of water for the protection of buildings during and after the passage of a bush fire, and to locate gas and electricity so as not to contribute to the risk of fire to a building.

PE	PERFORMANCE CRITERIA (PBP 2019)			
•	An adequate water supply is to provided for fire-fighting purposes.			
•	Water supplies are to be located at regular intervals.			
•	The water supply is to be accessible and reliable for fire-fighting operations.			
•	Flows and pressure are to be appropriate			
•	The integrity of the water supply is to be maintained.			
•	A static water supply is to be provided for fire-fighting purposes in areas where reticulated water is not			
	available.			

The nearest bushfire prone vegetation is located more than 100m from the proposed development. There is insufficient threat to warrant the provision of additional water for fire fighting.

COMMENTS IN RELATION TO THE PROVISION OF ELECTRICITY AND GAS.

## **SECTION 07 - ELECTRICITY & GAS**

#### **PERFORMANCE CRITERIA (PBP 2019)**

- Location of electricity services is to limit the possibility of ignition of surrounding bush land or the fabric of buildings.
- Location and design of gas services is not to not lead to the ignition of surrounding bushland or the fabric of buildings.

#### **ELECTRICITY AND GAS - SPECIFIC REQUIREMENTS**

The proposed development can comply with the PBP (2019) with regards to electricity and gas requirements. The following points are to be adhered to (where applicable) for the provision of electricity and gas services where applicable.

#### COMMENTS IN RELATION TO THE PROVISION OF ELECTRICITY AND GAS.

**ACCEPTABLE SOLUTION** 

ACCEPTABLE SOLUTION

The nearest bushfire prone vegetation is located more than 100m from the proposed development. There is insufficient threat to warrant any specific bushfire requirements for the provision of electrical and gas supply.

## SECTION 08 - DEVELOPMENT RECOMMENDATIONS

The following points are recommended for inclusion in the DA conditions of consent;         1.       Construction       None.         2.       APZs       Manage the site as an Inner APZ (Section 3).         3.       Access       None.         4.       Services       None.         5.       In the event that Council or the NSW Rural Fire Service modifies our recommendations then this report should no longer be referred to. The bushfire requirements as stated in the DA Consent conditions will take precedence.         6.       We strongly recommend that the applicant cross references the bushfire requirements within the DA consent conditions and our report and alert us to any discrepancies.					
<ul> <li>2. APZs Manage the site as an Inner APZ (Section 3).</li> <li>3. Access None.</li> <li>4. Services None.</li> <li>5. In the event that Council or the NSW Rural Fire Service modifies our recommendations then this report should no longer be referred to. The bushfire requirements as stated in the DA Consent conditions will take precedence.</li> <li>6. We strongly recommend that the applicant cross references the bushfire requirements within the DA</li> </ul>	The	The following points are recommended for inclusion in the DA conditions of consent;			
<ul> <li>3. Access None.</li> <li>4. Services None.</li> <li>5. In the event that Council or the NSW Rural Fire Service modifies our recommendations then this report should no longer be referred to. The bushfire requirements as stated in the DA Consent conditions will take precedence.</li> <li>6. We strongly recommend that the applicant cross references the bushfire requirements within the DA</li> </ul>	1.	Construction	None.		
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		conditions will take precedence.			
consent conditions and our report and alert us to any discrepancies.	6.	We strongly re	commend that the applicant cross references the bushfire requirements within the DA		
		consent conditions and our report and alert us to any discrepancies.			

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### **SECTION 09 - CONCLUSION**

The development relates to the subdivision of Lot 514 into two allotments. A detached dual occupancy dwelling will be constructed.

For the purpose of bushfire assessment and pursuant of clause 4.46 of the EP&A Act 1979 and 100B of the Rural Fire Act 1997, this project is considered to be an integrated development and is required to be referred to the RFS for their approval and issuance of a Bushfire Safety Authority (BFSA).

The subject site is located in Caerleon which is within the Mid Western Regional Local Government Area (LGA). The site is located in a recent subdivision and will be surrounded by managed residential curtilage in the near future. There is no Grassland within 50m and no other bushfire prone vegetation within 100m of the subject site.

As there is no un-managed grassland within 50m and no other bushfire prone vegetation within 100m of the development there is insufficient threat to warrant any specific asset protection zones (APZ) or level of construction with regards to the construction of a building in a bushfire prone area. We recommend that the subject site be managed as an inner asset protection zone for perpetuity.

The proposed residential subdivision and construction of a dual occupancy dwelling is assessed as BAL-LOW as indicated in Figure A and as specified in AS3959 (2018) the Australian Standard for the Construction of Buildings in a Bushfire Prone Area. There is insufficient threat to warrant any specific level of construction with regard to the construction of a building in a bushfire prone area.

The project complies with the performance requirements of the BCA. The objectives and performance requirements of PBP (2019) are also achieved.

Site access, including access via the public road system is suitable for emergency response vehicles. The development complies with PBP (2019) with regards to the provision of water. The requirements for electricity and gas can also be complied with.

Should Council or the NSW Rural Fire Service have any objection to any part of this report, please get in contact to discuss.





## **SECTION 10 - REFERENCES**

AS3959 (2018)	Australian Standard, Construction of buildings in bushfire-prone areas, AS 3959, Third edition 2018 Standards Australia International Ltd, Sydney.
BCA (2019)	Building Code of Australia 2019, Building Code of Australia, Australian Building Codes Board, Canberra 2019.
EPA Act (1979)	Environmental Planning and Assessment Act 1979, NSW Government, NSW, legislation found at www.legislation.nsw.gov.au
PBP (2019)	Planning for Bushfire Protection, a Guide for Councils, Planners, Fire Authorities, Developers and Home Owners. Rural Fire Service 2019, Australian Government Publishing Service, Canberra.
RFS (2015)	Rural Fire Service, Guide For Bush Fire Prone Land Mapping, Version 5b.

## **SECTION 11 - APPENDICES**

Appendix A - Architectural Drawings.

# **APPENDIX A -**ARCHITECTURAL DRAWINGS



