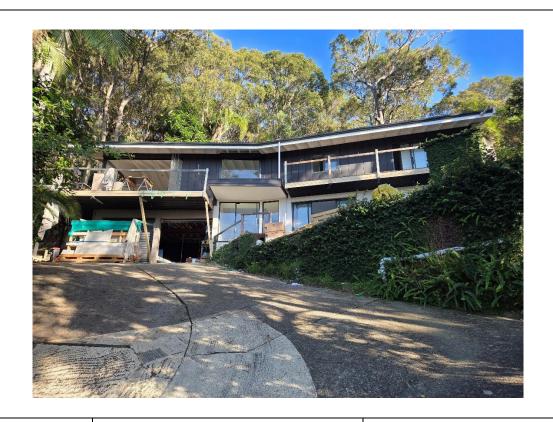
Bushfire Assessment Report
Proposed Residential Building Development
Lot 2 DP 545777
2A William Street
Avalon Beach NSW 2107



10 June 2025



Author: Scott Jarvis
BPAD-Level 3 Certified Practitioner

BPD-PA-18593

FPAA Member No. 18593

BPAD
Bushfire
Planning & Design
Accredited Practitioner
Level 3

Reviewed by:

#### Executive Summary – Achievable (Recommended) AS 3959:2018 Level of Compliance

<b>Construction Standard</b>	Building Elevation
Flame Zone	All Elevations ('Alterations & Additions' Only)
BAL 40	
BAL 29	
BAL 19	
BAL 12.5	Upgrade existing/retained elements (where practicable)
NCC Provisions Only	

## **Table of Contents**

Gener	al Introduction	4
1.0	Property Details	5
2.0	Description of Proposal	6
3.0	Bushfire Assessment	6
3.1	Vegetation (bushfire hazard) within 140m of the proposed building	6
3.2	Distance/Separation between building line and bushfire hazard	8
3.3	Effective slope that will influence bushfire behaviour	8
3.4	Fire Danger Index (FDI) for Local Government Area	8
3.5	Determination of Bushfire Attack Level	8
4.0	Construction for Bushfire Attack Level	8
5.0	Bushfire Protection Measures	9
5.1	Asset Protection Zones	9
5.2	Vehicle Access/Egress (Property Access)	10
5.3	Water Supplies	10
5.4	Electricity Services	11
5.5	Gas Services	11
6.0	Bushfire Safety & Compliance Recommendations	12
6.1	Defendable Space / APZ Recommendations	12
6.2	Construction Standards Recommendations	13
6.3	Vehicle Access/Egress Recommendations	15
6.4	Water Supplies Recommendations	15
6.5	Electricity Services Recommendations	15

6.6	Gas Services Recommendations		
6.7	Bush Fire Survival Plan Recommendations	16	
7.0	Compliance or Non Compliance with PBP 2019 Specific Objectives for Infill  Development		
8.0	Compliance or Non Compliance with PBP 2019	17	
9.0	.0 Statement assessing the likely environmental impact of any proposed bushfire protection measures		
10.0	0.0 Conclusion/Summary		
References/Further Reading			
Appen	dix 1 Site Maps and Plans		
Appen	dix 2 Site Photos (30/5/2025)		

#### **General Introduction**

The following report outlines an assessment for the statutory compliance of the proposed residential building development to occur within 2A William Street, Avalon Beach NSW 2107 – Lot 2 DP 545777 (herewith 'the subject property'), and at least 140m beyond (herewith 'the study area'). Appendix 1 / Map 1 denote the subject property and study area.

Methodology for this site assessment for bushfire attack is based on the planning guideline 'Planning for Bush Fire Protection 2019 (PBP 2019)', produced by the NSW Rural Fire Service.

'Australian Standard 3959:2018 – Construction of buildings in bush fire prone areas', or alternately 'NASH Steel Framed Construction in Bush Fire Areas (NASH 2021)', pursuant to the 'National Construction Cod/Building Code of Australia 2022 (NCC/BCA 2022)', are the primary building compliance documents considered for this assessment.

Terrain (slope) considered by this assessment is based on the Department of Lands Online Six Viewer contours and a site inspection (30/5/2025) of the subject property.

Vegetation extent within the subject area has been derived from available online public vegetation mapping studies, aerial photo interpretation and a site inspection (30/5/2025) conducted prior to finalising this report.

The extent and location of the proposed 'Alterations & Additions' to an existing residential building are based on DA drawings prepared by Jane Edwards Architecture (Drawing Nos. DA00 – DA19, Revision B, Dated 23/5/2025).

Photographic evidence of the subject property and surrounds is appended to this report (Appendix 2 – Site Photos, Dated 30/5/2025).

#### 1.0 Property Details

**Applicants Name:** George & Lisa Tremopoulos (herewith, 'the proponent')

**Council:** Northern Beaches Council (Northern Beaches LGA)

Council Reference: N/A

**Lot:** 2 **DP:** 545777 **Area:** 942.5m<sup>2</sup>

**Address/Location:** 2A William Street, Avalon Beach NSW 2107.

**Zoning:** 'C4 – Environmental Living'

Pittwater LEP 2014

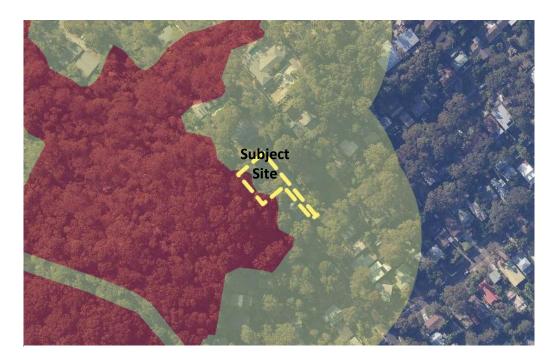
**Bushfire Prone Land: YES** 

The subject property is mapped as being bushfire prone as currently shown by the Northern Beaches Council LGA Bushfire Prone Land Map (s10.3~EP&A~Act~1979). The site is constrained by vegetation classified as 'Category 1 Bushfire Vegetation'. In this regard, any new building development should conform to the specifications and requirements of the document 'Planning for Bush Fire Protection 2019', produced by the NSW Rural Fire Service, that are relevant to the development; as otherwise required under Section 4.14 Environmental Planning & Assessment Act 1979 (EP&A Act 1979).

#### **Other Known Constraints:**

A desktop assessment of the publicly available council mapping and planning enquiry system has found no constraints to be considered in regard to development upon the subject property.

No known significant environmental features have been noted, recorded or advised of as part of this assessment.



**Extract Northern Beaches Council LGA Bushfire Prone Land Map** 

#### 2.0 Description of Proposal

☐ New Building	☑ Urban	☐ Dual Occupancy
☐ Rural Residential	☑ Alterations/Additions	☐ Isolated Rural

#### **Proposal Description**

The proposed building development is to construct 'Alterations & Additions' to an existing residential building/dwelling structure (Class 1 (a) – as defined by NCC – BCA), inclusive of a new detached garage/gym and the reconfiguration of the existing garage into a residential area, an inground pool and all associated infrastructure.

The extent and location of the proposed 'Alterations & Additions' to an existing residential building are based on DA drawings prepared by Jane Edwards Architecture (Drawing Nos. DA00 – DA19, Revision B, Dated 23/5/2025).

The approximate location/site of the proposed building (herewith 'the subject development') is as denoted in Appendix 1 - Map 1.

#### 3.0 Bushfire Assessment

#### 3.1 Vegetation (bushfire hazard) within 100m of the proposed building

The vegetation within the study area is mapped as 'Bushfire Prone Vegetation Category 1' on Council Bushfire Prone Land Maps.

The primary vegetation constraining the development is located within some adjacent residential sites to the South East, extending into the public reserve known as Stapleton Park, to the North West – South West of the subject site.

All vegetation in the area has been mapped in local studies as 'Northern Hinterland Wet Sclerophyll Forest'.

Based on a determination of vegetation formation using the Keith 2004 Identification Key, the bushfire vegetation having the potential to affect the subject development, based on a site visit, is most representative is 'Forest'.

The subject development would potentially (currently) be prone to bushfire attack from the North West – South directions. The extent of the current bushfire vegetation (hazard) is clearly denoted in Appendix 1 - Map 1.

PBP 2019 (Appendix 1 Section A1.10) states, 'The following exclusions of AS3959 apply, and are not required to be considered for the purposes of PBP, as detailed below:

- Single areas of vegetation less than 1 hectare in area and greater than 100metres separation from other areas of Category 1 and 2 vegetation.
- Multiple areas of vegetation less than 0.25 hectares in area and not within 20m of the site, or each other or of other areas of vegetation being classified vegetation.
- Strips of vegetation less than 20m in width (measured perpendicular to the elevation exposed to the strip of vegetation) regardless of length and not within 20m of the site or other areas of vegetation being Category 1, 2 or 3 vegetation.
- Vegetation regarded as low threat due to factors such as flammability, moisture
  content or fuel load, including grassland managed in a minimal fuel condition,
  mangroves and other saline wetlands, maintained lawns, golf courses such as playing
  areas and fairways, maintained public reserves and parklands, sporting fields,
  vineyards, orchards, banana plantations, market gardens and other non-curing crops,
  cultivated gardens, arboretums, commercial nurseries, nature strips and windbreaks.
- Existing areas of managed gardens and lawns within curtilage of buildings.
- Non-vegetated areas including waterways, roads, footpaths, buildings and rocky outcrops.

The proposed development is located within a well-established residential subdivision.

Most adjoining residential sites have large areas clear of persistent vegetation and could be considered 'cleared and managed lands'.

The proposed development also adjoins a road reserve (William Street) on the South Eastern boundary (via a battleaxe arrangement).

The approximate / estimated extent of these managed lands is clearly denoted in Appendix 1 – Map 1. Relevant photos attached (Appendix 2 Site Photos).

#### 3.2 Distance/Separation between building line and bushfire hazard

For the purposes of bushfire safety compliance, this assessment notes that the subject property will not contain any persistent bushfire vegetation. Considering the location of the proposed development and the extent of the bushfire vegetation, the achievable separation distance has been assessed as:

Direction	South East	South West
Distance	>1m	>3m

#### 3.3 Effective slope that will influence bushfire behaviour

The effective slope within approximately 100m of the subject development site, which would influence bushfire behaviour, has been assessed as predominately;

Direction	South East	South West
Slope	>5 – 10 Degrees Downslope	Upslope / Flat

3.4	Fire Danger Index	FDI) for Local Governme	nt Area (LGA)
-----	-------------------	-------------------------	---------------

<b>☑</b> 100	□ 80	□ 50
--------------	------	------

Northern Beaches Council – Greater Sydney Region

(NSW Local Government Areas Community Resilience May 2017 – NSW RFS)

#### 3.5 Determination of Bushfire Attack Level (PBP 2019 – Table A1.12.5)

Direction	Vegetation	Slope	Minimum	BAL Exposure
			Distance	Level
South East	Forest	>5 – 10 Degrees Downslope	>1m	BAL – FZ
South West	Forest	Upslope / Flat	>3m	BAL – FZ

### 4.0 AS 3959:2018 Construction Standard for Bushfire Attack Level (NCC – BCA DtS)

Building Elevations	Vegetation	Slope	Minimum Distance	Construction Standard
All	Forest	Upslope / Flat to	>1m – 3m	BAL – FZ
Elevations		>5 – 10 Degrees		
		Downslope		

Considering the subject developments location and the calculated extent of the APZ area recommended by this report, the subject development is technically capable of complying with AS 3959:2018 / NASH 2021.

#### 5.0 Bushfire Protection Measures

Pursuant to 'PBP 2019 – Section 7 Residential Infill Development', there is a requirement to address certain 'Bushfire Protection Measures' (BPM) under the Section 4.14 EP&A Act 1979 for new residential 'infill' development in bushfire prone areas. The intent of the BPM's 'is to minimise the risk of bushfire attack and provide protection for emergency services personnel, residents and others assisting firefighting activities'.

It is also noted 'where a development expectation arises from the zoning of the land to build, rebuild, alter or add to a dwelling in pre-existing subdivisions, attempts should be made to find a solution taking into account the risk present. The expectation of building or altering a house is recognised even though the ability to provide for APZs or access requirements now required for residential development may not be possible'.

Proposals for 'infill development' are to:

- Provide a defendable space to enable unimpeded access for firefighting around the building.
- Provide better bushfire outcomes on a redevelopment site than currently exists, commensurate to the level of development.
- Provide access, services and landscaping to aid firefighting operations.
- Not impose an increased bushfire management and maintenance responsibility on adjoining land owners.
- Increase the level of bushfire protection to existing dwellings based on the scale of the proposed work and level of bushfire risk.

#### 5.1 Asset Protection Zones

*PBP 2019* acceptable solutions for Asset Protection Zones (for this specific development location) state that;

- An APZ is provided in accordance with Table A1.12 in Appendix 1.
- APZs are managed in accordance with the requirements of Appendix 4 of PBP.
- APZs are wholly within the boundaries of the development site.
- APZs are located on lands with a slope less than 18 degrees.

The subject site benefits from some managed lands within the site, and external to the site (being a managed road reserve).

Some adjacent residential lands are also free from any bushfire risk.

Asset Protection Zone recommendations are as listed in Section 6.1 (Bushfire Safety & Compliance Recommendations).

#### 5.2 Access (Property Access)

PBP 2019 acceptable solutions for access (for this specific development location) state that;

'There are no specific access requirements apply in an urban area where an unobstructed path (no greater than 70m) is provided between the most distant external part of the proposed dwelling and the nearest part of the public access road (where the road speed limit is not greater than 70kph) that supports the operational use of emergency firefighting vehicles'.

The subject property will continue to be accessed by way of a sealed all weather driveway, directly off William Street (via a battleaxe arrangement), which is part of the public road system.

William Street is a sealed all weather road 6m in width within a road reserve of 20m. The local speed limit is 50 kph.

The public road system servicing the proposed development is able to provide safe operational access for emergency services and egress in varying directions for evacuating residents.

#### 5.3 Water Supplies (Reticulated)

<b>☑</b> Yes	□ No	☐ Proposed
M tes		□ Proposed

*PBP 2019* acceptable solutions for a reticulated water supply area (relevant to the subject development) state that:

- Reticulated water is to be provided to the development, where available.
- Fire hydrant spacing, design and sizing comply with the relevant clauses of AS 2419.1:2005.
- Hydrants are not located within any road carriageways.
- Reticulated water supply to urban subdivisions uses a ring main system for areas with perimeter roads.
- Fire hydrant flows and pressures comply with the relevant clauses of AS 2419.1:2005.
- All above-ground water service pipes external to the building are metal, including and up to any taps.

The subject development/building is currently connected to a reticulated water supply which services the existing residential area within William Street.

Apart from the above, the proponent has not provided any specific advice (at the time of this assessment) regarding the reticulated water infrastructure and mains size, supply pressure or guarantee of delivery.

Considering the building site denoted by this report (and corresponding access / driveways), the subject building would be <90m from the nearest and reasonably available fire hydrant connection point (approximately 80m) as denoted in attached Map 1.

Firefighting water supply recommendations are as listed in Section 6.4 (Bushfire Safety & Compliance Recommendations).

#### 5.4 Electricity Services

*PBP 2019* acceptable solutions for electrical services (relevant to the subject development) state that:

- Where practicable, electrical transmission lines are located underground; and
- Where overhead electrical transmission lines are proposed, as follows:
  - Lines are installed with short pole spacings (30m), unless crossing gullies, gorges or riparian areas; and
  - No part of a tree is closer to a power line than the distance set out in accordance with the specifications in 'ISSC3 Guideline for Managing Vegetation Near Power Lines'.

The subject development site is currently serviced by an aboveground electrical supply grid which services the residential subdivision within William Street. The connection to the existing residence has been redirected underground. It is not proposed, as part of this development, to alter the existing arrangement.

Electrical service recommendations are as listed in Section 6.5 (Bushfire Safety & Compliance Recommendations).

# S.5 Gas Services Reticulated Gas: □ Yes ☑ No Bottled Gas: ☑ Yes □ No PBP 2019 acceptable solutions for gas services (relevant to the subject development) state that:

- Reticulated or bottled gas is installed and maintained with AS/NZ 1596:2014 and the requirements of relevant authorities, and metal piping is used.
- All fixed gas cylinders are kept clear of all flammable materials to a distance of 10m and shielded on the hazard side.
- Connections to and from gas cylinders are metal.
- Polymer-sheathed flexible gas supply lines are not used.
- Above-ground gas service pipes are metal, including up to any outlets.

Gas service recommendations are as listed in Section 6.6 (Bushfire Safety & Compliance Recommendations).

#### 6.0 Bushfire Safety & Compliance Recommendations

#### 6.1 Defendable Space / Asset Protection Zone (APZ) Recommendations

#### **Recommendation 1.**

#### **Inner Protection Area**

As denoted in Appendix 1 – Map 1, the area identified as 'Inner Protection Area' (IPA)' is to be managed / maintained as an APZ for the life of the development.

The IPA is the area closest to the building and creates a fuel managed area which can minimise the impact of direct flame contact and radiant heat on the development and act as a defendable space.

Vegetation within the IPA should be kept to a minimum level. Litter fuels within the IPA should be kept below 1cm in height and be discontinuous.

In practical terms the IPA is typically the curtilage around the building, consisting of a mown lawn and well maintained gardens. When establishing and maintaining an IPA the following requirements apply.

#### **Trees**

- Tree canopy cover should be less than 15% at maturity;
- Trees at maturity should not touch or overhang the building;
- Lower limbs should be removed up to a height of 2m above the ground;
- Tree canopies should be separated by 2m to 5m; and
- 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; and
- Clumps of shrubs should be separated from exposed windows and doors by a distance of at least twice the height of the vegetation.

#### Grass

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

#### 6.2 Construction Standard Recommendations

Construction standards have been determined from the following sections of the planning guidelines and are based on the relevant bushfire assessment as discussed above.

AS 3959:2018 Section 3 Construction General (See Recommendation 2)

AS 3959:2018 Section 9 Construction for Bushfire Attack Level Flame Zone (BAL – FZ) (See Recommendation 3)

Steel Framed Construction in Bushfire Areas (NASH 2021)

#### **Recommendation 2.**

Where any part of a garage, carport, veranda or similar roofed structure is attached to, or shares a common roof space with, or is within 6m of, a building required to comply with the standard, the entire structure shall comply with the construction requirements of the standard (as per Recommendation 2), as applicable to the subject building.

Alternatively, the structure may be separated from the subject building by a wall complying with AS 3959:2018 Section 3.2.1 a) or b) i.e. fire rated construction as specified.

#### Recommendation 3.

Predicated upon the maintenance of the APZ area as per Recommendation No. 1 of this report, it is recommended the proposed development incorporate, as a minimum, the following levels of construction as per AS 3959:2018 Construction of buildings in bushfire prone areas;

#### All Elevations ('Alterations & Additions' only – Including Gym)

Construction for Bushfire Attack Level FZ (BAL – FZ) – Section 9 (AS 3959:2018)

Alternately, the relevant sections of 'NASH Standard – Steel Framed Construction in Bushfire Areas (NASH 2021)' may be applied.

#### Existing / Retained Building Elements

The existing building is required to be upgraded to improve ember protection, as per the Building Best Practice Guide – Upgrading of Existing Buildings (Development Assessment & Planning, NSW Rural Fire Service, Reference 0914).

This is to be achieved by enclosing all openings (excluding roof tile spaces) or covering openings with a non-corrosive metal screen mesh with a maximum aperture of 2mm.

Where applicable, this includes any sub floor areas, open able windows, vents, weepholes and eaves. External doors are to be fitted with draft excluders.

#### Recommendation 4.

#### Sarking

All sarking used shall be:

- Non-combustible, or
- Breather type sarking complying with AS/NZS 4200.1 and with a flammability index of not more than 5 (see AS 1530.2) and sarked on the outside of the frame, or
- An insulation material conforming to the appropriate Australian Standard for that material.

#### Fences & Gates

Any new fences and gates should be constructed of a non-combustible material.

#### **Retaining Walls**

Any new retaining walls should be constructed of a non-combustible material.

#### 6.3 Vehicle Access / Egress Recommendations

#### Recommendation 5.

The proposed building development will continue to incorporate an all-weather driveway area for vehicle access and parking within the subject property. The access road / driveway will continue to provide direct access from William Street.

No additional vehicle access requirements are recommended.

#### 6.4 Water Supplies Recommendations

#### Recommendation 6.

- Reticulated water is to be provided to the development.
- Fire hydrant spacing, design and sizing comply with the relevant clauses of AS 2419.1:2005 (reasonably assumed).
- All exposed water pipes external to the building are metal, including any fittings.
- Hydrants are not located within any road carriageways.

#### 6.5 Electricity Services Recommendations

#### **Recommendation 7.**

As the electricity supply has previously been relocated underground, no additional electricity supply conditions (above and beyond standard Council and Energy Supplier conditions) are required for *PBP 2019* compliance.

#### 6.6 Gas Services Recommendations

#### **Recommendation 8.**

- Any future / new bottled gas is installed and maintained with AS/NZ 1596:2014 and the requirements of relevant authorities.
- All fixed gas cylinders are kept clear of all flammable materials to a distance of 10m and shielded on the hazard side.
- Connections to and from gas cylinders are metal.
- Polymer-sheathed flexible gas supply lines are not used.
- Above-ground gas service pipes are metal, including up to any outlets.

#### 6.7 Bush Fire Survival Plan Recommendations

#### Recommendation 9.

Discuss and prepare a simple 'Bush Fire Survival Plan' pursuant to the NSW Rural Fire Service's advice (<a href="https://www.rfs.nsw.gov.au/plan-and-prepare/bush-fire-survival-plan">https://www.rfs.nsw.gov.au/plan-and-prepare/bush-fire-survival-plan</a>).

# 7.0 Compliance or non-compliance with PBP 2019 Specific Objectives for Infill Development (as per *PBP 2019 Section7.3*)

Specific Objective	Comment
Provide a defendable space to enable unimpeded access for firefighting around the building.	A complying APZ (defendable space) has been recommended. This space consists of an area maintained as an IPA.
Provide better bushfire outcomes on a redevelopment site than currently exists, commensurate with the scale of works proposed.	Bushfire fuel management, and other bushfire protection measures, contained within the subject property will effectively reduce the risk to both the subject property and adjoining premises.
Design and construct buildings commensurate with the bushfire risk.	Recommendations, relating to the construction of the residence include BAL FZ building construction standards.
Provide access, services and landscaping to aid firefighting operations.	The recommendations (above) relating to the design and construction of the development include a range of 'bushfire protection measures' that will enhance the chances of occupant and building survival.
Not impose an increased bushfire management and maintenance responsibility on adjoining landowners.	The subdivision is pre-existing. The construction of this development will not increase the bushfire risk to adjoining land, nor increase bushfire management and maintenance responsibility on adjoining landowners.
Increase the level of bushfire protection to existing dwellings based on the scale of the proposed work and level of bushfire risk.	The site is located within an existing residential subdivision. The exiting dwelling will be subject to a minor upgrade, to improve ember protection only.

# 8.0 Compliance or non-compliance with PBP 2019 Performance Criteria and intent for bushfire safety protection measures for infill development.

Performance Criteria	Comment
APZ	Can Comply – Recommendation No. 1
APZs are provided commensurate with the construction of the building.	A defendable space will be provided within the site boundaries with the site being maintained as an IPA.
A defendable space is provided.	
APZs are managed and maintained to prevent the spread of fire to the building.	This is complimented by 'cleared and managed lands' on adjoining properties.
The APZ is provided into perpetuity.	
APZ maintenance is practical, soil stability is not compromised and the potential for crown fires is minimised.	
Access	Can Comply – Recommendation No. 5
Firefighting vehicles are provided with safe all-weather access to structures and hazard vegetation.	Access/Egress is provided from William Street.
The capacity of access roads is adequate for firefighting vehicles.	The access arrangements are sufficient for operational firefighting and emergency egress.
There is appropriate access to water supply.	egiess.
Firefighting vehicles can access the dwelling and exit the property safely.	
Water Supplies	Can Comply – Recommendation No. 6
An adequate water supply is provided for firefighting purposes.	
Water supplies are located at regular intervals.	
The water supply is accessible and reliable for firefighting operations.	
Flows and pressures are appropriate.	
The integrity of the water supply is maintained.	
A static supply is provided for firefighting purposes in areas where reticulated water is not available.	

Electrical Services  Location of the electrical services limits the possibility of ignition of surrounding bushland or the fabric of the buildings.	Can Comply – Recommendation No. 7
Gas Services  Location and design of the gas services will not lead to of ignition of surrounding bushland or the fabric of the buildings.	Can Comply – Recommendation No. 8
Construction Standards  The proposed building can withstand bushfire attack in the form of embers, radiant heat and flame contact.  Proposed fences and gates are designed to minimise the spread of bushfire.  Proposed Class 10a buildings are designed to minimise the spread of bushfire.	Can Comply – Recommendation Nos. 2 – 4  Predicated upon the recommended APZ areas and siting requirements, BAL FZ building construction standards can achieve the performance requirements of the planning legislation.
Landscaping  Landscaping is designed and managed to minimise flame contact and radiant heat to buildings, and the potential for wind driven embers to cause ignitions.	Can Comply – Recommendation No. 1

# 9.0 Statement assessing the environmental impact of any proposed bushfire protection measures.

Bushfire Protection Measure	Likely Environmental Impact	Comment
APZ (Rec. No. 1)	Minor	The recommended APZ will require some initial vegetation management (tree canopy separation and trimming over roof lines etc.).
Construction Standard (Rec. Nos. 2 - 4)	Insignificant	Development to be constructed within approved / current building envelope.
Water Supply for fire fighting (Rec. No. 6)	Insignificant	A reticulated water supply currently services the existing development.

Utility service protection (Rec. Nos. 6 - 8)	Insignificant	Utilities are currently located within the APZ, or underground.
Vehicle Access (Rec. No. 5)	Insignificant	Direct access to public road system is by way of an existing short, cleared driveway.

#### 10.0 Conclusion/Summary

Based on the above assessment and the 9 recommendations to protect persons and property from danger that may arise from a bushfire, the Consent Authority should determine that this development proposal can comply with *Planning for Bush Fire Protection 2019* as required under *Section 4.14 of the Environmental Planning and Assessment Act 1979.* 

As a considered opinion, the recommended mitigation measures and construction requirements as stated in this report would reasonably address the aims and objectives of *PBP 2019*, consistent within the relative and current bushfire risk to the subject development site.

As infill development, the residence will be able to fully comply with the Acceptable Solutions provided within *PBP 2019*.

In this regard, the subject development can reasonably facilitate *PBP 2019* objectives in as far as;

- Afford buildings and their occupants protection from exposure to a bushfire;
- Provide for a defendable space to be located around buildings;
- Provide appropriate separation between a hazard and buildings which, in combination with other measures, prevent the likely spread to buildings;
- Ensure the appropriate operational access and egress for emergency service personnel and residents is available;
- Provide for ongoing management and maintenance of bushfire protection measures;
   and
- Ensure that utility services are adequate to meet the needs of firefighters.

Should any of the above information require clarification or further discussion, please contact the author.

#### **Scott Jarvis**

Graduate Diploma Design for Bushfire Prone Areas
Diploma of Building Surveying
Diploma of Public Safety (Fire Fighting Management) (Dip PSFM)
Cert. IV Residential Building Studies
Member No. 18593 Fire Protection Association Australia

BPAD-Level 3 Certified Practitioner BPD-PA-18593
Mob: 0414 808 295 Ph/Fax.: (02) 9369 5579
Email: scott@sydneybushfireconsultants.com.au

(Note: Scott Jarvis is a recognised / suitably qualified consultant pursuant to Rural Fire Service of NSW requirements - Community Resilience Fact Sheet - Requirements for Suitably Qualified Consultants 8/15, Fast Fact 5/10 Version 3 Dated 7 March 2011 & Development Control Practice Note 1/10 Version 2 Dated 4 February 2011)

#### **References/Further Reading**

Australian Standard 3959:2018, Construction of buildings in bushfire prone areas – Standards Australia.

Building Best Practice Guide – Upgrading of Existing Buildings (Development Assessment & Planning, NSW Rural Fire Service, Reference 0914).

*NASH Standard – Steel Framed Construction in Bushfire Areas (2021) –* National Association of Steel-Framed Housing Inc.

National Construction Code – Building Code of Australia (2022) – Australian Building Codes Board, Canprint.

Environmental Planning and Assessment Act (1979) – NSW Government Printer.

- Section 4.14 Consultation and Development Consent Certain Bushfire Prone Land
- Section 10.3 Bushfire Prone Land

Rural Fires Act (1997) – NSW Government Printer

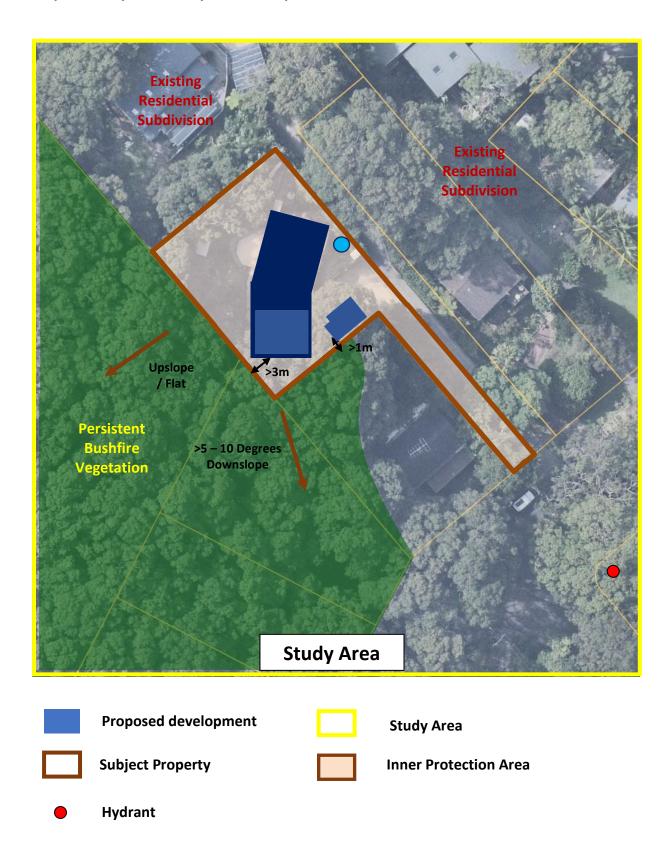
Landscape and building design for bushfire areas (2003) – Ramsay G C & Rudolf L, CSIRO Publishing, Collingwood Victoria.

Ocean shores to desert dunes: the native vegetation of NSW and the ACT (2004) – Keith D, NSW Dept of Environment and Conservation, Hurstville NSW.

Planning for Bush Fire Protection. A guide for councils, planners, fire authorities and developers (November 2019) – NSW Rural Fire Service.

## Appendix 1

Map 1 – Study Area / Subject Lot / Slopes / APZ extent



## Appendix 2 – Site Photos (30/5/2025)



**Existing residence, looking West** 

**Existing residence, looking North West** 





**Existing electrical supply** 

**Reticulated water supply** 





William Street, looking North East

**Battleaxe driveway, looking North West** 



**Typical vegetation, looking South East** 



Typical persistent vegetation, looking South



Typical persistent vegetation, looking West



Northern section of site (pool location)