

Bushfire Assessment Report

Proposed:
**Alterations and
Additions**

At:
**30 Davidson Avenue,
Forestville**

Reference Number: 201454

Prepared For:
Nicole Cabbin

3rd June 2020

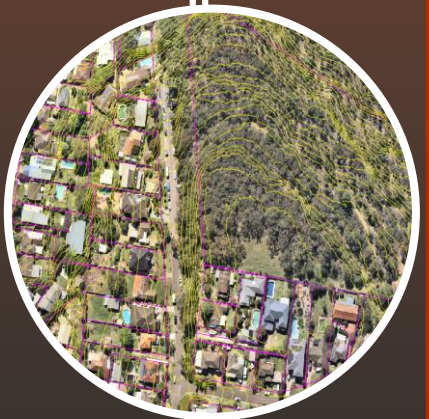
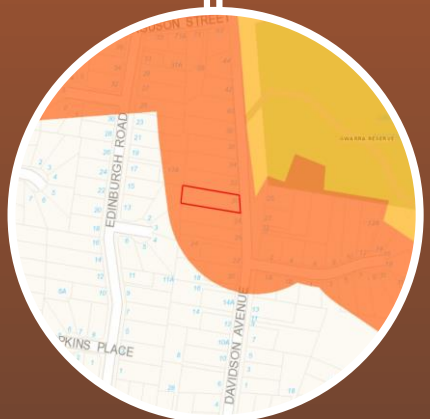


Prepared By:
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S4.14 applications (under the Environmental Planning and Assessment Act 1979) and all infill development applications may be referred by Council to the NSW Rural Fire Service for review and concurrence during the DA process. S100B applications under the Rural Fires Act 1997 (subdivisions and Special Fire Protection Purpose Developments), Flame Zone determinations and Alternate Solutions must be referred by Council to the NSW Rural Fire Service for review and receipt of a Bushfire Safety Authority (BSA) or other such recommended conditions from the NSW Rural Fire Service before the consent can be granted.

The onus is on the applicant to cross reference this document with any conditions of consent issued by Council or any requirements supplied by the NSW Rural Fire Service following development approval. BCBHS can review and cross reference these documents however the onus is on the applicant to provide them to us and request this review – Building Code and Bushfire Hazard Solutions Pty. Ltd. is not in a position to track every DA through Council and we rely upon the applicant to undertake this role as project co-ordinator.

Where any discrepancy between this document and the development approval or the NSW Rural Fire Service requirements is found, the conditions of consent always take precedence until such time as an application to review, amend or vary these conditions is approved.

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Version Control				
Version	Date	Author	Reviewed by	Details
1	3/06/2020	Andrew Muirhead	Stuart McMonnies BPAD Accreditation No. 9400	Final Report

List of Abbreviations:

APZ	Asset Protection Zone
AS3959	Australian Standard 3959 – 2018
BAL	Bushfire Attack Level
BPMs	Bushfire Protection Measures
BPLM	Bushfire Prone Land Map
Council	Northern Beaches Council
DA	Development Application
ELVIS	Elevation and Depth Foundation Spatial Data
EP&A Act	<i>Environmental Planning and Assessment Act - 1979</i>
ESD	Ecologically Sustainable Development
FRNSW	Fire and Rescue NSW
IPA	Inner Protection Area
NASH	National Association of Steel-framed Housing
NCC	National Construction Code
NP	National Park
NSP	Neighbourhood Safer Place
OPA	Outer Protection Area
PBP	<i>Planning for Bush Fire Protection – November 2019</i>
ROW	Right of Way
RF Act	<i>Rural Fires Act - 1997</i>
RFS	NSW Rural Fire Service
SEPP	State Environmental Planning Policy
SFPP	Special Fire Protection Purpose
SWS	Static Water Supply

1.0 Introduction

The development proposal relates to the alterations and additions to an existing sole occupancy dwelling and construction of cabana and pool within an existing residential allotment located at 30 Davidson Avenue, Forestville (Lot 16 DP 31499).

The subject property is a residential allotment which has street frontage to Davidson Avenue to the east and abuts private allotments to the north, south and west. The vegetation identified as being the hazard is within Gwarra Reserve to the north and northeast.

Northern Beaches Council's Bushfire Prone Land Map identifies the subject property as containing the 100 metre buffer zone from Category 1 Vegetation therefore the application of Planning for Bush Fire Protection - 2019 (PBP) must apply in this instance.

2.0 Purpose of Report

The purpose of this Bushfire Assessment Report is to provide the owners and Council with an independent bushfire hazard determination together with appropriate recommendations for both new building construction and bushfire mitigation measures considered necessary having regard to construction within a designated 'bushfire prone' area.

The recommendations contained within this report may assist in forming the basis of any specific construction conditions and/or bushfire mitigation measures that Council and/or the NSW Rural Fire Service may elect to place within any consent conditions issued for the subject Development Application.

3.0 Scope of this Report

The scope of this report is limited to providing a bushfire hazard assessment and recommendations for the subject property. Where reference has been made to the surrounding lands, this report does not purport to directly assess those lands; rather it may discuss bushfire impact and/or progression through those lands and possible bushfire impact to the subject property.

Where Council considers a bushfire risk is associated with surrounding private lands or lands owned by an authority, Council could seek to issue notice under Section 66 of the Rural Fires Act on any or all surrounding properties for the purposes of reducing and maintaining safe levels of vegetation and thus reducing the possibility of bushfire impact to the subject property and any adjoining properties.

4.0 Referenced Documents and Persons

Comments provided are based on the requirements of the NSW Environmental Planning and Assessment Act - 1979 (EP&A Act), the RFS document known as 'Planning for Bush Fire Protection - 2019' for the purposes of bushfire hazard determination and Australian Standard 3959 - 2018 titled 'Construction of buildings in bushfire-prone areas' as amended for building/structural provisions.

A company representative has undertaken a site inspection of the subject property and the surrounding area.

The plans by Rapid Plans, Revision 6, Date 28/04/20 have been referenced in the preparation of this report.

5.0 Compliance Tables & Notes

The following table sets out the projects compliance with *Planning for Bush Fire Protection – 2019*.

	North	Northeast	South	West
Vegetation Structure	Forest	Forest	Maintained curtilages	Maintained curtilages
Slope	10 - 15 degrees down	0 degrees and up	N/A	N/A
Asset Protection Zone to Dwelling	>78 metres	>22 metres	N/A	N/A
Asset Protection Zone to Pool & Cabana			N/A	N/A
Significant Landscape Features	Neighbouring private residential allotments / Davidson Avenue	Davidson Avenue / Gwarra Reserve	Neighbouring private residential allotments	Neighbouring private residential allotments
Threatened Species	APZ Existing	APZ Existing	APZ Existing	APZ Existing
Aboriginal Relics	APZ Existing	APZ Existing	APZ Existing	APZ Existing
Bushfire Attack Level	BAL 12.5	BAL 40	N/A	N/A
Required Construction Level for Dwelling	BAL 40	BAL 40	BAL 29	BAL 29
Required Construction Level for Pool & Caban	BAL 12.5	BAL 12.5	BAL 12.5	BAL 12.5

Asset Protection Zones Compliance

The available Asset Protection Zones (APZs) were measured to be >78 metres to the north and >22 metres from the hazard interface to the northeast. The APZs consist of grounds within the subject property and managed lands being Davidson Avenue.

Compliance Summary of Bushfire Protection Measures Assessed			
Bushfire Protection Measure	Acceptable Solution	Performance Solution	Report Section
Asset Protection Zones	☒	☐	7.05
Construction Standard	☒	☐	8.05
Access	☒	☐	7.06
Water Supply	☒	☐	7.07
Gas and Electrical Supplies	☒	☐	5.0

Construction Level Compliance

The highest Bushfire Attack Level to the proposed works was determined from Table A1.12.5 of PBP – 2019 to be 'BAL 40'. The proposed works are therefore required to comply with BAL 40 under section 3 and 8 of AS 3959 – 2018 and the additional construction requirements under section 7.5 of PBP 2019. In accordance with A1.8 the western and southern elevations can be downgraded to BAL 29 due to shielding by the dwelling itself.

The highest Bushfire Attack Level to the proposed pool and cabana was determined from Table A1.12.5 of PBP – 2019 to be 'BAL 12.5'. The proposed pool and cabana are therefore required to comply with BAL 12.5 under section 3 and 5 of AS 3959 – 2018 and the additional construction requirements under section 7.5 of PBP 2019.

Access and Services

Guideline Ref.	Proposed Development Determinations
Property Access (Driveway)	The most distant external point of the subject dwelling will be within 70 metres of a public road supporting a hydrant network and therefore the Property Access requirements detailed in Table 7.4a of PBP are not applicable.
Water Supply	The most distant external point of the building footprint will be within 70 metres from a public road supporting a hydrant network and therefore the Static Water Supply requirements detailed in section 7.4 are <u>not</u> required. Regardless the proposed swimming pool provides an additional supply.
Evacuation	Evacuation is possible by utilising existing road infrastructure. It is encouraged that the occupants complete a Bush Fire Survival Plan addressing "Prepare, Act Survive" as advocated by the NSW RFS http://www.rfs.nsw.gov.au/ under publications / bushfire safety.
Electrical Supply	Existing supply provided.
Gas Supply	Gas supply can comply

6.0 Aerial view of the subject allotment



Image 01: Aerial view of the subject area C/- Nearmap

7.0 Bushfire Hazard Assessment

7.01 Preface

Properties considered to be affected by possible bushfire impact are determined from the local Bushfire Prone Land Map as prepared by Council and or the Rural Fire Service. All property development within affected areas is subject to the conditions detailed in the document 'Planning for Bush Fire Protection - 2019' (PBP). Set back distances for the purpose of creating Asset Protection Zones (APZ's) must be applied and any buildings must then conform to corresponding regulations detailed in Australian Standard 3959 – 2018 'Construction of buildings in bushfire prone areas' or the NASH Standard for steel framed housing in bushfire prone areas 2014.

Planning for Bush Fire Protection 2019, (PBP) formally adopted on the 1st March 2020 provides for the protection of property and life (including fire-fighters and emergency service personnel) from bushfire impact.

The thrust of the document is to ensure that developers of new properties or sub-divisions include the constraints associated with the construction of buildings in bushfire prone areas within their proposed development sites. PBP is applicable to proposed development inside determined Category 1 or 2 areas and also inside a buffer zone radius of 100m from a Category 1 bushfire area or 30m from a Category 2 bushfire area.

The document also acknowledges 'infill' developments associated with re-development of existing properties and allows some higher levels of building safety where the increased 'set backs' (APZ's) may not be achievable.

The subject development relates to the alterations and additions of a sole occupancy dwelling and construction of cabana and pool within an existing residential allotment. To accord with PBP the development is classified as infill development and assessed as a s4.14 application under the Environmental Planning and Assessment Act 1979.

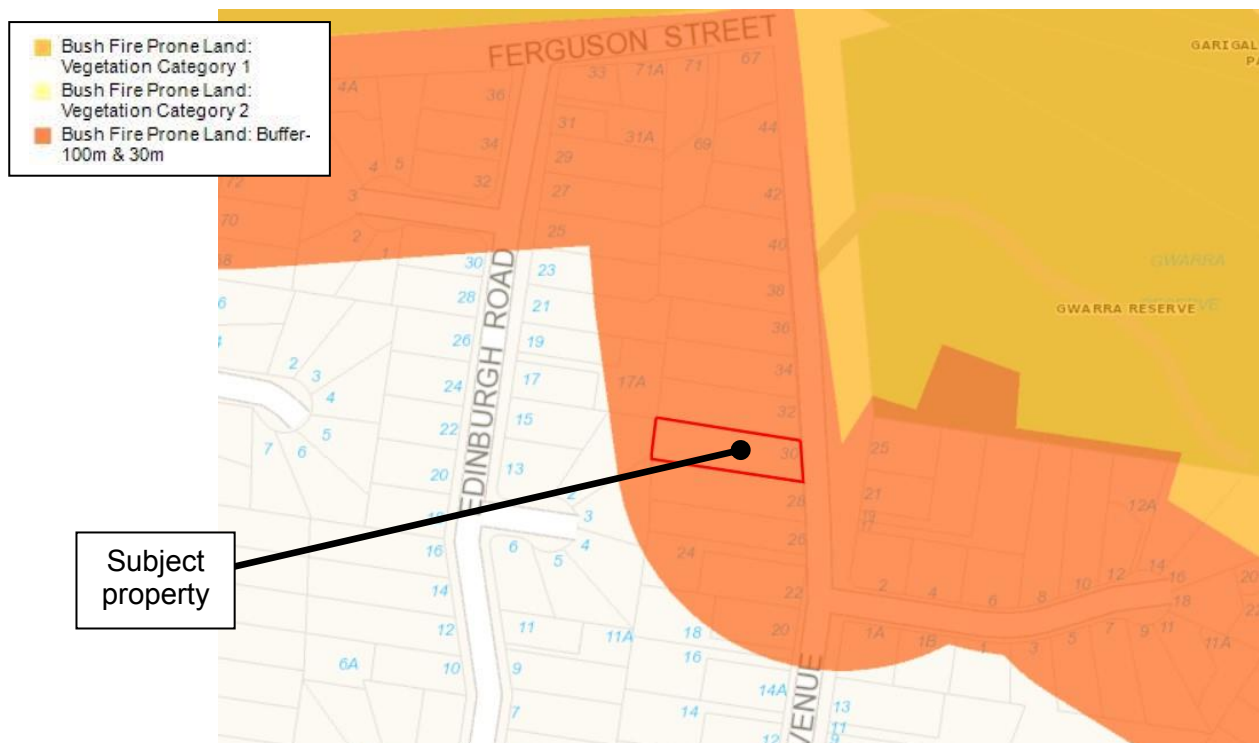


Image 02: Extract from Northern Beaches Council's Bushfire Prone Land Map

7.02 Location

The subject property is known as 30 Davidson Avenue, Forestville and is a residential allotment located within Northern Beaches Councils Local Government Area. The subject property is a residential allotment which has street frontage to Davidson Avenue to the east and abuts private allotments to the north, south and west.

The vegetation identified as being the hazard is within Gwarra Reserve to the north and northeast.

Subject dwelling



Davidson Avenue

Photograph 01: View north from Davidson Avenue toward the subject property

Location of the subject property



Image 03: Extract from street-directory.com.au

7.03 Vegetation

The vegetation identified as being the hazard is within Gwarra Reserve to the north and northeast. The vegetation posing a hazard to the north was found to consist of trees 10 - 30 metres in height with 30 - 70% foliage cover, the understorey consisted of low trees, ferns and shrubs.

For the purpose of assessment under 'Planning for Bush Fire Protection' the vegetation posing a hazard to the north and northeast has been determined to be Forest.

Forest



Photograph 02: View of the vegetation within Gwarra Reserve



Forest

Photograph 03: View of the vegetation within Gwarra Reserve

7.04 Slope and Topography

The slope that would most significantly influence bushfire behaviour must be assessed for a distance of 100 metres from within the hazard. The most significant bushfire impact from the north is expected to be a bushfire travelling up slope toward the subject property and the most significant bushfire impact from the northeast is expected to be travelling across or down slope towards the subject dwelling.

The slope that would **most significantly** influence bushfire impact was determined onsite using an inclinometer and verified from topographic imagery to be:

- 10 - 15 degrees down slope within the hazard to the north
- 0 degrees and up slope within the hazard to the northeast

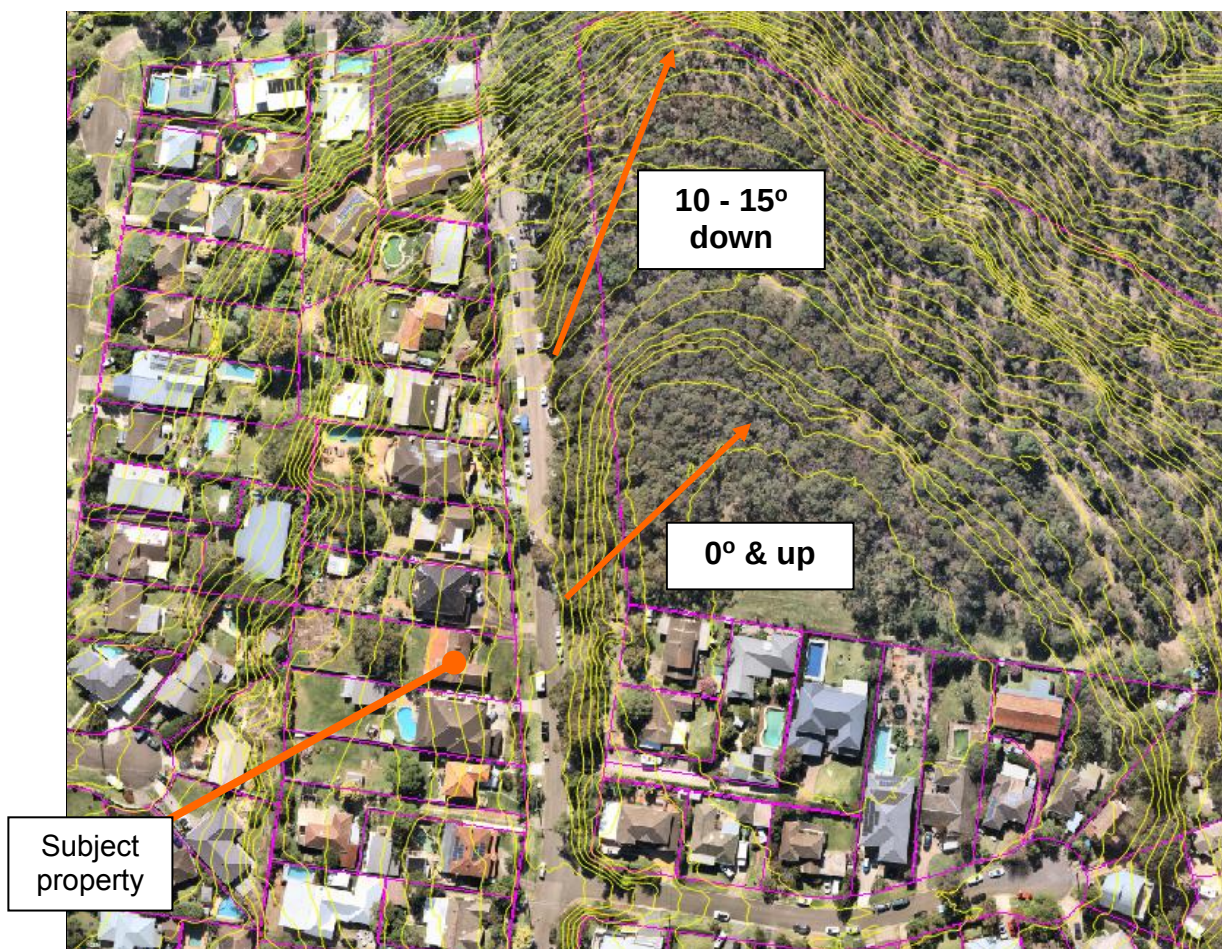


Image 04: Extract from ELVIS – Geoscience Australia (1m Contours)

7.05 Asset Protection Zones

The subject property is a residential allotment located in an area of similar properties. The vegetation identified as being the hazard is within Gwarra Reserve to the north and northeast.

The available Asset Protection Zones (APZs) from the proposed works were measured to be >78 metres from the hazard interface to the north and >22 metres from the hazard interface to the northeast. The APZs consist of grounds within the subject property and managed being Davidson Avenue and neighbouring residential lots.

All APZ within the subject property are to be maintained in accordance with an Asset Protection Zone (IPA) as detailed in the NSW Rural Fire Service's document 'Standards for Asset Protection Zones'.



Photograph 04: View toward the subject property the Gwarra Reserve



Photograph 05: View north along Davidson Avenue forming part of the available APZ

7.06 Property Access – Fire Services & Evacuation

The subject property has street frontage to Davidson Avenue to the east. Persons seeking to egress from the subject property will be able to do so via the existing access drive and public roads.

The most distant external point of the proposed footprint is less than 70 metres from a public road supporting the operational use of fire fighting vehicles and therefore the Property Access requirements detailed in Table 7.4a of PBP 2019 are not applicable.

Access to the hazard is available via Davidson Avenue and existing fire trails within Gwarra Reserve for hazard reduction for fire suppression activities.

The existing access is considered adequate as part of this development

7.07 Fire Fighting Water Supply

Hydrants are available throughout Davidson Avenue and surrounding streets for the replenishment of fire service vehicles. The most distant external point of the subject dwelling is within 70 metres of a public road that supporting a hydrant network and therefore the Static Water Supply requirements detailed in section 7.4 are not required. Regardless the proposed swimming pool provides an additional supply.

The existing water supply is considered adequate as part of this development.



Photograph 06: View from the hydrant towards the subject dwelling

8.0 Site & Bushfire Hazard Determination

8.01 Planning for Bush Fire Protection - 2019

Planning for Bush Fire Protection – 2019 (PBP) is applicable to those lands determined as being within a 'bushfire prone area' in accordance with a local Bushfire Prone Land Map as provided by the Rural Fire Service and Council.

The most appropriate method of determining site bushfire hazard under the terms of PBP is to consider the site in a singular form.

Bushfire prone areas are defined as those areas;

- *within or within 100m of high or medium bushfire hazards; or*
- *within or within 30m of low bushfire hazards.*

In this instance the subject property has been identified as being bushfire prone land therefore it is appropriate to apply PBP as follows:

Northern Aspect:

- a) Vegetation Structure Forest
- b) Slope 10 - 15 degrees down
- c) A >78 metre Asset Protection Zones is available
- d) The Bushfire Attack Level was determined to be 'BAL 12.5'

Northeastern Aspect:

- a) Vegetation Structure Forest
- b) Slope 0 degrees and up
- c) A >22 metre Asset Protection Zones is available
- d) The Bushfire Attack Level was determined to be 'BAL 40'

8.02 Australian Standard AS 3959 – 2018 'Construction of buildings in bushfire –prone areas'

Australian Standard 3959 – 2018 'Construction of buildings in bushfire-prone areas' provides for six (6) levels of building construction these being BAL - Low, BAL - 12.5, BAL - 19, BAL - 29, BAL - 40 and BAL - FZ. The Australian Standard 3959 specifies construction standards for buildings within various Bushfire Attack Levels as determined by the Planning for Bush Fire Protection – 2019 document. The NSW Rural Fire Service will not accept deemed to satisfy provisions for BAL Flame Zone and therefore have a NSW variation to the listed standard provisions of BAL FZ under AS3959 - 2018.

8.03 Correlation between bushfire impact and AS3959

Bushfire Attack Level	Maximum radiant heat impact (kW/m ²)	Level of construction under AS3959-2018
Low		No special construction requirements
12.5	≤12.5	BAL - 12.5
19	12.6 to 19.0	BAL - 19
29	19.1 to 29.0	BAL - 29
40	29.1 to 40.0	BAL - 40
Flame Zone	>40.0	BAL FZ No deemed to satisfy provisions

8.04 Site Specific Bushfire Hazard Determination

All property development must be assessed on an individual basis as broad-brush approaches of documents such as PBP may not be applicable in every instance. The proposed development located at 30 Davidson Avenue, Forestville was assessed against the requirements of Planning for Bush Fire Protection 2019 noting the following:

- a) Water supplies for firefighting purposes are adequate.
- b) Access to the subject property is available from Davidson Avenue.
- c) Fire services can access the hazard via Davidson Avenue and the fire trails within Gwarra Reserve.
- d) Recommendations to maintain the Asset Protection Zones within the subject property will be included.

8.05 Viable Construction Method

The objectives of Planning for Bush Fire Protection – 2019 are for the protection of life including fire fighters. Provided these objectives can be met the construction of buildings is feasible and both the Rural Fire Service and Council should be in a position to consider such applications.

The highest Bushfire Attack Level to the proposed works was determined from Table A1.12.5 of PBP - 2019 to be 'BAL 40'. The new works are therefore required to comply with BAL 40 under AS3959 – 2018 and the additional construction requirements under section 7.5 of PBP 2019. In accordance with A1.8 the western and southern elevations can be downgraded to BAL 29 due to shielding by the dwelling itself.

The highest Bushfire Attack Level to the proposed pool and cabana was determined from Table A1.12.5 of PBP – 2019 to be 'BAL 12.5'. The proposed pool and cabana are therefore required to comply with BAL 12.5 under section 3 and 5 of AS 3959 – 2018 and the additional construction requirements under section 7.5 of PBP 2019.

9.0 Recommendations

The following recommendations are provided as the minimum necessary for compliance with Planning for Bush Fire Protection – 2019 and Australian Standard 3959 'Construction of buildings in bushfire-prone areas - 2018. Additional recommendations are provided to supplement these minimum requirements where considered necessary.

Asset Protection Zones

1. That all grounds within the subject property are to be maintained as an Asset Protection Zone (Inner Protection Area) as detailed in the NSW Rural Fire Service's document 'Standards for Asset Protection Zones' and Appendix 4 of *Planning for Bush Fire Protection* 2019.

Construction

2. That new roofing and construction facing north and east to the dwelling shall comply with BAL 40 under Australian Standard A53959-2018 "Construction of buildings in bush fire-prone areas" Section 8 and section 7.5 of "Planning for Bush Fire Protection" 2019.
3. That all new construction facing south and west to the dwelling shall comply with BAL 29 under Australian Standard A53959-2018 "Construction of buildings in bush fire-prone areas" Section 7 and section 7.5 of "Planning for Bush Fire Protection" 2019.
4. The proposed pool and cabana shall comply with BAL 12.5 under Australian Standard A53959-2018 "Construction of buildings in bush fire-prone areas" Section 5 and section 7.5 of "Planning for Bush Fire Protection" 2019.

Landscaping

5. That any new landscaping is to comply with Section 3.7 'Landscaping' under *Planning for Bush Fire Protection* 2019.

10.0 Conclusion

Given that the property is deemed bushfire prone under Northern Beaches Council's Bushfire Prone Land Map any development would need to meet the requirements of Planning for Bush Fire Protection – 2019 and of the construction requirements of AS3959 – 2018. The determination of any bushfire hazard must be made on a site-specific basis that includes an assessment of the local bushland area and its possible impact to the subject property.

The subject property is a residential allotment within an area of similar properties. The vegetation identified as being the hazard is within Gwarra Reserve to the north and northeast. The vegetation posing a hazard was determined to be Forest. The proposed works will provide a >78 metre Asset Protection Zone (APZ) to the north and a >22 metre APZ to the northeast.

The highest Bushfire Attack Level to the proposed works was determined from Table A1.12.5 of PBP - 2019 to be to be 'BAL 40'. The new works are therefore required to comply with BAL 40 under AS3959 – 2018 and section 7.5 of PBP 2019. In accordance with A1.8 the southern and western elevations can be downgraded to BAL 29 due to shielding by the dwelling itself.

The highest Bushfire Attack Level to the proposed pool and cabana was determined from Table A1.12.5 of PBP – 2019 to be 'BAL 12.5'. The proposed pool and cabana are therefore required to comply with BAL 12.5 under section 3 and 5 of AS 3959 – 2018 and the additional construction requirements under section 7.5 of PBP 2019.

The existing water supply and access provisions are considered adequate for this development.

In accordance with the bushfire safety measures contained in this report, and consideration of the site specific bushfire risk assessment it is our opinion that when combined, they will provide a reasonable and satisfactory level of bushfire protection to the subject development.

We are therefore in support of the development application. Should you have any enquiries regarding this project please contact me at our office.

Prepared by
Building Code & Bushfire Hazard Solutions



Andrew Muirhead

Bushfire Consultant
Diploma of Engineering

Reviewed and endorsed by
Building Code & Bushfire Hazard Solutions P/L



Stuart McMonnies

Manager Bushfire Section
G. D. Design in Bushfire Prone Areas.
Certificate IV Fire Technology
Fire Protection Association of Australia BPAD – L3 Accredited Practitioner
Certification number – BPAD 9400



11.0 Annexure 01

List of Referenced Documents

- a) Environmental Planning and Assessment Act - 1979
- b) 'Planning for Bush Fire Protection'- 2019 - NSW Rural Fire Services & Planning NSW
- c) 'Construction of buildings in bushfire prone areas' - AS 3959 – 2018 (as - amended) – Standards Australia
- d) 'Northern Beaches Council's Bushfire Prone Land Map'
- e) Plans by Rapid Plans, Revision 6, Date 28/04/20
- f) Acknowledgements to:
 - NSW Department of Lands – SIXMaps
 - Street-directory.com.au
 - Geoscience Australia

Attachments

Attachment 01: s4.14 Compliance Certificate



Building Code & Bushfire Hazard Solutions

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BUSHFIRE RISK ASSESSMENT CERTIFICATE UNDER PART 4 DIVISION 4.3 SECTION 4.14 OF THE EP&A ACT 1979 NO 203

PROPERTY ADDRESS:	30 Davidson Avenue, Forestville
DESCRIPTION OF PROPOSAL:	Alterations and Additions
PLAN REFERENCE: (relied upon in report preparation)	Plans by Rapid Plans, Revision 6, Date 28/04/20
BAL RATING:	BAL 40 (If the BAL rating is FZ the application is to be referred to NSW RFS for assessment)
DOES THE PROPOSAL RELY ON ALTERNATE SOLUTIONS:	YES ☒ NO ☐ (Circle the relevant response) (If YES the application is to be referred to NSW RFS for assessment)
BUSHFIRE ASSESSMENT REPORT REFERENCE:	201454
REPORT DATE:	3 rd June 2020
CERTIFICATION NO/ACCREDITED SCHEME	BPAD9400

I Stuart McMonnies of Building Code and Bushfire Hazard Solutions Pty Ltd hereby certify, in accordance with Part 4 Division 4.3 Section 4.14 of the *Environmental Planning and Assessment Act 1979 No 203*:

- That I am a person recognised by the *NSW Rural Fire Service* as a qualified consultant in bushfire risk assessment; and
- That subject to the recommendations contained in the Bushfire Risk Assessment Report the proposed development conforms specifications and requirements of the documents entitled *Planning for Bush Fire Protection* prepared by the NSW Rural Fire Service in co-operation with the Department of Planning and any other documents as prescribed by Part 4 Division 4.3 Section 4.14 of the *Environmental Planning and Assessment Act 1979 No 203*.

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*.

Signature:  Date: 3rd June 2020

