

Proposed three (3) into four (4) lot subdivision and boundary adjustment

Lot 3 DP 1203365, Lot 2 DP 1202319 & Lot 11 DP 1180243

330, 64, 694 & 696 Glenroy Road, Good Hope

REF: W25014

Date: 19 May 2025





Bush Fire Assessment Report

Proposed three (3) into four (4) lot subdivision and boundary adjustment

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330, 64, 694 & 696 Glenroy Road, Good Hope

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EXECUTIVE SUMMARY

This bush fire assessment report has been undertaken for the proposed boundary adjustment and three (3) into four (4) lot subdivision at 330, 64, 694, and 696 Glenroy Road, Good Hope.

The proposal will result in the creation of

- Lot 100. This lot supports an existing dwelling with access provided via an existing right of way (ROW)
- Lot 101. This new allotment is provided with an indicative dwelling footprint within 70m of Glenroy Road
- Lot 102. This lots supports an existing dwelling with access extending directly from Glenroy Road.
- Lot 103. This lot supports two existing dwellings with access extending from Good Hope Road.

The Yass Valley Council identifies the development as bush fire prone which triggers a formal assessment with respect to the NSW Rural Fire Service (RFS) guideline *Planning* for Bush Fire Protection (PBP) 2019.

A bush fire safety authority (BSA) is required from the NSW Rural Fire Service (RFS) for subdivisions on bush fire prone land under 100b of the *Rural Fires Act* 1997.

The proposed residential subdivision must provide minimum building setbacks between the vegetation and the proposed future dwelling to ensure that future building envelopes are not exposed to a radiant heat flux exceeding 29kW/m².

Section 5.1.3 of PBP states that while all new dwellings within a subdivision must comply with PBP, there may be existing dwellings located on the land that would benefit from bush fire protection measures. Conditions may therefore be applied to the subdivision consent requiring the existing structure to be upgraded to provide ember protection and water supplies for fire fighting.

This assessment has found that bush fire can potentially affect the proposed and existing dwellings from the surrounding grassland vegetation. As depicted in Figure 2.1 all lots can provide adequate APZs (equivalent to or less than BAL 29).

Waratah Bushfire Planning proposes the following combination of bush fire measures to address Section 5.3.1 and the aims and objectives of PBP;

- Provision of asset protection zones (APZs) around all existing habitable buildings to achieve BAL Low where achievable (to avoid the requirement for ember upgrades). This is considered adequate based on the surrounding grazed/managed land, which in most cases exceeds 100m.
- Upgrading the dwelling within Lot 102 for ember protection and providing a minimum 25-32m APZ.
- Provision of any new water static supplies following the acceptable solutions outlined in PBP 2019 (as appropriate).

GLOSSARY

AHIMS	Aboriginal Heritage Information System	
APZ	Asset Protection Zone	
AS1596	Australian Standard – The storage and handling of LP Gas	
AS2419	Australian Standard – Fire hydrant installations	
AS3745	Australian Standard – Planning for emergencies in facilities	
AS3959	Australian Standard – Construction of buildings in bushfire-prone areas 2018	
BAL	Bush fire attack level	
ВСА	Building Code of Australia	
BSA	Bush Fire Safety Authority	
DA	Development application	
DFS	Dry Sclerophyll Forest	
EEC	Endangered ecological community	
EP&A Act	Environmental Planning & Assessment Act 1979	
EP&A	Environmental Planning and Assessment Regulation 2000	
Regulation		
FFDI	Forest fire danger index	
IPA	Inner protection area	
LEP	Local Environmental Plan	
LGA	Local government area	
m	metres	
NCC	National Construction Code	
ΟΡΑ	Outer protection area	
PBP 2019	Planning for Bush Fire Protection 2019	
RF Act	Rural Fires Act 1997	
RFS	NSW Rural Fire Service	

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1. INTRODUCTION

Waratah Bushfire Planning has been commissioned by Geomatic & Property Services Australia Pty Ltd to undertake a bush fire assessment report for the proposed subdivision at 330, 64, 694, and 696 Glenroy Road, Good Hope.

The proposed development is identified as bush fire prone on the Yass Valley Council bush fire prone land map (refer Figure 1.5). This triggers a formal assessment in respect of the NSW Rural Fire Service (RFS) policy against the provisions of *Planning for Bush Fire Protection (PBP) 2019*.

Proposed development type for the purposes of PBP	Subdivision & boundary adjustment	
Existing land use and approvals	696 Good Hope Road - dwelling approved via DA 190058.	
Is the development considered integrated for the purposes of Section 100B of the Rural Fires Act 1997?	the issue of a bush fire safety authority (BSA)	
Zoning under the Yass Valley Local Environmental Plan 2022	RU1 – Primary production	
Significant environmental features	Wedgetail Project Consulting has undertaken an ecological assessment, which concluded that the proposed development does not impact areas mapped on the NSW Biodiversity Values Map and does not exceed the Native Vegetation Clearing Threshold. The proposal will have minimal impact on ecological values.	
Details of any Aboriginal heritage or cultural constraints	A basic AHIMS web service search shows that there are no Aboriginal sites recorded in or within 50m of the properties.	

1.1 Legislation and planning instruments

1.2 Aims of the assessment

The aims of the bush fire assessment report are to:

• undertake a site bush fire attack assessment in accordance with PBP.

- provide advice on bush fire protection measures, including the provision of asset protection zones (APZs), landscaping, building construction standards, access design, water supply and utilities.
- review the potential to provide for ongoing management and maintenance of bush fire protection measures.

1.3 Proposal

The proposal involves a boundary adjustment and a three (3) into four (4) lot subdivision at 330, 64, 694, and 696 Glenroy Road, Good Hope.

The proposal will result in the creation of the following:

- Existing Lot 2 (No. 64 Glenroy Road) supports an existing dwelling and has a size of 136.9 m². This lot is identified as proposed Lot 102.
- Existing Lot 11 (Nos. 694 and 696 Good Hope Road) will be 129.4 hectares in size. This lot is identified as proposed Lot 103 and supports two existing dwellings.
- Lot 3 (No. 330 Glenroy Road) supports an existing dwelling and will be 126.1 hectares in size. This lot is identified as proposed Lot 100.
- Creation of proposed Lot 101 with an overall size of 206ha. A proposed building envelope has been identified within the lot, and the construction of a dwelling is subject to a future or further Development Application (DA) submission.

No new dwellings or services are proposed, and each lot will maintain the existing dwellings and driveway access.

The Figures in Section 2 show the proposed boundary adjustment, existing dwellings, proposed building envelope and recommended bush fire protection measures to satisfy the aims and objectives of PBP.



Figure 1-1 – Proposed subdivision (Lot 100)



Figure 1-2 – Proposed subdivision (Lot 101)



Figure 1-3 – Proposed subdivision (Lot 102)



Figure 1-4 – Proposed subdivision (Lot 103)





1.4 Referenced documents & information collation

Documents reviewed for the preparation of this report include the following:

- Subdivision plan prepared by Geomatic & Property Services, Reference: 241001.
- Ecological Assessment prepared by Wedgetail Project Consulting, 14 May 2025
- Vegetation mapping by Department of Planning and Environment (STVM_NSW_1750_PCT).
- Google aerial photography.
- Australian Standard 3959 Construction of buildings in bushfire-prone areas (2018).
- Planning for Bush Fire Protection 2019 (PBP).

An inspection of the proposed development site and surrounds was undertaken by Nicole van Dorst to assess the bush fire risk and adjoining land use.

1.5 Site description

The site is located at 330, 64, 694, and 696 Glenroy Road, Good Hope, within the Yass Valley Local Government Area (refer to Figure 1-7).

The existing dwellings within proposed Lot 103 (no. 694 & 696) are accessed via Good Hope Road to the south. The remaining dwellings (and proposed Lot 101) are accessed via Glenroy Road.

The entire site is mapped as vegetation category 3 (grassland).

FIGURE 1.7 – AERIAL APPRAISAL (MAP 1)





2. BUSH FIRE THREAT ASSESSMENT

To determine the required width of an APZ for development, an assessment of the potential hazardous vegetation and the effective slope within the vegetation is required.

2.1 Predominate vegetation

PBP requires the identification of the predominant vegetation formation in accordance with David Keith (2004) if using the simplified acceptable solutions in PBP 2019

The hazardous vegetation is calculated for a distance of at least 140m from a proposed building envelope. The vegetation posing a bush fire threat to the existing dwellings and proposed building footprint has been identified as predominately grassland, remnant forest or woodland.

2.2 Effective slope

The effective slope has been assessed for up to 100m from the development site and is described in detail in Table 2-1 below.

2.3 Bush fire attack assessment

The following assessment has determined the APZ and BAL levels via the following methodology;

• Table A1.12.2 & A1.12.5 of PBP 2019.

A fire danger index (FDI) of 100 has been used to calculate bush fire behaviour on the site based on its location within the Southern Ranges region.

Minimum Vegetation APZ & BAL Aspect Effective Slope APZ Formation recommended required Existing dwelling at 330 Glenroy Road (Lot 100) – Refer to Figure 2.1 (Map 1) 10-150 50m APZ North & east Grassland 15m downslope (BAL Low - no ember upgrades 5-10[°] downslope 13m South & west Grassland required) New Lot 101 – Refer to Figure 2.1 (Map 2) 10-150 Grassland & Southwest 23m remnant forest downslope Minimum APZs Northwest & recommended Grassland 5-10[°] downslope 13m southeast to support BAL 29 Level and Northeast Grassland 10m upslope Existing dwelling at 64 Glenroy Road (Lot 102) – Refer to Figure 2.1 (Map 3) 25-32m APZ Upgrade the North & east Woodland 0-5^o downslope 16m building for ember protection N/A South & west | Managed land N/A Existing dwelling at 694 Good Hope Road (Lot 103) – Refer to Figure 2.1 (Map 4) North Grassland 5-10[°] downslope 13m 50m APZ (BAL Low – no South, east Managed land N/A N/A ember upgrades and west required) Existing dwelling at 696 Good Hope Road (Lot 103) was approved via DA190058 - Refer to Figure 2.1 (Map 4) 50m (BAL Low no ember upgrades North, south, required). Noting east and Grassland 0-5^o downslope 12m that the dwelling west has been recently approved and constructed.

Table 2-1 – Bush fire attack assessment









LEGEND



Proposed building envelope Indicative dwelling footprint - -Asset protection zone Bush fire Attack Level (BAL) BAL 29 Existing environment Local road Topographic contour (1 m)

Topographic contour (10 m) Watercourse/drainage line Waterbody Slope buffer (100 m) Vegetation buffer (140 m) Bush fire land category/vegetation class Grassland Remnant forest



64 & 330 Glenroy Road, & 694 & 696 Good Hope Road, Good Hope WARATAH BUSHFIRE (Lot 2 DP1202319, Lot 3 DP1203365, Lot 11 DP1180243) 20/05/2025 (v2)

1:3,750 @A4

GDA2020 MGA Zone 55

FIGURE 2.1 - BUSH FIRE ASSESSMENT AND MITIGATION MEASURES (MAP 3)

LOT 102



SSET PROTECTION ZONE (APZ) & BUSH FIRE ATTACK LEVEL (BAL

568



32 m

LASTIC TAN

25 m



3. BUSH FIRE PROTECTION MEASURES

3.1 Asset protection zones (APZs)

Table 3.1 outlines the proposal's compliance with the performance criteria for APZs.

Performance criteria	Acceptable solutions	Compliance with acceptable solutions	Comment
Potential building footprints will not be exposed to radiant heat levels exceeding 29kW/m ² on each proposed lot	APZs are provided in accordance with Tables A1.12.2 and A1.12.4 based on the FFDI	Ŋ	Each of the lots is capable of providing building footprints which will not exceed a radiant heat level of >29kW/m ² .
APZs are managed and maintained to prevent the spread of a fire towards the building	APZs are managed in accordance with the requirements of Appendix 4	Ŋ	APZ's have been identified to show that each lot is capable of supporting 29kW/m ² or less. The 50m APZ for the dwelling in Lot 103 extends into Lot 102 in the north. The landowner
The APZ is provided in perpetuity	APZs are wholly within the boundaries of the development site	V	has agreed to the APZ. Ongoing management will be assured via an 88b easement.
APZ maintenance is practical, soil stability is not compromised and the potential for crown fires is minimised	The APZ is located on lands with a slope of less than 18°	Ŋ	Complies. All slopes are less than 18 degrees.

Table 3-1 – Performance criteria for asset protection zones (PBP 2019)

Performance criteria	Acceptable solutions	Compliance with acceptable solutions	Comment
Landscaping is designed and managed to	Landscaping is in accordance with Appendix 4	Ŋ	Complies
minimise flame contact and radiant heat to buildings, and the potential for wind- driven embers to cause ignitions	Fencing is constructed in accordance with section 7.6		N/A. Any new fences will be well over 6m from any existing dwelling.

Note 1: All fences in bush fire prone areas should be made of either hardwood or non-combustible material. In circumstances where a fence is within 6m of a building or in areas of BAL 29 or greater, they should be made of non-combustible material only.

3.2 Building construction

No new buildings are proposed with BAL Low achievable for the;

- Existing dwelling at 330 Glenroy Road (Lot 100): and the
- Existing dwellings at 696 Good Hope Road (Lot 103), one of which was approved via DA190058

This report proposes that these buildings are not required to be upgraded for ember protection based on the surrounding grazed/managed land, which in most cases exceeds 100m.

Section 5.1.3 of PBP states that while all new dwellings within a subdivision must comply with PBP, there may be existing dwellings located on the land that would benefit from bush fire protection measures. Conditions may therefore be applied to the subdivision consent requiring the existing structure to be upgraded to provide ember protection.

It is recommended that the existing dwelling within 64 Glenroy Road (Lot 102) are upgraded for ember protection 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 subfloor areas, openable windows, vents, weep holes and eaves. External doors are to be fitted with draft excluders.

3.3 Access for firefighting operations

There are no proposed changes to the existing approved private access driveways. The proposed subdivision will not impact the existing situation, and all buildings are provided with private access to the existing public road network capable of supporting fire-fighting appliances. No additional requirements are necessary.

3.4 Water, gas and electricity supply

The properties have access to an existing static water supply only. There are no proposed changes to the existing gas and electricity supply.

The intent of measures for water supplies is to provide adequate water services for the protection of buildings during and after the passage of bushfire.

All dwellings have access to an existing static water supply. As per Table 5.3c of PBP, static water supplies shall comply with Table 5.3d of PBP as follows:

- a minimum 20,000L per lot.
- All above-ground water service pipes are metal, including and up to any taps and
- Above -ground water storage tanks shall be of concrete or metal.

4. CONCLUSION & RECOMMENDATIONS

4.1 Conclusion

This bush fire assessment report has been undertaken for the proposed boundary adjustment and three (3) into four (4) lot subdivision at 330, 64, 694, and 696 Glenroy Road, Good Hope.

This assessment has found that bush fire can potentially affect the existing dwellings from the surrounding grassland, woodland and remnant vegetation.

The following recommendations are provided to ensure that the development is in accordance with the requirements of *PBP*.

4.2 Recommendations

The following recommendations are based on following documents/plans supplied by the client.

• Subdivision plan prepared by Geomatic & Property Services, Reference: 241001.

Recommendation 1 - At the issue of a subdivision certificate and in perpetuity, the property around the existing dwellings within Lots 100, 102 & 103 must be maintained as an asset protection zone as depicted in Figure 2.1 in accordance with the following requirements of Appendix 4 of *Planning for Bush Fire Protection 2019*:

- 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 2 m above the ground;
- tree canopies should be separated by 2 to 5 m;
- preference should be given to smooth-barked and evergreen trees;
- large discontinuities or gaps in the shrubs layer should be provided 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); and
- leaves and vegetation debris should be removed regularly.

Recommendation 2 - At the issue of a subdivision certificate, and in perpetuity to ensure ongoing protection from the impact of bush fires, a suitable mechanism, such as an instrument pursuant to section 88 of the *Conveyancing Act 1919*, must be in place over Lot 102 (for the benefit of Lot 103) to ensure its ongoing management of the 50m inner protection area as depicted in Figure 2.1 in accordance with Appendix 4 of *Planning for Bush Fire Protection 2019*.

Recommendation 3 – New landscaping within the required asset protection zone must comply with Appendix 4 of Planning for Bush Fire Protection 2019. In this regard, the following principles are to be incorporated:

- A minimum 1 metre wide area (or to the property boundary where the setbacks are less than 1 metre), suitable for pedestrian traffic, must be provided around the immediate curtilage of the building;
- Planting is limited in the immediate vicinity of the building;
- Planting does not provide a continuous canopy to the building (i.e. trees or shrubs are isolated or located in small clusters);
- Landscape species are chosen to ensure tree canopy cover is less than 15% (IPA);
- Avoid species with rough fibrous bark, or which retain/shed bark in long strips or retain dead material in their canopies;
- Use smooth bark species of trees species which generally do not carry a fire up the bark into the crown;
- Avoid planting of deciduous species that may increase fuel at surface/ ground level (i.e. leaf litter);
- Avoid climbing species to walls and pergolas:

- Locate combustible materials such as woodchips/mulch, flammable fuel stores away from the building;
- Locate combustible structures such as garden sheds, pergolas and materials such as timber garden furniture away from the building; and
- Low flammability vegetation species are used.

Recommendation 4 - The existing dwelling within Lot 102 (located within 100m of woodland) is to be upgraded for ember protection 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 subfloor areas, openable windows, vents, weep holes and eaves. External doors are to be fitted with draft excluders.

Recommendation 5 - The provision of new water, electricity and gas must comply with Table 5.3c of *Planning for Bush Fire Protection 2019*.

5. REFERENCES

- Councils of Standards Australia AS3959 (2018) Australian Standard Construction of buildings in bush fire-prone areas.
- Keith, David (2004) Ocean Shores to Desert Dunes The Native Vegetation of New South Wales and the ACT. The Department of Environment and Climate Change.
- Rural Fire Service (2019) Planning for Bush Fire Protection a guide for councils, planners, fire authorities and developers. NSW Rural Fire Service.
- Tan, B., Midgley, S., Douglas, G. and Short (2004) A methodology for assessing bushfire attack. RFS Development Control Service