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Date of Issue: 4 March 2021

Bush Fire Assessment Report

in relation to the proposed dwelling at:



Lot 123 DP 32140

14-20 Mount Vernon Road Mount Vernonto be registered as Lot 1 DP 122135314 Mount Vernon Road Mount Vernon(subject site)

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Document Tracking

| Item | Detail |
|-----------------------|--|
| Project Name | Bush Fire Assessment Report, proposed dwelling |
| Project Address | Lot 1 DP 1221353, 14 Mount Vernon Road Mount Vernon |
| Client Name | ATJ Architects |
| Project Number | 21/0149 |
| Plan Reference | Plans by ATJ Architects numbered 2025 A01 and A02, issue |
| | A dated 21/01/2021 and Survey Plan for Lot 1 in |
| | Unregistered DP 1221353 (Plan of Subdivision of Lot 123 in |
| | DP 32140) by Chadwick Cheng numbered 40132 / D-MGA, |
| | Sheet 1, dated 12/01/2021 |
| Prepared by | Adrian Armitstead |
| Approved by | Catherine Gorrie |
| BAL under AS3959-2018 | BAL Low and the relevant additional construction |
| | requirements of PBP section 7.5 |

| Bushfire Consulting Services Pty Ltd Contact Details | | |
|--|-------------------|--|
| Catherine Gorrie | Managing Director | |
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Document Control

| Version | Primary Author | Description | Date Completed |
|---------|-------------------|-------------|----------------|
| 1 | Adrian Armitstead | Draft | 3/3/2021 |
| 2 | Catherine Gorrie | Final | 4/03/2021 |
| | | | |
| | | | |
| | | | |

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approval of the author.

Disclaimer

Any recommendation or advice expressed in this report is made in good faith and in accordance with

the relevant legislation for bushfire prone development in New South Wales. Bushfire Consulting

Services Pty Ltd has endeavoured to ensure that the information in this document is correct. However,

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Ltd responses to questions or any other information in this document be deemed to be incorporated

into any legally binding agreement without the express written consent of an officer of Bushfire

Consulting Services Pty Ltd.

It should be borne in mind that the measures recommended in this report cannot quarantee that a

building will survive a bushfire event on every occasion. This is due to the degree of vegetation

management, the unpredictable behaviour of bushfires and extreme weather conditions. As such, the

author is not liable to any person for any damage or loss whatsoever which has occurred or may occur

in relation to the person taking action or not taking action based on the recommendations of this

report.

NOTE: This bush fire assessment shall remain valid for 12 months from the date of issue.

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Executive Summary

Bushfire Consulting Services was commissioned by ATJ Architects to provide a bush fire

assessment for a dwelling at Lot 123 DP 32140 at 14-20 Mount Vernon Road which has been

approved for a 2 Stage Torrens Title Subdivision of 3 Lots by DA06/1626.03, issued by Penrith

City Council, dated 06/07/2017. The as yet unregistered lot is to be known as Lot 1 DP

1221353, 14 Mount Vernon Road Mount Vernon.

This report focuses on the proposed works within the unregistered Lot 1 DP 1221353 only.

The subject site is mapped as designated bush fire prone land by Penrith Council and the new

dwelling on proposed Lot 1 is located approximately 164 metres from bush fire prone

(hazardous) vegetation. The bush fire attack level (BAL) associated with the development of

the new dwelling has been assessed as BAL Low.

The proposal is a form of infill development and, as such, this report makes an assessment in

accordance with the aim, objectives, and performance criteria of Chapter 7 of the NSW RFS

document 'Planning for Bush Fire Protection' (PBP) (NSWRFS 2019). The BAL Low assessment

addresses the required bush fire protection measures, including:

establishment and maintenance of asset protection zones (APZs), where required

siting and design of the development, if applicable

construction requirements under AS3959-2018 (Standards Australia 2018), if

applicable

adequate access for emergency personnel, where required

adequate water supply, and utility requirements to reduce the risk of ignition by

electrical or gas supplies, if applicable

landscaping to reduce the risk of ignition by embers, and to minimise flame contact

and radiant heat on the proposed development, if applicable.

The report concludes that the proposal can comply with the aim, objectives and performance

criteria of PBP.

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Compliance Summary

| This Assessment has been Certified by: | |
|--|---------|
| Catherine Gorrie | |
| BPAD-Level 3 Accredited Practitioner | |
| FPAA Cert No: BPAD20751 | |
| What is the recommended level of compliance with | BAL Low |
| AS3959-2018? | |
| Can this proposal comply with AS 3959-2018? | Yes |
| Does this development comply with the aim and | Yes |
| objectives of PBP? | |
| Is referral to the NSW Rural Fire Service (RFS) | No |
| required? | |

List of Abbreviations

APZ Asset Protection Zone

AS3959 Australian Standard 3959 – 2018, Construction of Buildings in Bushfire

Prone Areas

BAL Bushfire Attack Level

BPAD Bushfire Planning and Design (Accreditation Scheme)

BPMs Bushfire Protection Measures

BPLM Bushfire Prone Land Map

Council Penrith Council

DA Development Application

DEM Digital Elevation Model

EP&A Act Environmental Planning and Assessment Act – 1979

FDI Fire Danger Index

FPAA Fire Protection Association of Australia

IPA Inner Protection Area

kW/m² Kilowatts per metre squared

LiDAR Light Detection and Ranging

LPMA Land & Property Management Authority

NCC National Construction Code

PBP Planning for Bush Fire Protection 2019

RF Act Rural Fires Act – 1997

RFS NSW Rural Fire Service

SEPP State Environmental Planning Policy

SIX Spatial Information Exchange

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1. Introduction

This report has been commissioned by ATJ Architects to provide a bush fire assessment for a

new dwelling at unregistered Lot 1 DP 1221353, 14 Mount Vernon Road Mount Vernon, a

result of a subdivision of land at Lot 123 DP 32140 at 14-20 Mount Vernon Road.

The subject property is "bushfire prone land" as per the local Council bushfire prone land map

as defined by section 10.3 (s10.3) of the Environmental Planning & Assessment Act (EP&A)

1979 and therefore the requirements stipulated by legislation apply to any new development

on the site.

Planning for Bush Fire Protection 2019 (Chapter 7) describes this type of development as "infill

development" and therefore the requirements of section 4.14 (s4.14) of the EP&A Act are

applicable.

The bush fire assessment is derived from the NSW EP&A Act, the Rural Fire Service document

Planning for Bush Fire Protection 2019 and Australian Standard 3959-2018 'Construction of

Buildings in Bushfire Prone Areas'.

2. Purpose of this Report

The purpose of this report is to provide the owners, the Consent Authority and the Certifier

with a description of the proposed development as well as the vegetation type, slope and any

other factors influencing the likely bushfire behaviour, sufficient to show that the

development will be protected from the likely bushfire threat as outlined in current

legislation.

This assessment includes an analysis of the hazard, threat and subsequent risk to the

development and demonstrates that the proposal satisfies the aim and objectives of Planning

for Bush Fire Protection.

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3. Location

The site is located and known as Lot 1 DP 1221353, 14 Mount Vernon Road Mount Vernon. The property is part of the Penrith local government area.

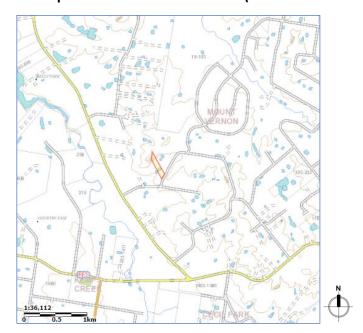


Figure 1. Location Map. Source: LPMA SIX Viewer (NSW Government 2020a)

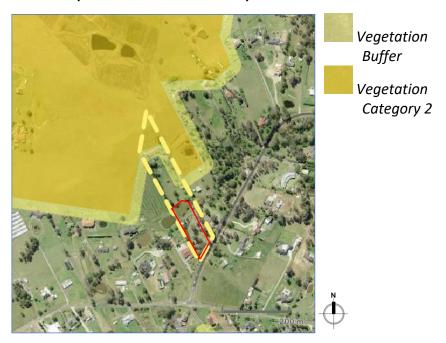
Parent lot location outlined in red



Figure 2. Aerial Map. Source: LPMA SIX Viewer (NSW Government 2020a)

Parent Lot 3 site location outlined in red

Figure 3. Bushfire Prone Land Map. Source: NSW Government Planning Portal (NSW Government 2020b)



Approximate site location (proposed Lot 1) outlined in red within the parent Lot outlined in yellow

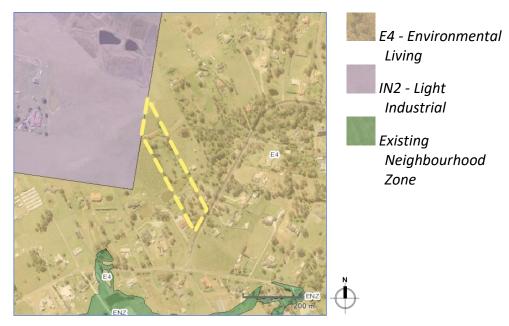
4. Property Description

The property is comprised of Lot 123 DP 32140 at 14-20 Mount Vernon Road, with a subdivision of land as yet unregistered resulting in proposed Lot 1 DP 1221353, 14 Mount Vernon Road Mount Vernon, covering approximately 9569m² in area (Figure 2). It is bounded by private allotments to the approximate northwest, northeast and southwest, and Mount Vernon Road to the approximate southeast. It currently contains a single occupancy development, comprising a single storey dwelling and two smaller sheds to be demolished, and a large detached metal shed at the rear to be retained.

4.1 Zoning

The land is zoned E4: Environmental Living under State Environmental Planning Policy (Western Sydney Aerotropolis) 2020. Adjacent lands to the northeast, southeast and southwest are similarly zoned. Adjacent lands to the northwest are zoned IN2 - Light Industrial (Figure 4).

Figure 4. Zoning Map. Source: NSW Government Planning Viewer (NSW Government 2020b)



Parent site location outlined in yellow

4.2 Biodiversity Values

A search of the NSW Office of Environment and Heritage's Biodiversity Values Map (NSW Government 2020c) has been carried out which indicates land with high biodiversity value, as defined by the *Biodiversity Conservation Regulation 2017*. It may be necessary to engage an accredited assessor to apply the Biodiversity Assessment Method (the BAM) to assess the impacts of the proposed development.

Figure 5: Biodiversity Values Map: NSW Office of Environment and Heritage



Site location outlined in yellow

4.3 The Proposal

The proposal is for a single storey dwelling, with lower level garage and storage, a porch and patio. In terms of the NCC, the classification of the building is Class 1a, 10a and 10b.

5. Site Assessment

Bushfire Consulting Services Pty Ltd attended the site on 23 February 2021. The assessment relates to the new development shown in the site plans (reference Appendix 1 below). The NSW Spatial Services mapping website has also been used as a reference (NSW Government 2020a), and 'Ocean Shores to Desert Dunes' by David Keith (Keith 2004), in determining the vegetation type.

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6. Bush Fire Attack Assessment

6.1 Determine Vegetation Formations

The hazardous vegetation formations for each aspect of the development within 140m of the asset have been identified according to Keith (2004). The bushfire threat emanates from grassland located to the northeast and northwest of the subject building at a distance greater than 140m from the proposal.

Within 140m of the site, lots contain existing large lot residential developments with curtilages comprising lawns, shrubs and occasional trees, which do not constitute a hazard.

Based on a determination of vegetation formation using the Keith 2004 Identification Key and a site visit, there is no classified vegetation in any direction for over 100m (Figure 5).

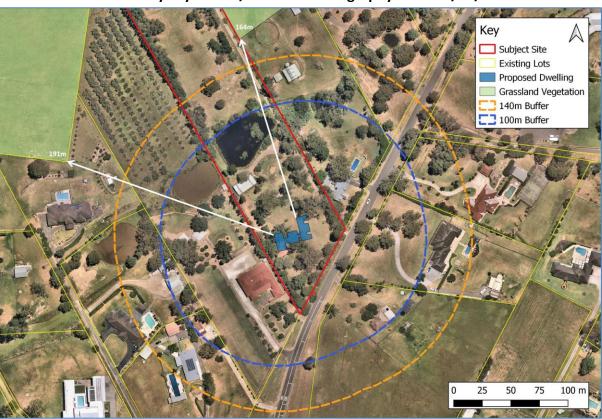


Figure 6. Hazardous vegetation affecting the subject building. Source: NearMap (2020) with overlays by BFCS P/L. Aerial Photography date: 27/12/2020

Subject site outlined in red. Vegetation was assessed to a distance of 140m from the subject building

6.2 The effective slope

The slope of the land under any classified vegetation has a direct influence on the rate of fire

spread, the intensity of the fire and the level of radiant heat flux. The effective slope of the

land from the new building for a distance of 100m is derived from a site assessment combined

with the most detailed contour data available.

In this instance, the slope is of no consequence as there is no classified vegetation within

100m of the lot.

6.3 Fire Weather

The development is located in the Penrith Council area, a part of the Greater Sydney Region,

which has a Fire Danger Index of 100.

6.4 Determination of APZs

An Asset Protection Zone (APZ) is a fuel-reduced area surrounding a built asset or structure.

An APZ provides a buffer zone between a bush fire hazard and an asset and an area of reduced

bush fire fuel that allows suppression of fire. It also provides an area from which backburning

or hazard reduction can be conducted, and allows emergency services access as well as

providing a relatively safe area for firefighters and home owners to defend their property.

The APZ can include roads or properties managed to be consistent with APZ standards as

permitted by PBP 3.2, set out in Appendix 4 and the NSW RFS document Standards for Asset

Protection Zones. In this instance, it is identified that roads and properties that comprise

managed curtilages exist for at least 100m in all directions. Therefore it is not necessary to

stipulate a minimum APZ.

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6.5 Identify Construction Requirements

The appropriate construction requirements for the development are determined by matching the relevant FFDI, vegetation type, the distance measured from the edge of the unmanaged vegetation to the closest external wall to identify the BAL using the relevant tables from PBP.

In this instance, as there is no classified vegetation within 100m of the lot, the determination of the bushfire attack level is BAL Low. AS3959-2018 does not provide construction requirements for buildings assessed as being BAL Low.

PBP Table A1.12.5 Determination of BAL, FFDI 100 – residential developments

| Aspect | Distance | Vegetation | Effective Slope Under | Bushfire Attack |
|-----------|----------|----------------|-----------------------|-----------------|
| | from | Classification | Classified Vegetation | Level (BAL) |
| | hazard | | | required |
| Northeast | >100m | N/A | N/A | BAL LOW |
| Southeast | >100m | N/A | N/A | BAL LOW |
| Southwest | >100m | N/A | N/A | BAL LOW |
| Northwest | >100m | N/A | N/A | BAL LOW |

The assessment indicates that the proposed development has a Bushfire Attack Level of BAL-LOW under PBP 2019. AS3959-2018 states the following with respect to construction of building classified as BAL-LOW:

"Minimal attack from radiant heat and flame due to the distance of the building from the vegetation, although some attack by burning debris is possible. There is insufficient threat to warrant specific construction requirements."

7. Bush Fire Protection Measures

The BPMs for residential infill development include provisions relating to APZs, access, water supply, electricity and gas services, construction standards, landscaping and emergency evacuation. In order to create appropriate separation between a dwelling and the bush fire hazard, APZs commensurate with those specified for new subdivision must be provided.

7.1 Asset Protection Zones

PBP Table 7.4a Performance criteria and acceptable solutions for residential infill development

| Performance Criteria | Acceptable Solutions/Comment |
|------------------------------|--|
| APZs are provided | Achieved as there is no classified vegetation within 100m of the |
| commensurate with | site |
| the construction of the | |
| building | |
| A defendable space is | Achieved as adequate defendable space is available to the front |
| provided | of the subject building and pedestrian firefighter access is |
| | available to the rear |
| APZs are managed and | N/A as there is no classified vegetation within 100m of the |
| maintained to prevent | development |
| the spread of a fire to | |
| the building | |
| The APZ is provided in | N/A as there is no classified vegetation within 100m of the |
| perpetuity | development |
| APZ maintenance is | N/A as there is no classified vegetation within 100m of the |
| practical, soil stability is | development |
| not compromised and | |
| the potential for crown | |
| fires is minimised | |

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7.2 Access

N/A as there is no classified vegetation within 100m of the development.

7.3 Water Supplies

N/A as there is no classified vegetation within 100m of the development.

7.4 Electricity Services

N/A as there is no classified vegetation within 100m of the development.

7.5 Gas Services

N/A as there is no classified vegetation within 100m of the development.

7.6 Construction Standards

| Performance Criteria | Acceptable Solutions/Comment |
|---------------------------|---|
| The proposed building | BAL Low has been determined in accordance with PBP Table |
| can withstand bush fire | A1.12.5. |
| attack in the form of | |
| embers, radiant heat and | |
| flame contact | |
| Proposed fences and | N/A as there is no classified vegetation within 100m of the |
| gates are designed to | development |
| minimise the spread of | |
| bush fire | |
| Proposed Class 10a | N/A as there is no classified vegetation within 100m of the |
| buildings are designed to | development |
| minimise the spread of | |
| bush fire | |

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7.7 Landscaping

N/A as there is no classified vegetation within 100m of the development.

8. Likely Impact of any BPMs

The proposed bushfire protection measures will not adversely impact on the environment. It

should be noted that this report has not focused on environmental issues and as such they

may require further specialist investigation.

9. Recommendations

The bushfire threat has been assessed as BAL Low, based on the Low Threat Vegetation -

Exclusions of PBP A1.10, which applies the exclusions set out in AS3959. AS3959 does not

provide construction requirements for buildings assessed in bushfire prone areas as being

BAL Low according to AS3959-2018 clause 2.2.3.2 (a), where there is no classified vegetation

within 100m of the site. The assessment has been carried out in accordance with the Site

Assessment Methodology of PBP Appendix 1.

The Bushfire Attack Level BAL Low is based on insufficient risk to warrant specific bushfire

construction requirements. It is predicated on low threat vegetation and non-vegetated

areas. Therefore this report makes no specific recommendations.

10. Summary

This report consists of a bush fire assessment for the proposed residential development of a

dwelling at Lot 1 DP 1221353, 14 Mount Vernon Road Mount Vernon. The report concludes

that the proposed development is on designated bushfire prone land and the legislative

requirements for development in bushfire prone areas are applicable.

This report has considered all the elements of bushfire attack and finds that the development

has a Bushfire Attack Level of BAL Low. The development satisfies the Objectives and

Performance requirements of 'Planning for Bush Fire Protection' 2019.

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Notwithstanding the precautions adopted, it should always be remembered that bushfires burn under a wide range of conditions and 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.

This report is a bush fire assessment that provides the required information to assist local Council in determining compliance in accordance with Planning for Bush Fire Protection and AS3959-2018. The local Council is the final consenting authority and the construction of the building must comply with the recommendations included in the Council's conditions of consent.

Myouis

Catherine Gorrie

(a person who is recognised by the NSW Rural Fire Service as a suitably qualified consultant in bush fire risk assessment)

Accredited Bushfire Planning and Design Practitioner

Fire Protection Association Australia BPAD-Level 3 (BPAD 20751)

Grad Dip Bushfire Protection (UWS 2010)

Diploma Environmental Health & Building Surveying (TAFE 2005)

Corporate Bronze Member Fire Protection Association Australia

Bushfire Consulting Services Pty Ltd

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nning & Design redited Practitioner 11. References

Keith D 2004, Ocean Shores to Desert Dunes, the Native Vegetation of NSW and the ACT,

Department of Environment and Conservation, Sydney

NearMap 2020, NearMap Photomap Aerial Imagery, NearMap Australia, Barrangaroo, NSW

NSW Government 2020a, NSW Spatial Services, NSW Department of Finance, Services and

Innovation.

NSW Government 2020b, NSW Planning Portal, NSW Department of Planning and

Environment.

NSW Government 2020c, Biodiversity Values Map, NSW Department of Environment and

Heritage.

NSW RFS 2019, Planning for Bush Fire Protection, NSW Rural Fire Service, Sydney.

Standards Australia 2018, Australian Standard AS 3959-2018 'Construction of Buildings in

Bushfire Prone Areas', SAI Global, Australia.

12. Legislation

Environmental Planning & Assessment Act 1979

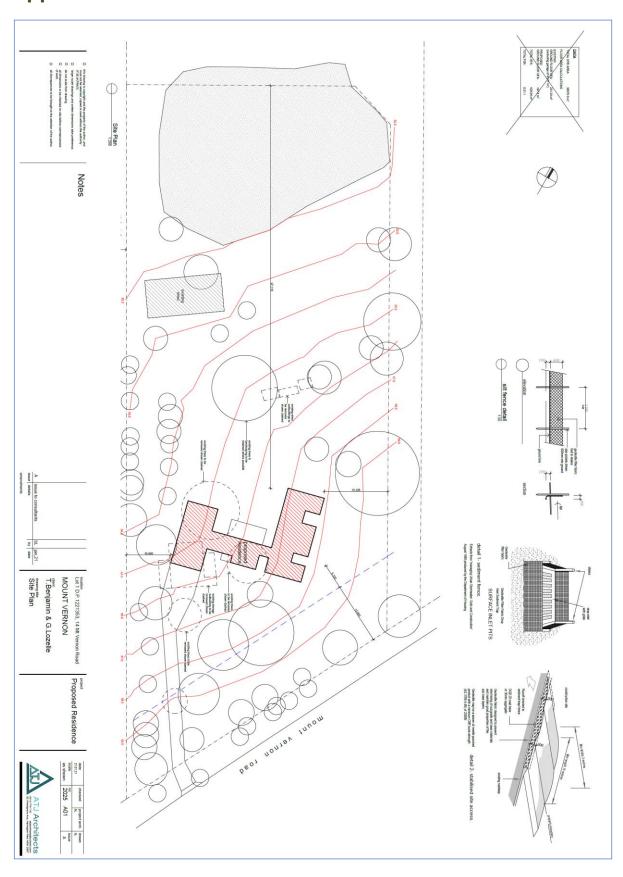
Rural Fires Act 1997

Rural Fires Regulation 2013

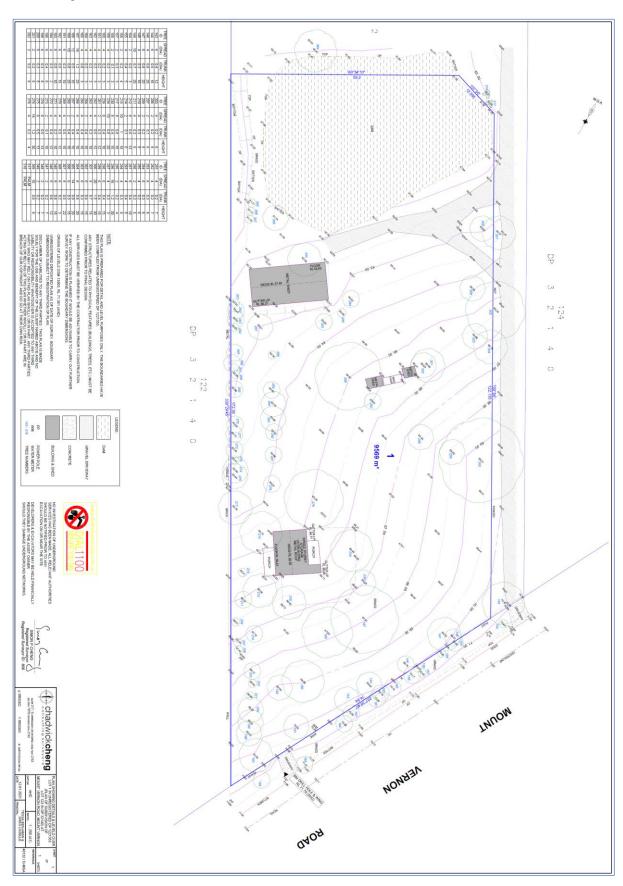
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Appendix 1 - Site Plan



Survey Plan



Appendix 2 – Photos of Site and Surrounds

Source: BFCS P/L 23/02/2021



View of the front elevation of the existing dwelling to be removed and location of the proposed dwelling



View of the east elevation of the existing dwelling and trees to be removed



View of the rear elevation of the existing dwelling and trees to be removed



View to the northwest of the existing detached sheds and bird cage to be removed



View to the northwest of the existing detached shed to be retained

Appendix 3 – Bushfire Risk Assessment Certificate

This form is completed by a recognized consultant in bushfire risk assessment in accordance with section s4.14 of the *Environmental Planning and Assessment Act 1979 No 203*

| PROPERTY ADDRESS: | Lot 1 DP 1221353 |
|-------------------------------------|---|
| | 14 Mount Vernon Road Mount Vernon |
| DESCRIPTION OF PROPOSAL: | New dwelling |
| | Plans by ATJ Architects numbered 2025 A01 and |
| | A02, issue A dated 21/01/2021 and Survey Plan for |
| PLAN REFERENCE: | Lot 1 in Unregistered DP 1221353 (Plan of |
| (relied upon in report preparation) | Subdivision of Lot 123 in DP 32140) by Chadwick |
| | Cheng numbered 40132 / D-MGA, Sheet 1, dated |
| | 12/01/2021 |
| | BAL Low |
| BAL RATING | (If the BAL rating is FZ the application is to be referred to NSW |
| | RFS for assessment.) |
| DOES THE PROPOSAL RELY ON | YES (Circle the relevant response) |
| ALTERNATE SOLUTIONS: | (If YES the application is to be referred to NSW RFS for |
| | assessment.) |

I, Catherine Gorrie, of Bushfire Consulting Services Pty Ltd, have carried out a bushfire risk assessment on the above mentioned proposal and property. A detailed Bushfire Assessment Report is attached which includes the submission requirements set out in Appendix 2 of *Planning for Bushfire Protection 2019* together with recommendations as to how the relevant specifications and requirements are to be achieved.

| REPORT REFERENCE: | 21/0149 |
|-----------------------------|--------------------------------------|
| REPORT DATE: | 4/03/2021 |
| CERTIFICATION NO/ACCREDITED | BPAD-Level 3 Accredited Practitioner |
| SCHEME: | FPAA Cert No: BPAD20751 |

Note: this certificate must be completed and signed by a person recognised by the NSW Rural Fire Service as a qualified consultant in bush fire risk assessment in accordance with s4.14 of the EP&A Act 1979 No 203.

I hereby certify, in accordance with 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 attached Bushfire Risk Assessment

Report the proposed 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

Section s4.14 of the Environmental Planning and Assessment Act 1979 No 203.

I am aware that the bush fire 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 Bush Fire Protection 2019*.

Attachments:

Bush Fire Risk Assessment Certificate

Recommendations

Statement of vegetation impact in relation to APZ

SIGNATURE:

DATE: 4/03/2021

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