



LAKE NAGAMBIE RESORT - STAGE A EMERGENCY MANAGEMENT PLAN

June 2023



#### 1. INTRODUCTION

The 'Lake Nagambie Resort Stage A Emergency Management Plan' has been prepared in accordance with the requirements of Schedule 1 of the Comprehensive Development Zone with the Strathbogie Planning Scheme (CDZ1).

In response to these requirements, the following documentation transmittal provides a comprehensive list of the plans and guidelines prepared by Hallmarc Developments Pty Ltd (Hallmarc) that form a part of the Lake Nagambie Resort Stage A Emergency Management Plan. The following documents are annexed to this Development Plan.

ID	DOCUMENT	CONTENTS
'LAKE NA	GAMBIE RESORT STAGE A EMERG	ENCY MANAGEMENT PLAN'
Α	Lake Nagambie Resort Stage A Emergency Management Plan (Drawing No: EMP01_R1)	The Stage A Emergency Management Plan outlines the key meeting locations and egress routes.
В	BAL Report	Confirmation of BAL rating and report.

#### 2. SCOPE

The Lake Nagambie Resort Stage A Emergency Management Plan details the evacuation protocols and management strategies to be implemented to ensure that the development establishes and maintains best practice controls to manage potential emergency events.

The plan is prepared with a focus on the emergency access and egress to and from the land. In this respect, the plan provides egress routes for both minor emergencies wherein residents may walk to refuge locations, and major emergencies wherein advice is received from authorities advising residents to evacuate the municipality. In this respect, a minor emergency is deemed to be one that is initiated by the Avington Lifestyle Village staff, whereas a major emergency is deemed to be one that impacts the broader Nagambie community as a whole and is initiated by state authorities (including but not limited to natural bush fires and floods).

The Emergency Plan depicts the egress and access routes for residents and authorities during the event of an emergency. The yellow arrows indicate the direction towards the on-site refuge location, being the Club Elloura Community Facility. The green arrows indicate the direction towards the off-site refuge location, the Buckley Park Foreshore. Wherein municipal wide emergencies are declared, residents are directed to evacuate the site following the red arrows, exiting via Vickers Road.

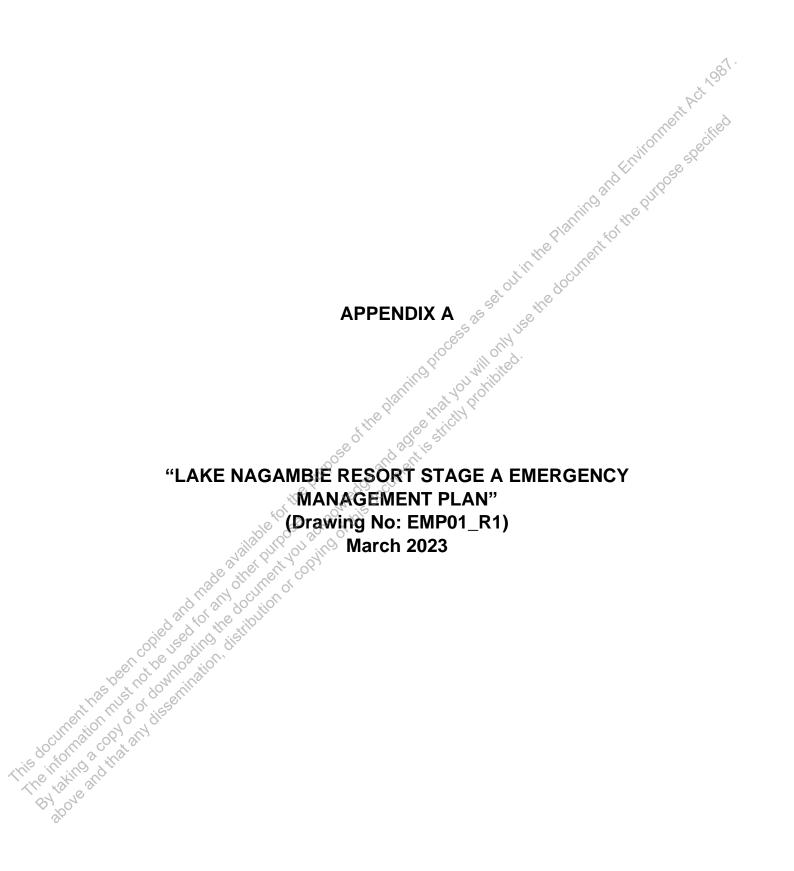
As part of the Emergency Management Plan, the proposal includes an Emergency Marshall who will be responsible for identifying emergencies, classifying the threat level, and determining whether on-site or off-site evacuation is required.

#### 3. CDZ1 RESPONSE

Please refer to the "Comprehensive Development Zone Response to Schedule 1" Report prepared by Urban Design and Management ('UDM') for a discussion of the mechanisms that satisfy the requirements of the CDZ1.

Hallmarc Developments Pty Ltd ABN 58 088 862 793







### EMERGENCY MANAGEMENT PROCEDURE

- In the event of a site evacuation, residents are to meet at 'Location B' via the yellow arrows indicating the path of egress.
- Once residents have met at 'Location B', and the Emergency Marshall deems necessary, the residents will evacuate the site to 'Location A' via the green arrows indicating the path of egress.
- In the event of municipality evacuation, residents shall follow the red arrows indicating the path of egress to evacuate the municipality via Vickers Road.

#### **EMERGENCY REFUGE AREAS**

- Location A: Club Elloura Community Facility
- Location B: Buckley Park Foreshore





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# Fast Inspect Consulting Pty Ltd

www.bushfirebalreports.com.au Email: info@fastinspect.com.au



# **Bushfire Attack Level (BAL) Certificate**

Determined in accordance with AS 3959-2018

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Site Details					
Address:		50 Eloura Drive		ning and	<sub>s Purpos</sub>
Suburb:		Nagambie		Stat	e: VIC
Local Government Area:		Strathbogie Shire	Council	rin r. Hoching	
Report / Job Number:		221023	Report Date:	22 <sup>nd</sup> Nove	mber 2022
			Mocess only	·	
Determination of High	est Bushf	ire Attack Level			
AS 3959 Assessment Procedure	Vege	tation Classification	Effective Slope	Separation Distance	BAL
Method 1	Low T	hreat Vegetation	N/A	N/A	<b>BAL 12.5</b>
		Dribo 106 Struck			
Practitioner Details		for the Monthis dos			
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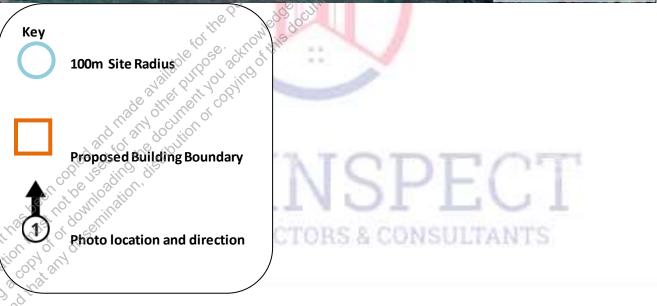
# AS 3959-2018 Bushfire Attack Level (BAL) Assessment Report

Site Details					
Address:	50 Eloura Drive				
Suburb:	Nagambie (1) O Third (1)	State:	VIC		
Local Government Area:	Strathbogie Shire Council				
Description of Building Works:	A proposed clubhouse to a new residentia	al develo	pement		

Report Details				
Report / Job Number:	221024	Report Version:	1	
Assessment Date:	24 <sup>th</sup> October 2022	Report Date:	22 <sup>nd</sup> November 2022	

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#### **Vegetation Classification**

All vegetation within 100m of the site / proposed development was classified in accordance with Clause 2.2.3 of AS 3959-2018. Each distinguishable vegetation plot with the potential to determine the Bushfire Attack Level is identified below.

#### Photo 1 West Facing

**Classification**: Low Threat Vegetation

Description: Foliage in the photo is mainly suburban maintained gardens & reserves/sporting fields / nature strips managed in a minimum fuel condition and is therefore excluded as low threat vegetation under AS 3959 2.2.3.2(F) & Non-vegetated areas such as roads & footpaths. AS 3959 2.2.3.2 (E)

# 2131755101

• -36.789403, 145.145326 ±6 m 🛦 140 m



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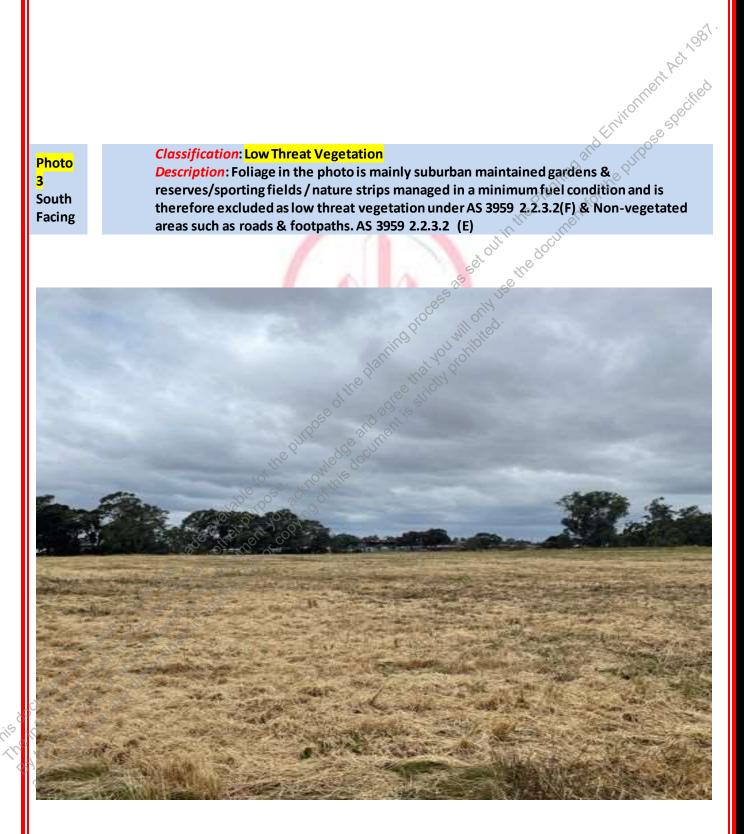
Photo 2 North facing **Classification**: Low Threat Vegetation

**Description:** Foliage in this phot0 is the low threat managed vegetation that in 9031 m2 & excluded under AS 3959-2018 (b) Single areas of vegetation less than 1 ha in area and not within 100 m of other areas of vegetation being classified vegetation.



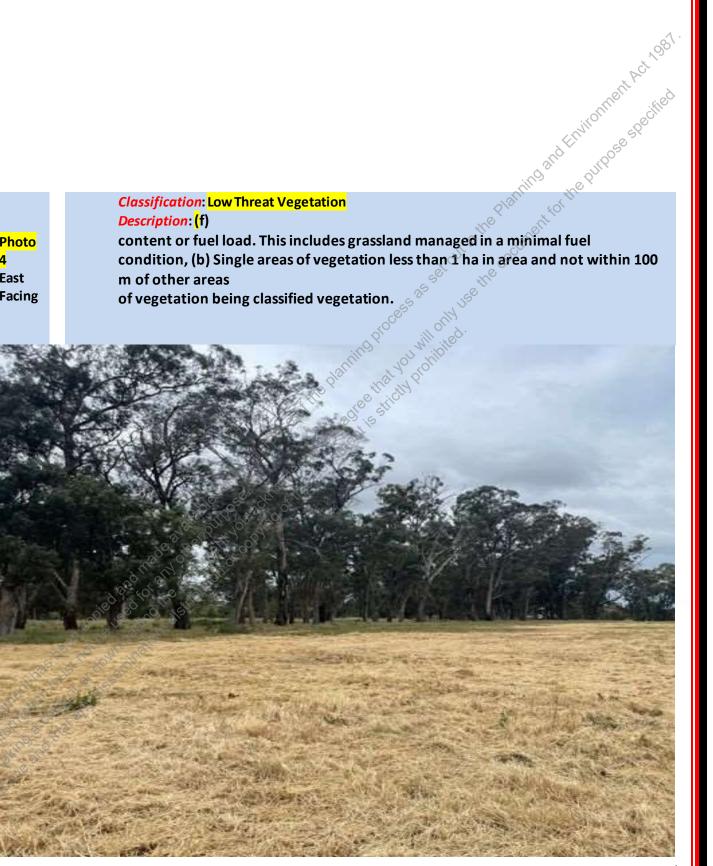
**Photo** 

South **Facing** 



**Photo** 

East **Facing** 



#### Relevant Fire Danger Index

The fire danger index for this site has been determined in accordance with Table 2.1 or otherwise determined in accordance with a jurisdictional variation applicable to the site.

#### **Fire Danger Index**

FDI 80 Table 2.4.3 FDI 100 🗹 Table 2.4.2

#### Potential Bushfire Impacts

The potential bushfire impact to the site / proposed development from each of the identified vegetation plots are identified below.

Plot	Vegetation Classification	Effective Slope (°)	Separation (m)	BAL
Α	Low Threat Vegetation	N/A ces only	N/A	BAL 12.5
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		John of Association		
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Table 1: BAL Analysis

#### Determined Bushfire Attack Level (BAL)

The Determined Bushfire Attack Level (highest BAL) for the site / proposed development has been determined in accordance with clause 2.2.6 of AS 3959-2018 using the above analysis.

Det	termined Bushfire Attack Leve	į.
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**BAL-12.5** 

#### **Construction Requirements**

A Building Assessed in Section 2 as being BAL 12.5 shall comply with Section 3 and Section 4 of AS 3959 – 2012.5.

External Walls BAL.12.5 - Parts less than 400 mm above ground or decks etc to be of non-combustible material, 6 mm fibre cement clad or bushfire resistant/naturally fire-resistant timber

#### External Windows BAL 12.5

Protected by bushfire shutter, completely screened with steel, bronze or aluminium mesh or 5 mm toughened glass or glass blocks within 400 mm of ground, deck etc. Open able portion metal screened with frame of metal or metal reinforced PVC-U or bushfire resisting timber. As for BAL-19 except that 5 mm Grade A safety glass can be used in place of 5 mm toughened glass in a property rated BAL 12.5

#### Roofs BAL 12.5

Non-combustible covering. Roof/Wal<mark>l j</mark>unction seale<mark>d. ope</mark>nings fitted with non-combustible ember guards. roof to be fully sarked.

#### External doors BAL 12.5

Protected by bushfire shutter, or screened with steel, bronze or aluminium mesh or glazed with 5 mm toughened, non-combustible or 35 mm solid timber for 400 mm above threshold, metal or bushfire resisting timber framed for 400 mm above ground, decking, etc, tight-fitting with weather strips at base. Door framing can be naturally fire resistant (high density) timber.

#### Verandahs/Decks Etc BAL 12.5

Enclosed sub-floor space - no special requirement for materials except within 400 mm of ground. No special requirements for supports or framing. Decking to be non-combustible or bushfire resistant within 300 mm horizontally and 400 mm vertically from a glazed element.

Appendix 1: – Additional Information / Advisory Notes / Justifications Related to Assessment.

A example of downslope /foliage classification & separation distance **Forest House** BAL BAL **Grassland** -12 m 10 m= 40 m of the date 4 m 2 TALL SHRUBLAND 6-15 WOODLAND B-05 40 m 30 20 10 CLOSED SCRUB D-13 OPEN SCRUB D-14 Figure 1 Forest

#### Appendix 2: – Additional Information / Advisory Notes / Justifications Related to Assessment

#### The other foliage in the 100-metre radius

2.2.3.2 Exclusions—Low threat vegetation and non-vegetated areas

- vegetation being classified vegetation.

  (c) Multiple areas of vegetation less than 0.25 ha in area and not within 20 m of the site, or each other or of other areas of vegetation being classified vegetation.

  (d) Strips of vegetation less than 20 m in width (measured now exposed to the strip of vegetation) reach other. or each other, or other areas of vegetation being classified vegetation.
- (e) Non-vegetated areas, that is, areas permanently cleared of vegetation, including waterways, exposed beaches, roads, footpaths, buildings and rocky outcrops.
- (f) Vegetation regarded as low threat due to factors such as flammability, moisture content or fuel load. This includes grassland managed in a minimal fuel condition, mangroves and other saline wetlands, maintained lawns, golf courses (such as playing areas and fairways), maintained public reserves and parklands, sporting fields, vineyards, orchards, banana plantations, market gardens (and other non-curing crops), cultivated gardens, commercial nurseries, nature strips and windbreaks.
  - > Figure 9: BAL construction levels respond to different levels of risk.

withstand different levels of bushfire attack, as illustrated below

and 19 kW/m<sup>2</sup>

**BAL-19 BAL-29** BAL-40 BAL-FZ Increasing ember Ember attack Direct exposure to Increasing ember Increasing ember attack and attack and flames, radiant radiant heat below attack and ○12.5 kW/m². windborne debris, windborne debris, windborne debris, heat and embers radiant heat radiant heat from the fire front. radiant heat between 19 kW/m2 between 29 kW/m² and 40 kW/m². 12.5 kW/m<sup>2</sup> and 29 kW/m2.

Exposure to flames from fire

front likely.

# Appendix 3: – Additional Information / FDI 100 table (Fire Danger Index\_FD1 100 Table

	BALs					
Vegetation classification	BAL— FZ	BAL— 40	BAL— 29	BAL— 19	BAL—12.5	
	Distance (m) of the site from the predominant vegetation class					
All upslopes and flat land (0 degrees)						
A. Forest	<19	19–<25	25–<35	35–<48	48-<100	
B. Woodland	<12	12-<16	16-<24	24-<33	33–<100	
C. Shrubland	<7	7-<9	9–<13	13-<19	19–<100	
D. Scrub	<10	10-<13	13-<19	19–<27	27-<100	
E. Mallee/Mulga	<6	6-<8	8-<12	12-<17	17–<100	
G. Grassland	<6	6-<9	9–<13	13-<19	19–50	
			Downslop	oe >0 to 5 degrees	8.	
A. Forest	<24	24-<32	32-<43	43-<57	57–<100	
B. Woodland	<15	15-<21	21-<29	5°29-<41, V°	41-<100	
C. Shrubland	<7	7-<10	10-<15	15-<22	22-<100	
D. Scrub	<11	11-<15	15-<22	22-<31	31-<100	
E. Mallee/Mulga	<7	7-<9	9–<13	13-<20	20-<100	
G. Grassland	<7	7-<10	10-<15	15-<22	22-<50	
			Downslop	e >5 to 10 degrees		
A. Forest	<31	31–<39	39-<53	53-<69	69–<100	
B. Woodland	<20	20-<26	26-<37	37-<50	50-<100	
C. Shrubland	<8	8-<11	O 11-<17	17-<25	25–<100	
D. Scrub	<12	12-<17	17-<24	24-<35	35-<100	
E. Mallee/Mulga	<7	7-<10	10-<15	15-<23	23-<100	
G. Grassland	<8 ~10	8-<11	11-<17	17-<25	25–<50	
	30° 30	S. Co.	Downslope	e >10 to 15 degrees	LTANTS	
A. Forest	<39	39–<49	49–<64	64–<82	82-<100	
B. Woodland	21 <25	25-<33	33-<45	45-<60	60–<100	
C. Shrubland	16 260 40 1 16th	9–<13	13-<19	19–<28	28–<100	
D. Scrub	© 214°	14-<19	19–<28	28–<39	39–<100	
E. Mallee/Mulga	White 188	8-<11	11-<18	18–<26	26–<100	
G. Grassland	~9	9-<13	13-<20	20-<28	28–<50	
Downslope >15 to 20 degrees						
A. Forest	<50	50-<61	61–<78	78–<98	98–<100	
B. Woodland	<32	32-<41	41-<56	56–<73	73–<100	
C. Shrubland	<10	10-<15	15-<22	22-<31	31–<100	
D. Scrub	<15	15-<21	21-<31	31-<43	43-<100	
E. Mallee/Mulga	<9	9–<13	13-<20	20-<29	29–<100	
G. Grassland	<11	11-<15	15-<23	23-<32	32-<50	