



## Bushfire Protection Assessment

Proposed 280 lot subdivision

Stages 11 and 12 Boundary Road, Box Hill

12 April 2018



## DOCUMENT TRACKING

Item	Detail
Project Name	Bushfire Protection Assessment, Proposed Subdivision – Stages 11 and 12 Boundary Road, Box Hill
Project Number	18HNG_9976
Client Name	Jundu P/L & Mogul Stud P/L
Project Manager	Natalie South 1/51 Owen Street, Huskisson NSW 2540 Phone: 02 4443 5555
Prepared by	Natalie South
Reviewed by	Bruce Horkings
Approved by	Bruce Horkings FPAA BPAD L3 Certified Practitioner No. BPAD29963-L3
Status	Final
Version Number	2
Last saved on	12 April 2018

This report should be cited as 'Eco Logical Australia April 2018. Bushfire Protection Assessment, Proposed Subdivision - Stages 11 and 12 – Boundary Road, Box Hill.

---

### Disclaimer

*This document may only be used for the purpose for which it was commissioned and in accordance with the contract between Eco Logical Australia Pty Ltd and Jundu P/L & Mogul Stud P/L. The scope of services was defined in consultation with Jundu P/L & Mogul Stud P/L, by time and budgetary constraints imposed by the client, and the availability of reports and other data on the subject area. Changes to available information, legislation and schedules are made on an ongoing basis and readers should obtain up to date information.*

*Eco Logical Australia Pty Ltd accepts no liability or responsibility whatsoever for or in respect of any use of or reliance upon this report and its supporting material by any third party. Information provided is not intended to be a substitute for site specific assessment or legal advice in relation to any matter. Unauthorised use of this report in any form is prohibited.*

Template 01/07/13

# Contents

<b>1</b>	<b>Property and proposal .....</b>	<b>1</b>
1.1	Description of proposal .....	1
1.2	Assessment process .....	2
<b>2</b>	<b>Bushfire threat assessment .....</b>	<b>5</b>
<b>3</b>	<b>Bushfire protection measures.....</b>	<b>7</b>
3.1	Asset Protection Zones (APZ) .....	7
3.2	APZ maintenance plan .....	7
3.3	Construction standard .....	9
3.4	Access .....	9
3.5	Services – Water, electricity and gas .....	10
3.5.1	Water .....	10
3.5.2	Electricity services .....	10
3.5.3	Gas services .....	10
<b>4</b>	<b>Assessment of environmental issues .....</b>	<b>11</b>
<b>5</b>	<b>Conclusion .....</b>	<b>12</b>
<b>6</b>	<b>Recommendations .....</b>	<b>13</b>
<b>7</b>	<b>References .....</b>	<b>14</b>
	<b>Appendix A – Assessment process .....</b>	<b>15</b>
	<b>Appendix B – Access specifications .....</b>	<b>16</b>

## List of figures

Figure 1: Box Hill Precinct – Indicative Layout Plan.....	3
Figure 2: Stages 11 and 12 Subdivision Layout.....	4
Figure 3: Bushfire hazard assessment.....	6

## List of tables

Table 1: Subject site summary .....	1
Table 2: Approval Status of Application .....	1
Table 3: Summary of bushfire protection measures assessed .....	2
Table 4: Bushfire hazard assessment and APZ requirements.....	8
Table 5: Performance criteria for reticulated water supplies (PBP page 27) .....	10
Table 6: Summary of bushfire protection measures assessed .....	12
Table 7: Performance criteria for proposed public roads (PBP page 21) .....	16

# 1 Property and proposal

**Table 1: Subject site summary**

<b>Street address or property name:</b>	Boundary Road		
<b>Suburb, town or locality:</b>	Box Hill	<b>Postcode:</b>	2765
<b>Lot/DP no:</b>	Lot 14A, 29A and 33A DP 39159		
<b>Local Government Area:</b>	The Hills Shire		
<b>Zoning:</b>	R2 – Low Density residential, RE1 – Public Recreation and SP3 – Infrastructure		
<b>Type of development:</b>	Residential subdivision		

## 1.1 Description of proposal

The proposal is for subdivision of 3 partial lots into 280 lots (See **Figure 2**).

The subject land (Stages 11 and 12) is located within the north-western Sydney suburb of Box Hill, within The Hills Local Government Area. It is situated to the east of Boundary Road and south of Old Pitt Town Road Box Hill, within the Box Hill Precinct of the North-West Priority Growth Area as shown **Figure 1**.

This application proposes nine (9) stages and it is anticipated that the staging sequence may alter depending upon servicing and developments on adjoining properties.

The proposed stages facing internally (south) towards the subdivision proposed for Stage 7 of The Hills of Carmel are anticipated to be released first. It is expected that the delivery of these stages will occur with lots in Stage 12 preceding Stage 11, in the order of 12A, 12B, 11A, 11B and 11E.

The proposed stages facing hazards in currently undeveloped lands are to be deferred until such time the adjoining developments are developed. It is noted that there are currently three applications before Council that adjoin the subject site to the north including:

- DA 287/2018/ZB at 141 Boundary Road, 106-112 Old Pitt Town Road for a subdivision creating 143 residential lots including new road and demolition over two stages
- DA 1530/2018/ZB at 114-116 Old Pitt Town Road for a subdivision creating 78 residential lots including new road and demolition over two stages
- DA 119/2018/ZB at 126 Old Pitt Town Road for a subdivision creating 34 residential lots (including seven small lots) and three residue lots including new road and demolition over two stages.

This bushfire protection assessment is for development approval and conditional approval of sub stages listed below, based upon future development of surrounding land as summarised below in **Table 2**.

**Table 2: Approval Status of Application**

Sub Stage	Approval Status
Stage 11A	Development Approval
Stage 11B	Development Approval
Stage 11C	Deferred approval

Sub Stage	Approval Status
Stage 11D	Deferred approval
Stage 11E	Development Approval
Stage 12A	Development Approval
Stage 12B	Development Approval
Stage 12C	Deferred approval
Stage 12D	Deferred approval

## 1.2 Assessment process

The proposal was assessed in accord with Section 100B of the *Rural Fires Act 1997* and 'Planning for Bush Fire Protection 2006' (RFS 2006), herein referred to as PBP (See **Appendix A** for a summary of the assessment process).

Assessment included a review of background documentation, design team consultation, and Geographical Information System (GIS) analysis.

**Table 3** identifies the bushfire protection measures assessed and whether these involved acceptable or performance solutions.

**Table 3: Summary of bushfire protection measures assessed**

Bushfire Protection Measure	Acceptable Solution	Performance Solution	Report Section
Asset Protection Zones	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.1
Construction standard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.3
Access	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.4
Water supply	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.5
Gas and electrical supplies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.5

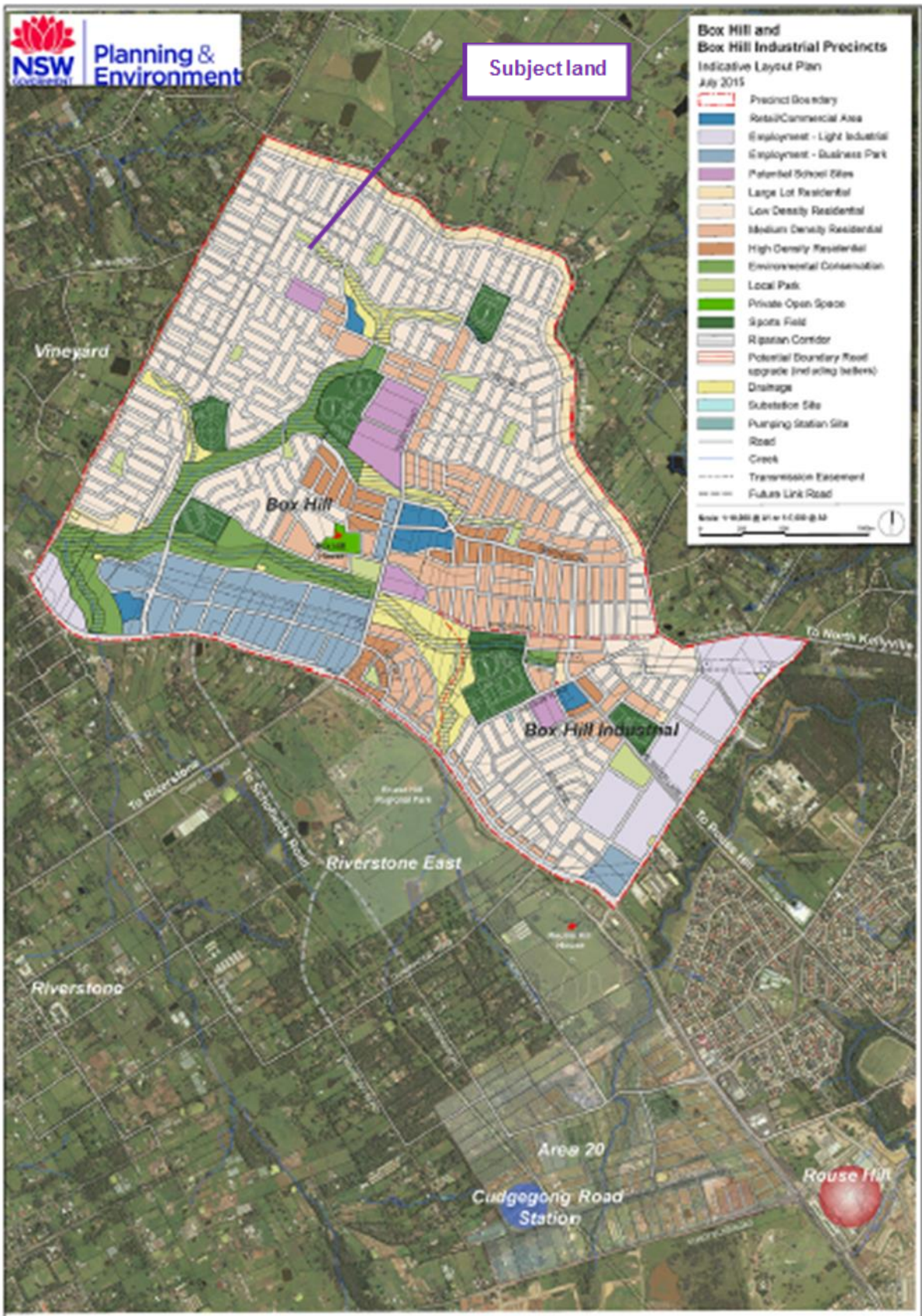


Figure 1: Box Hill Precinct – Indicative Layout Plan

Bushfire Protection Assessment  
 Stages 11 and 12 Boundary Road, Box Hill

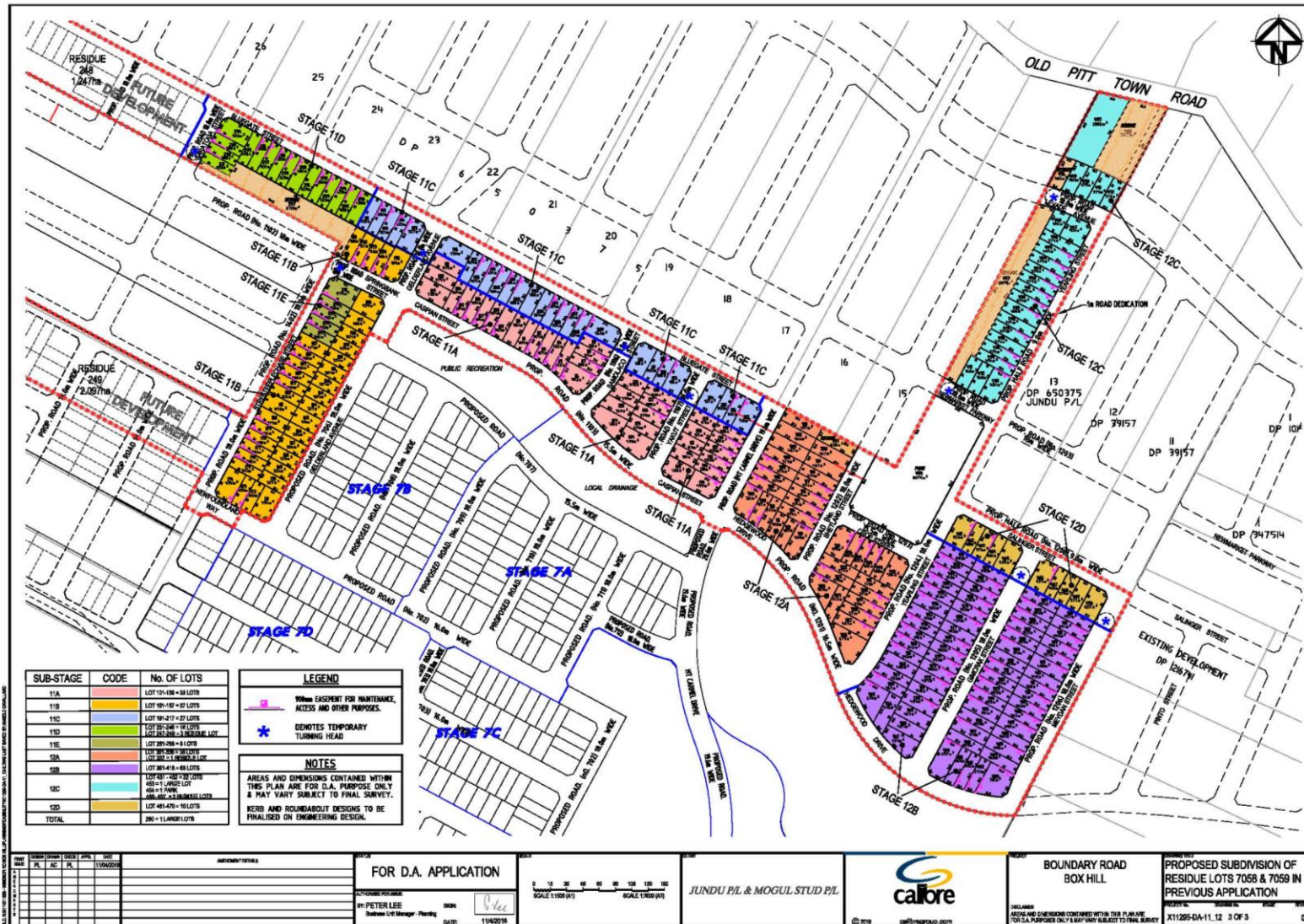


Figure 2: Stages 11 and 12 Subdivision Layout

## 2 Bushfire threat assessment

**Figure 3** shows the effective slope and predominant vegetation on transect lines representing the highest bushfire threat potentially posed to the subdivision from various directions.

The effective slope has been determined from 2 m contour data.

The predominant vegetation has been determined from existing vegetation maps (Office of the Environment and Heritage) and revised where required by desktop assessment using Near Map imagery captured in January 2018.

As shown in **Figure 3**, the bushfire hazard adjoins the subject land to the north and east. This hazard consists of a mixture of grassland, forest and woodland as defined under PBP. Future planned residential development of the lands adjoining the subject will result in removal of this bushfire hazard.

Adjoining lands with a current Development Application (DA) submitted with Council are considered as managed land for the purposes of this report.

To the south of the proposed development, there are managed lands in the form of drainage easements, recreational and land cleared for future residential development.

It should be noted that The Hills Bush Fire Prone Land Map applying to the subject land and surrounding area has not yet been updated to reflect recent development as per the *Guide for Bush Fire Prone Land Mapping Version 5b* (NSW Rural Fire Service 2015). The extent of bush fire prone land should be assessed as per the vegetation hazard outlined in this BPA.

**Figure 3** and **Table 4** show the vegetation and slope information assessed. Where required additional information is provided within **Table 3** on why and how the chosen slope and vegetation has been calculated.

The site is located within the Local Government Area (LGA) of The Hills Shire Council and has a Fire Danger Index (FDI) of 100.

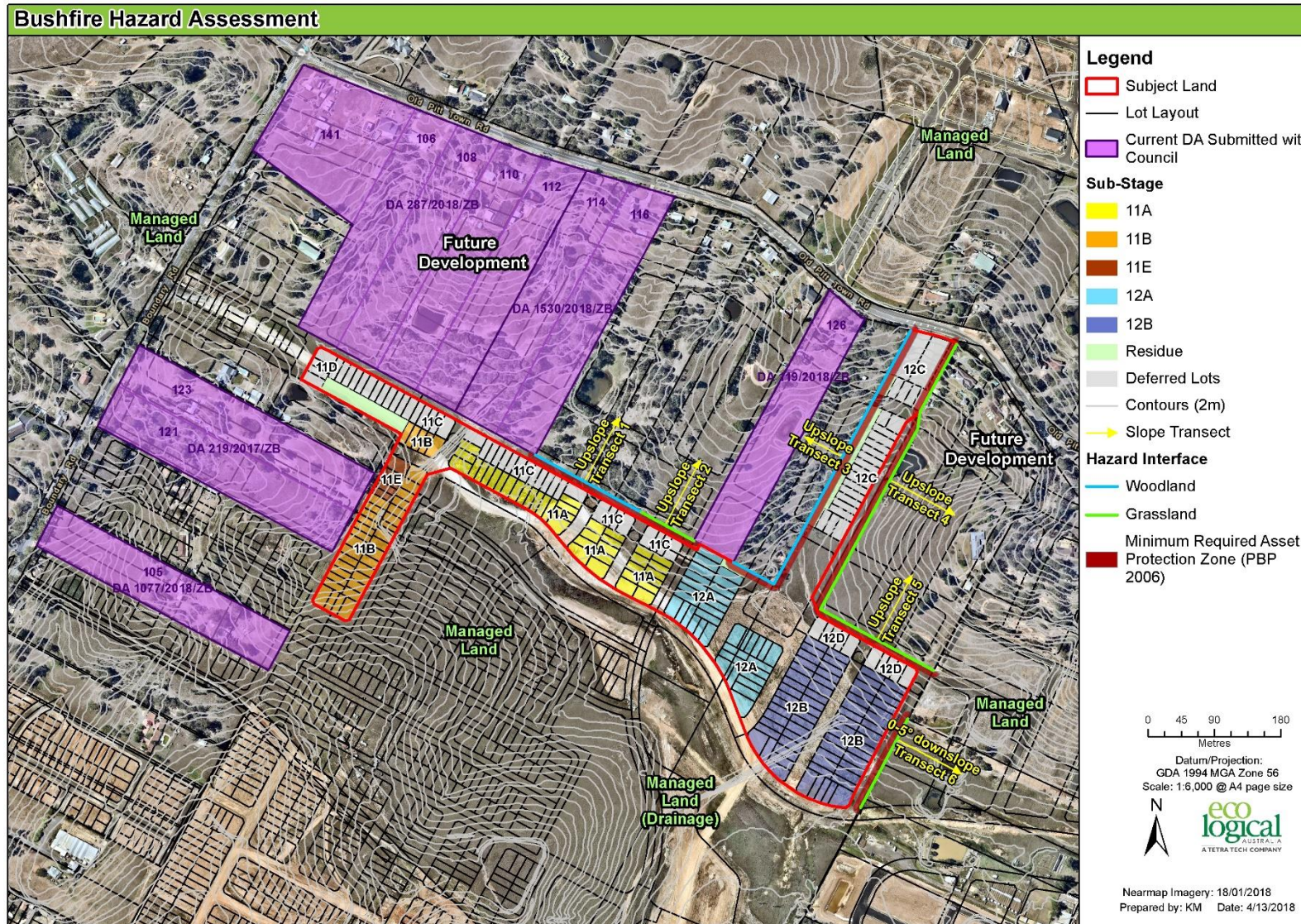


Figure 3: Bushfire hazard assessment

## 3 Bushfire protection measures

### 3.1 Asset Protection Zones (APZ)

**Table 4** (below) shows the dimensions of the Asset Protection Zones (APZ) required in each of the transect line directions; and where relevant, information on how the APZ is to be provided is included. The footprint of the required APZ is also shown in **Figure 3**.

The assessment in **Table 4** is based on current slope and vegetation conditions. As the surrounding land is developed and the vegetation hazard reduced, the identified temporary APZ requirements will be extinguished.

### 3.2 APZ maintenance plan

Where the APZ is to be established it is to be managed to Inner Protection Area standards as follows:

- No tree or tree canopy is to occur within 2 m of the future building rooflines;
- The presence of a few shrubs or trees in the APZ is acceptable provided they:
  - Are well spread out and do not form a continuous canopy;
  - Are not species that retain dead material or deposit excessive quantities of ground fuel in a short period or in a danger period; and
  - Are located far enough away from the building so that they will not ignite future buildings by direct flame contact or radiant heat emission.
- Any landscaping or plantings should preferably be local endemic mesic species or other low flammability species;
- A minimal ground fuel is to be maintained to include less than 4 tonnes per hectare of fine fuel (fine fuel means ANY dead or living vegetation of <6 mm in diameter e.g. twigs less than a pencil in thickness. 4 t/ha is equivalent to a 1 cm thick layer of leaf litter); and
- Any structures storing combustible materials such as firewood (e.g. sheds) must be sealed to prevent entry of burning debris.

Further details on APZ implementation and management can be found on the NSW RFS website including:

[https://www.rfs.nsw.gov.au/\\_data/assets/pdf\\_file/0010/13321/Standards-for-Asset-Protection-Zones.pdf](https://www.rfs.nsw.gov.au/_data/assets/pdf_file/0010/13321/Standards-for-Asset-Protection-Zones.pdf).

**Table 4: Bushfire hazard assessment and APZ requirements**

Direction from development boundary	Slope	Vegetation	PBP required APZ (PBP 2006)	BAL-29 required APZ (AS 3959-2009)	Proposed APZ	Comments
Transect 1	All upslopes and flat land	Woodland	10 m	16 m	25 m	Temporary APZ provided within managed lands of deferred Stage 11C
Transect 2	All upslopes and flat land	Grassland	10 m	9 m	40 m	Temporary APZ provided within managed lands of deferred Stage 11C
Transect 3	All upslopes and flat land	Woodland	10 m	16 m	N/A	No APZ proposed. Conditional approval based on hazard to be removed upon planned development of lands adjoining the north shown in <b>Figure 3</b> .
Transect 4	All upslopes and flat land	Grassland	10 m	9 m	N/A	No APZ proposed. Conditional approval based on hazard to be removed upon planned development of lands adjoining the north shown in <b>Figure 3</b> .
Transect 5	All upslopes and flat land	Grassland	10 m	9 m	N/A	No APZ proposed. Conditional approval based on hazard to be removed upon planned development of lands adjoining the north shown in <b>Figure 3</b> .
Transect 6	Downslope >0 to 5 degrees	Grassland	10 m	10 m	18 m	Temporary APZ provided within 18 m wide road reserve.

### 3.3 Construction standard

The Bushfire Attack Level (BAL) for future dwellings within the proposed subdivision will be determined at the individual dwelling Complying Development Certificate (CDC) or Development Application (DA) stage, however, the expected maximum BAL is BAL-LOW based on future planned development.

### 3.4 Access

Public road access to the subdivision is via proposed new roads.

**Figure 3** shows the proposed internal public road access within the subdivision. Once the surrounding land is developed, no lots or roads will directly interface a bushfire hazard and as such no perimeter access is required. Temporary turning heads will be required until completion of internal public access roads. Sub Stages 11C and 12D will be managed as a minimum 25 m temporary APZ until future development of the lands adjoining the north. This removes the need for a perimeter access road.

The performance criteria and acceptable solutions for each of these access types are shown in **Appendix B**, along with comment on the subdivision design compliance or otherwise. All access within the subdivision meets the acceptable solutions within PBP.

### 3.5 Services – Water, electricity and gas

#### 3.5.1 Water

The proposal will be serviced by a reticulated water supply. **Table 5** identifies the acceptable solution requirements of Section 4.1.3 of PBP for which the proposal is compliant with, subject to the following specifications:

**Table 5: Performance criteria for reticulated water supplies (PBP page 27)**

Performance Criteria	Acceptable Solutions	Complies
<b>The intent may be achieved where:</b>		
<ul style="list-style-type: none"> <li>• water supplies are easily accessible and located at regular intervals</li> </ul>	<ul style="list-style-type: none"> <li>• reticulated water supply to urban subdivisions uses a ring main system for areas with perimeter roads.</li> </ul>	Can comply
	<ul style="list-style-type: none"> <li>• fire hydrant spacing, sizing and pressures comply with AS 2419.1 – 2005. Where this cannot be met, the RFS will require a test report of the water pressures anticipated by the relevant water supply authority. In such cases, the location, number and sizing of hydrants shall be determined using fire engineering principles.</li> </ul>	Can comply
	<ul style="list-style-type: none"> <li>• hydrants are not located within any road carriageway</li> </ul>	Can comply
	<ul style="list-style-type: none"> <li>• all above ground water and gas service pipes external to the building are metal, including and up to any taps.</li> </ul>	Can comply
	<ul style="list-style-type: none"> <li>• the provisions of parking on public roads are met.</li> </ul>	Can comply

#### 3.5.2 Electricity services

Electricity supply to / within the subject land is located underground and therefore complies with Section 4.1.3 of PBP.

#### 3.5.3 Gas services

Gas services (reticulated or bottle gas) are compliant with Section 4.1.3 of PBP, subject to the following specifications:

- Any gas services are to be installed and maintained in accordance with Australian Standard AS/NZS 1596 *The storage and handling of LP Gas* (SA 2014). Metal piping is to be used;
- All fixed gas cylinders are kept clear of all flammable materials to a distance of 10 metres and shielded on the hazard side of the installation;
- If gas cylinders need to be kept close to the building, the release valves are directed away from the building and at least 2 metres away from any combustible material, so that they do not act as a catalyst to combustion. Connections to and from gas cylinders are metal; and
- Polymer sheathed flexible gas supply lines to gas meters adjacent to buildings are not used.

## 4 Assessment of environmental issues

An assessment of significant environmental features, threatened species or Aboriginal relics identified under the *Biodiversity Conservation Act 2017* or the *National Parks Act 1974* that will affect or be affected by the bushfire protection proposals in this report has not been undertaken as it is covered by other parts of the DA process. However, site impacts have been minimised by carefully selected bushfire protection measures.

The Hills Shire Council is the determining authority for this development; they will assess more thoroughly any potential environmental and heritage issues.

## 5 Conclusion

The proposed subdivision can comply with the acceptable solutions within 'Planning for Bush Fire Protection 2006', (see **Table 3**), subject to development of surrounding lands to the north and east.

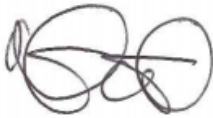
**Table 6: Summary of bushfire protection measures assessed**

Bushfire Protection Measures	Complies	Requirements	Acceptable Solution	Performance Solution	Report Section
Asset Protection Zones	<input checked="" type="checkbox"/>	APZ dimensions are detailed in <b>Table 4</b> and <b>Figure 3</b> .	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.1
APZ Maintenance plan	<input checked="" type="checkbox"/>	Identified APZ to be maintained in perpetuity to the detailed specifications in <b>Section 3.2</b> .	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.2
Construction standard	<input checked="" type="checkbox"/>	BAL for dwellings to be determined at individual CDC/DA stage however, a maximum of BAL-LOW is achievable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.3
Access	<input checked="" type="checkbox"/>	Access to meet standards detailed in <b>Table 7</b> .	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.4
Water supply	<input checked="" type="checkbox"/>	Reticulated water supply to meet PBP acceptable solution specifications for a subdivision.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.5.1
Electricity service	<input checked="" type="checkbox"/>	Electricity supply located underground.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.5.2
Gas service	<input checked="" type="checkbox"/>	Gas services are to be installed and maintained in accordance with AS/NZS 1596:2014.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.5.3

## 6 Recommendations

It is recommended that the subdivision be issued a Bush Fire Safety Authority based on the approval status noted below.

Sub Stage	Approval Status
Stage 11A	Development Approval
Stage 11B	Development Approval
Stage 11C	Conditional/deferred approval
Stage 11D	Conditional/deferred approval
Stage 11E	Development Approval
Stage 12A	Development Approval
Stage 12B	Development Approval
Stage 12C	Conditional/deferred approval
Stage 12D	Conditional/deferred approval



Natalie South  
**Bushfire Technical Assistant**



Bruce Horkings  
**Senior Bushfire Consultant**  
**FPAAC Certified Practitioner No. BPAD29962-L3**



## 7 References

Industry Safety Steering Committee 3 (ISSC3). 2016. *ISSC3 Guide for the Management of Vegetation in the Vicinity of Electricity Supply Infrastructure*. November 2016. NSW.

Keith, D. 2004. *Ocean Shores to Desert Dunes*. Department of Environment and Conservation, Sydney.

NSW Rural Fire Service, (2015). *Guide for Bush Fire Prone Land Mapping Version 5b*. November 2016, NSW.

NSW Rural Fire Service (RFS). 2006. *Planning for Bush Fire Protection: A Guide for Councils, Planners, Fire Authorities, Developers and Home Owners* including the 2010 Appendix 3 Addendum. Australian Government Publishing Service, Canberra.

Standards Australia (SA). 2005. *Fire hydrant installations - System design, installation and commissioning*, AS 2419.1, Fourth edition 2005, SAI Global, Sydney.

Standards Australia (SA). 2009. *Construction of buildings in bushfire-prone areas (including Amendments 1 – 3)*, AS 3959-2009. SAI Global, Sydney.

Standards Australia (SA). 2014. *The storage and handling of LP Gas*, AS/NZS 1596:2014. SAI Global, Sydney.

# Appendix A – Assessment process

## **Vegetation types**

In accord with PBP the predominant vegetation class has been assessed for a distance of at least 140 m from the subject land in all directions.

## **Effective slope**

In accord with PBP, the slope that would most significantly influence fire behaviour was determined over a distance of 100 m from the boundary of the proposed development where the vegetation was found.

## **Asset Protection Zone determination**

Table A2.4 (FDI 100) of PBP has been used to determine the width of required Asset Protection Zone (APZ) for the proposed development using the vegetation and slope data identified in **Section 2**.

# Appendix B – Access specifications

**Table 7: Performance criteria for proposed public roads (PBP page 21)**

Performance Criteria	Acceptable Solutions	Complies
<b>The intent may be achieved where:</b>		
<ul style="list-style-type: none"> <li>• firefighters are provided with safe all weather access to structures (thus allowing more efficient use of firefighting resources)</li> </ul>	<ul style="list-style-type: none"> <li>• public roads are two-wheel drive, all weather roads</li> </ul>	Can comply
<ul style="list-style-type: none"> <li>• public road widths and design that allows safe access for firefighters while residents are evacuating an area</li> </ul>	<ul style="list-style-type: none"> <li>• urban perimeter roads are two-way, that is, at least two traffic lane widths (carriageway 8 metres minimum kerb to kerb), allowing traffic to pass in opposite directions. Non perimeter roads comply with Table 4.1 – Road widths for Category 1 Tanker (Medium Rigid Vehicle)</li> <li>• the perimeter road is linked to the internal road system at an interval of no greater than 500 metres in urban areas</li> <li>• traffic management devices are constructed to facilitate access by emergency services vehicles</li> <li>• public roads have a cross fall not exceeding 3 degrees</li> <li>• public roads are through roads. Dead end roads are not recommended, but if unavoidable, dead ends are not more than 200 metres in length, incorporate a minimum 12 metres outer radius turning circle, and are clearly sign posted as a dead end and direct traffic away from the hazard</li> <li>• curves of roads (other than perimeter roads) are a minimum inner radius of six metres</li> <li>• maximum grades for sealed roads do not exceed 15 degrees and an average grade of not more than 10 degrees or other gradient specified by road design standards, whichever is the lesser gradient</li> <li>• there is a minimum vertical clearance to a height of four metres above the road at all times</li> </ul>	<p>N/A - No perimeter road required. Non-perimeter roads to comply with DCP specifications</p> <p>N/A</p> <p>Can comply</p> <p>Can comply</p> <p>Can comply</p> <p>Temporary dead ends require appropriate temporary turning head</p> <p>Can comply</p> <p>Can comply</p> <p>Can comply</p>

Performance Criteria	Acceptable Solutions	Complies
<ul style="list-style-type: none"> <li>the capacity of road surfaces and bridges is sufficient to carry fully loaded firefighting vehicles</li> </ul>	<ul style="list-style-type: none"> <li>the capacity of road surfaces and bridges is sufficient to carry fully loaded firefighting vehicles (approximately 15 tonnes for areas with reticulated water, 28 tonnes or 9 tonnes per axle for all other areas). Bridges clearly indicated load rating</li> </ul>	Can comply
<ul style="list-style-type: none"> <li>roads that are clearly sign posted (with easy distinguishable names) and buildings / properties that are clearly numbered</li> </ul>	<ul style="list-style-type: none"> <li>public roads greater than 6.5 metres wide to locate hydrants outside of parking reserves to ensure accessibility to reticulated water for fire suppression</li> <li>public roads between 6.5 metres and 8 metres wide are No Parking on one side with the services (hydrants) located on this side to ensure accessibility to reticulated water for fire suppression</li> </ul>	Can comply  Can comply
<ul style="list-style-type: none"> <li>there is clear access to reticulated water supply</li> </ul>	<ul style="list-style-type: none"> <li>public roads up to 6.5 metres wide provide parking within parking bays and located services outside of the parking bays to ensure accessibility to reticulated water for fire suppression</li> <li>one way only public access roads are no less than 3.5 metres wide and provide parking within parking bays and located services outside of the parking bays to ensure accessibility to reticulated water for fire suppression</li> </ul>	Can comply  N/A
<ul style="list-style-type: none"> <li>parking does not obstruct the minimum paved width</li> </ul>	<ul style="list-style-type: none"> <li>parking bays are a minimum of 2.6 metres wide from kerb to kerb edge to road pavement . No services or hydrants are located within the parking bays</li> <li>public roads directly interfacing the bush fire hazard vegetation provide roll top kerbing to the hazard side of the road</li> </ul>	Can comply  Can comply



**HEAD OFFICE**

Suite 2, Level 3  
668-672 Old Princes Highway  
Sutherland NSW 2232  
T 02 8536 8600  
F 02 9542 5622

**CANBERRA**

Level 2  
11 London Circuit  
Canberra ACT 2601  
T 02 6103 0145  
F 02 9542 5622

**COFFS HARBOUR**

35 Orlando Street  
Coffs Harbour Jetty NSW 2450  
T 02 6651 5484  
F 02 6651 6890

**PERTH**

Suite 1 & 2  
49 Ord Street  
West Perth WA 6005  
T 08 9227 1070  
F 02 9542 5622

**DARWIN**

16/56 Marina Boulevard  
Cullen Bay NT 0820  
T 08 8989 5601  
F 08 8941 1220

**SYDNEY**

Suite 1, Level 1  
101 Sussex Street  
Sydney NSW 2000  
T 02 8536 8650  
F 02 9542 5622

**NEWCASTLE**

Suites 28 & 29, Level 7  
19 Bolton Street  
Newcastle NSW 2300  
T 02 4910 0125  
F 02 9542 5622

**ARMIDALE**

92 Taylor Street  
Armidale NSW 2350  
T 02 8081 2685  
F 02 9542 5622

**WOLLONGONG**

Suite 204, Level 2  
62 Moore Street  
Austinmer NSW 2515  
T 02 4201 2200  
F 02 9542 5622

**BRISBANE**

Suite 1, Level 3  
471 Adelaide Street  
Brisbane QLD 4000  
T 07 3503 7192  
F 07 3854 0310

**HUSKISSON**

Unit 1, 51 Owen Street  
Huskisson NSW 2540  
T 02 4201 2264  
F 02 9542 5622

**NAROOMA**

5/20 Cauty Street  
Narooma NSW 2546  
T 02 4302 1266  
F 02 9542 5622

**MUDGEES**

Unit 1, Level 1  
79 Market Street  
Mudgee NSW 2850  
T 02 4302 1234  
F 02 6372 9230

**GOSFORD**

Suite 5, Baker One  
1-5 Baker Street  
Gosford NSW 2250  
T 02 4302 1221  
F 02 9542 5622

**ADELAIDE**

2, 70 Pirie Street  
Adelaide SA 5000  
T 08 8470 6650  
F 02 9542 5622