This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the su Planning and Environment Act 1987 The document must not be used for any purpose which may breach any copyright

ARBORIST REPORT

TREE CARE

## **ARBORICULTURAL IMPACT ASSESSMENT**

PREPARED FOR: CORIO SKI CLUB

ADDRESS: 6 DELETITE LANE, MT BULLER 3723.

TREES INSPECTED:  $17^{TH}$  OF JULY 2023.

VERSION 1: 28/07/2023



Dip. Arb - Wodonga TAFE

Cert III Hort – Padstow TAFE/ Ryde School Hort

onyagood@outlook.com

0418612010

ABN 95492905491





## Contents

Executive Summary
1. Brief
2. Assessment Methodology5
3. Planning Property Report
4. Site Map
5. Observations
6. Tree Details
6.1 TPZ & SRZ Calculations
6.1 Discussion16
7. Conclusion17
7.1 Major Encroachment17
7.2 Minor Encroachment
8. Recommendations
8.1 Protection Methods During Construction29
9. References
10. Glossary
11. Disclaimer
11.1 Assumptions and Limiting Factors
11.2 Declaration40
Appendix 1: Tree Photos41

# ADVERTISED PLAN

## Executive Summary



Darren Cole-Sinclair from dcs design has contracted David Kuronya to provide an Arborist report for trees located at Corio Ski Club, 6 Delatite Lane Mt Buller Vic 3723.

This report will, include identification, dimensions, TPZ (Tree Protection Zone), SRZ (Structural Root Zone), ULE (Useful Life Expectancy), retention value and hazard rating.

Provide specific recommendations in relation to the impacts of the proposed alterations and extensions to the existing trees on site, especially those along the east and south sides of the building.

David J Kuronya attended 6 Delatite Lane Mt Buller Vic 3723 on the 17<sup>th</sup> of July ,2023 and accessed the twenty-six (26) subject trees (see Fig 2).

• Most of the trees are not directly affected by the proposed development of Corio Ski Club these include trees 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23 & 24.

This copied document to be made available

Of the twenty-six (26) subject trees only two (2) have minor encroachment these include its consideration and review as
 tree 3 with 6.39% and tree 21 with language process under the Planning and Environment Act 1987.

The document must not be used for any purpose which may breach any

copyright

- Four (4) trees are directly impacted by the proposed development with major encroachments into their TPZ's these are T1, T2, T25 & T26. Care will need to be taken along with some remedial works to ensure the trees remain viable.
- One tree has been recommended for removal T26, as it has Nil retention value, and is not worthy of being a constraint to a development design proposal.
- T1 requires Canopy Reduction Pruning is done as per the (Australian Standard 4373-2007 Pruning of Amenity Trees Clause 7.3.2 Reduction Pruning). This is to be done by pruning the ends of the branches back to internal lateral branches or stems, by approx. 10 to 15%, with no cuts larger than approx. 75mm. Especially the overextended branch, to the west growing directly over the roof of the lodge, which should be reduced back to the lowest available growth point, as soon as possible.

- T3 Canopy Reduction Pruning is done as per the (Australian Standard 4373-2007 Pruning of Amenity Trees Clause 7.3.2 Reduction Pruning). This is to be done by pruning the ends of the branches back to internal lateral branches or stems, by approx. 10 to 15%, with no cuts larger than approx. 75mm. Especially the overextended trunk, growing over the proposed new path to the north.
- Care will need to be taken during construction to prevent soil compaction and mechanical damage to the tree's trunks and branches. See 8. Recommendations and 8.1 Protection Methods During Construction, for details.

# ADVERTISED PLAN

## 1. Brief

Darren Cole-Sinclair from dcs design has contracted David Kuronya to provide an Arborist report for trees located at Corio Ski Club, 6 Delatite Lane Mt Buller Vic 3723.

This report will, include identification, dimensions, TPZ (Tree Protection Zone), SRZ (Structural Root Zone), ULE (Useful Life Expectancy), retention value and hazard rating.

Provide specific recommendations in relation to the impacts of the proposed alterations and extensions to the existing trees on site, especially those along the east and south sides of the building.

A site map showing the location of the trees inspected will be provided, with full photographic evidence of any defects to support all recommendations. All on-site data collected will also be available to the client if required.

## 2. Assessment Methodology

David J Kuronya attended 6 Delatite Lane Mt Buller Vic 3723 on the 17<sup>th</sup> of July ,2023 and accessed the twenty-six (26) subject trees (see Fig 2).

The subject trees were assessed from the ground only using the VTA (Visual Tree assessment) method (Matteck & Breloer, 1994, p118).

All trees inspected were tagged with numbered tags, attached to the southern side of the tree's trunk at approx. 1.5m.

The following equipment has been used for the tree assessment.

- DBH and Metric Measuring tapes
- Rubber mallet
- Wire probe
- iPhone11
- Measuring wheel
- iPad Air 4<sup>th</sup> gen
- Nikon Forestry Pro Laser Range Finder
- Trimble DA2 Receiver
- Trimble Terraflex

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

## ADVERTISED PLAN

## 3. Planning Property Report

Local Government Authority:	MOUNT BULLER ALPINE RESORT (UNINC)
Planning Zone:	CDZ - Comprehensive Development
Vegetation Protection & Significant	BMO - Bushfire Management Overlay
Landscape Overlays:	DDO - Design and Development Overlay
	EMO - Erosion Management Overlay
	Aboriginal Cultural Heritage
Permit Requirements	A planning permit under Clause 52.17 of the local planning scheme, may be required as per Native Vegetation (Clause 52.17) with local variations in Native Vegetation (Clause 52.17). Guidelines for the removal, destruction or lopping of native vegetation. December 2017

# ADVERTISED PLAN

#### PLANNING PROPERTY REPORT



Environment, Land, Water and Planning

From www.planning.vic.gov.au at 25	July 2023 04:49 PM		
PROPERTY DETAILS			
Address:	6 DELATITE LANE M	10UNT BULLER 3723	
Crown Description:	Allot. 139 Sec. A PA	RISH OF CHANGUE EAST	
Standard Parcel Identifier	(SPI): 139-A\PP2370		
Local Government Area (C	ouncil): MOUNT BULLER AL	PINE RESORT (UNINC)	
Council Property Number:	A80104		
Planning Scheme:	Alpine Resorts		Planning Scheme - Alpine Resorts
Directory Reference:	Vicroads 63 J4		
UTILITIES		STATE ELECTORATES	
Rural Water Corporation:	Goulburn-Murray Water	Legislative Council:	NORTHERN VICTORIA
Urban Water Corporation:	Goulburn Valley Water	Legislative Assembly:	EILDON
Melbourne Water:	Outside drainage boundar	Y	
Power Distributor:	AUSNET	OTHER	
		Registered Aboriginal Part	🗴 Taungurung Land and Waters
View location in VicPlan			Council Aboriginal Corporation
	This copied docu	ument to be made availab	le
Planning Zones	for the sole	e purpose of enabling	
COMPREHENSIVE DEVELOPMEN	T ZONE (CDZ) (MOUNT BULLER AL DATE OF A DIA)	ration and review as	
COMPREHENSIVE DEVELOPMEN	T ZONE SCHEDULE 1 (CDZ1) (MOL Planning and	Environment Act 1987.	
	The document	must not be used for any	
	purpose w	hich may breach any	9
	PPRZ	copyright	
	FALMEYTRA		
	·~~4/L	T	La Contraction of the contractio
			2
			1
		6	
13			
$\setminus$ /		CDZ1	Ful'A
			3
		7	=
	1 1 7 9		35 m
CDZ - Comprehensive Dev	elopment PPRZ - F	Public Park and Recreation	TRZ2 - Principal Road Network
Note: labels for zones may appear o	utside the actual zone - please compar	re the labels with the legend.	

Figure 1 Planning Permit, source VicPlan.





Figure 2 Site map showing tree locations. Source Peyton Waite Ref: 11787/01.



## 5. Observations

#### Description of the subject site

The site 1580m above sea level and is moderately treed mainly around the sites boundaries, with the majority of the trees located to the south of the building . Slopping from the south downhill to the north, the site is situated on the northern side of Delatite Lane. Access is via steel stairs off Delatite Lane, then a rock path with steps which extends down to the main entrance of the lodge. Another stair case extends past the lodge down hill, and to the east of the lodge. Corio Ski Club is a two story property containing a single main building and no onsite carpark. Stone retaining walls and terrising exist around the south and west of the lodge.

#### All trees on site are Eucalyptus pauciflora – Snow Gums.

This species is a tree or mallee, that typically grows to a height of 1–20 m and forms a lignotuber, oftern with multiple trunks.. It has smooth white, grey or yellow bark that is shed in ribbons and sometimes has insect scribbles. However, most trees on site would be no taller than 18m.

Snow gum is amongst the hardiest of all Eucalyptus species, surviving the severe winter temperatures of the Australian Alps. The species regenerates from seed, by epicormic shoots below the bark, and from lignotubers. It is the most cold-tolerant species of eucalyptus.

Many of these trees are growing in close proximity to each other, with interlocking canopies, making photographing individual trees difficult.

The site is partially cleared to gain access to the building and for maintenance access around the building as well.

A walking track traverses the site to the south and is used by people to move through the site to access surrounding lodges, as well as snow play. All trees to the south of this track on the batter, will not be effected by the development, and have not been assessed. These cleared areas are mown regularly, but due to snow cover on the ground it was not possible the view the ground cover at this point in time.

# ADVERTISED PLAN

• Approximate property boundary shown in blue.



Figure 3: Satellite image of . Source VicPlan.

# ADVERTISED PLAN

# ADVERTISED PLAN

## 6. Tree Details

The following table shows all tree data collected during the assessment.

- Street trees and trees on neighbouring properties are shaded grey.
- \* = Multi stemmed tree
- Calculated D.B.H is for multi-stemmed trees only.  $DBH = \sqrt{s1^2 + s2^2 + s3^2 + s4^2 + s5^2}$

**Botanical Name** Common Name Retention Value D.A.R.B (cm) Hazard rating DELWP DBH Calculated D.B.H (cm) Height (m) D.B.H (cm) Comments Width (m) Tree Origin Health U.L.E Structure Age # Eucalyptus Snow Indigenous 42\*45\*25\*48 48 82 80 12 16 Mature Good Fair 40+ High Medium Large, elongated branch 1 growing on the east side pauciflora Gum of the tree over Lodge requires pruning. retained stub on the same leader would benefit from removal. 29\*29 41 12 Semi Eucalyptus Snow Indiaenous 29 48 10 High Fair 20+ High Low Minor deadwood. 2 pauciflora Mature Gum leaning to the northwest. Indigenous 21 21 16 16 High 20+ High Eucalyptus Snow 25 Semi Poor Medium Severe lean to the west 3 pauciflora Gum Mature towards Lodge, no targets under the tree. Epicormic growth along the trunk. 14 14 20+ Eucalyptus Snow Indigenous 16 6 6 Semi High Fair High Low Severe lean of more 4 pauciflora Gum Mature than 45° to the north 14 14 8 Fair 20+ High Lean of approx. 40° to 5 Eucalyptus Snow Indigenous 16 8 Young High Low pauciflora Gum the North. Some retained stubs and minor deadwood Eucalyptus Snow Indigenous 14 14 16 8 8 Semi High Fair 20+ High Low Tree leaning to the north 6 pauciflora Gum Mature approximately 40° Snow Indigenous 11\*08 14 18 7 6 Poor Tree has codominant 7 Eucalyptus 11 Young Low 10+ Medium Low pauciflora Gum trunks with the northern



Tree #	Botanical Name	Common Name	Origin	D.B.H (cm)	DELWP DBH	Calculated D.B.H (cm)	D.A.R.B (cm)	Height (m)	Width (m)	Age	Health	Structure	U.L.E	Retention Value	Hazard rating	Comments
																trunk, mostly dead, lower part alive with epicormic growth tree leaning to the northeast.
8	Eucalyptus pauciflora	Snow Gum	Indigenous	36	36		44	14	10	Mature	High	Fair	40+	High	Low	<ul> <li>Some Deadwood in the upper canopy to approximately 70 mm</li> </ul>
9	Eucalyptus pauciflora	Snow Gum	Indigenous	12*11*08*07*06	12 T	20 his cop fo its part	30 pied docu r the sole conside of a pla	6 umen e pur eratio	6 t to k pose n an	Semi- mature of enablir d review a cess under	Low vailable ig is the	Poor	10+	Low	Low	<ul> <li>Several dead trunks, with epicormic regrowth.</li> <li>excessive Deadwood throughout, leaning to the north-east to the north of the access track.</li> </ul>
10	Eucalyptus pauciflora	Snow Gum	Indigenous	22	22	Planı The de	ning4nd ocument	Eñv mus	irbhr t not	neneperiet 1 be dised fo	9 <del>%</del> l/gh r any	Fair	20+	High	Medium	<ul> <li>Deadwood throughout the tree over access track.</li> </ul>
11	Eucalyptus pauciflora	Snow Gum	Indigenous	26*30	30	40 <sup>pt</sup>	1 pase w	14 copy	righ	Mature	<sup>y</sup> High	Fair	40+	High	Low	<ul> <li>Codominant trunks both with vertical scars on the southern side.</li> <li>some minor Deadwood.</li> </ul>
12	Eucalyptus pauciflora	Snow Gum	Indigenous	37*27*13*15	37	50	80	16	16	Mature	High	Fair	40+	High	Low	<ul> <li>Failed limb, suspended in the canopy tree leaning to the north.</li> </ul>
13	Eucalyptus pauciflora	Snow Gum	Indigenous	16*19	19	25	30	12	9	Semi Mature	Low	Poor	20+	Medium	Medium	<ul> <li>Western leader has hazard beam cracks in some higher branches.</li> </ul>
14	Eucalyptus pauciflora	Snow Gum	Indigenous	45	45		54	16	15	Mature	High	Fair	40+	High	Medium	<ul> <li>Multiple trunks x 4</li> <li>some minor deadwood no real issues</li> </ul>
15	Eucalyptus pauciflora	Snow Gum	Indigenous	18*22	18	28	25	12	10	Mature	Dead	Poor	0	Nil	High	<ul> <li>Tops of both trunks are dead.</li> <li>Deadwood to 100 mm tree, leaning to the north</li> </ul>



Tree #	Botanical Name	Common Name	Origin	D.B.H (cm)	DELWP DBH	Calculated D.B.H (cm)	D.A.R.B (cm)	Height (m)	Width (m)	Age	Health	Structure	U.L.E	Retention Value	Hazard rating	Comments
																and suppress by neighbouring tree to the west.
16	Eucalyptus pauciflora	Snow Gum	Indigenous	33	33	his cor	40	15	14 t to 1	Mature	High	Fair	40+	High	Low	<ul> <li>Codominant trunks at 2 m with some bulging in the fork, but not compressed tree.</li> <li>leaning to the north towards lodge and staircase.</li> </ul>
17	Eucalyptus pauciflora	Snow Gum	Indigenous	22	22	fo	r the sol	e pur	pose	Mature of enablir	High g	Fair	20+	High	Medium	<ul> <li>Dead tree, leaning towards Lodge</li> </ul>
18	Eucalyptus pauciflora	Snow Gum	Indigenous	25	25	its part Plan The do pu	of a plaining and ocument ocument	nning Env mus hich copy	ngn pro- ironr t not may righ	d Mailine a cess under nent Act 1 be used fo breach ar t	<sup>18</sup> High the 987. or any ly	Poor	20+	Medium	Medium	<ul> <li>Large scar and decay on the northwest side of the tree extending up to 1.8 m.</li> <li>Epicormic growth on the northern side at the base of the trunk.</li> <li>some minor deadwood in the upper canopy.</li> <li>numerous pruning events on this tree.</li> </ul>
19	Eucalyptus pauciflora	Snow Gum	Indigenous	15	15		18	10	8	Young	Good	Fair	40+	High	Low	• Tree is leaning more than 45° to the north above neighbouring tree 18.
20	Eucalyptus pauciflora	Snow Gum	Indigenous	10	10		14	4	2	Young	Low	Poor	20+	Low	Low	<ul> <li>Leaning to the north towards the Lodge, some minor deadwood.</li> <li>large scar on the northern trunk, where a branch has been removed causing Cambium dieback</li> </ul>



Tree #	Botanical Name	Common Name	Origin	D.B.H (cm)	DELWP DBH	Calculated D.B.H (cm)	D.A.R.B (cm)	Height (m)	Width (m)	Age	Health	Structure	U.L.E	Retention Value	Hazard rating	Comments
21	Eucalyptus pauciflora	Snow Gum	Indigenous	36*39*40	40	66	78	15	16	Mature	High	Fair	40+	High	Low	<ul> <li>Tree is leaning to the north with epicormic regrowth at the base.</li> </ul>
22	Eucalyptus pauciflora	Snow Gum	Indigenous	43*36*25*38	43	72	118	18	16	Mature	High	Poor	20+	High	High	<ul> <li>Extensive Deadwood with epicormic regrowth.</li> <li>tree leaning at a severe angle growing out of rocks.</li> </ul>
23	Eucalyptus pauciflora	Snow Gum	Indigenous	19	19 T	his cor fo its part	22 pied docu r the sole conside of a pla	8 umen e pur eratio nning	7 t to k pose n an g pro	Semi of enablin d review a cess under	Low vailable ig is r the	Poor	20+	Low	Low	<ul> <li>Tree is weighted and leaning to the north due to being suppressed by larger trees, surrounding it to the south, possibly phototropic.</li> </ul>
24	Eucalyptus pauciflora	Snow Gum	Indigenous	36	36	Plan The do pu	ning9ind ocument irpose w	Hâv mus hich copy	irtØnr t not may rrigh	ndMatauet 1 be used fo breach an t	98tīgh or any ty	Fair	40+	High	Low	<ul> <li>The southwestern trunk has a codominant fork at 2 m. I would recommend the western branch on that fork be weight reduced.</li> <li>Large piece of deadwood on the western side and eastern stub should be removed</li> </ul>
25	Eucalyptus pauciflora	Snow Gum	Indigenous	19*34*38*41	41	68	80	18	18	Mature	High	Fair	40+	High	Medium	<ul> <li>Lean to the northwest.</li> <li>large dead, stub, and epicormic growth.</li> </ul>
26	Eucalyptus pauciflora	Snow Gum	Indigenous	21	21		25	7	3	Mature	Low	Very Poor	<5	Nil	Medium	<ul> <li>Leaning to the north, suppress by large tree, minor deadwood.</li> <li>previous pruning done.</li> </ul>

Table 1: Tree Data

# ADVERTISED PLAN

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

## 6.1 TPZ & SRZ Calculations

The following table shows the TPZ and SRZ calculations for the Twenty-six (26) subject trees.

- All distances are measured from the centre of the trunk.
- Street trees and offsite/neighbouring trees are shaded grey.

Tree #	I.D	TPZ radius (m)	SRZ radius (m)	Total TPZ Area (sqm)	Comments
1	Eucalyptus pauciflora	9.84m	3.01m	304.19m2	Major combined encroachment of 51.54% from building and path construction.
2	Eucalyptus pauciflora	4.92m	2.43m	76.05m2	Major encroachment with proposed new path of 14.52%
3	Eucalyptus pauciflora	2.52m	1.85m	19.95m2	Minor encroachment 6.39%
4	Eucalyptus pauciflora	2m	1.53m	12.57m2	No encroachment
5	Eucalyptus pauciflora	2m	1.53m	12.57m2	No encroachment
6	Eucalyptus pauciflora	2m	1.53m	12.57m2	No encroachment
7	Eucalyptus pauciflora	2m	1.61m	12.57m2	No encroachment
8	Eucalyptus pauciflora	4.32m	2.34m	58.63m2	No encroachment
9	Eucalyptus pauciflora	2.4m	2.34m	18.1m2	No encroachment
10	Eucalyptus pauciflora	2.64m	2.34m	21.9m2	No encroachment
11	Eucalyptus pauciflora	4.8m	2.67m	72.38m2	No encroachment
12	Eucalyptus pauciflora	6m	3.01m	113.1m2	No encroachment
13	Eucalyptus pauciflora	3m	2m	28.27m2	No encroachment
14	Eucalyptus pauciflora	5.4m	2.55m	91.61m2	No encroachment
15	Eucalyptus pauciflora	3.36m	1.85m	35.47m2	No encroachment
16	Eucalyptus pauciflora	3.96m	2.25m	49.27m2	No encroachment
17	Eucalyptus pauciflora	2.64m	1.79m	21.9m2	No encroachment
18	Eucalyptus pauciflora	3m	1.91m	28.27m2	No encroachment
19	Eucalyptus pauciflora	2m	1.61m	12.57m2	No encroachment

Tree #	I.D	TPZ radius (m)	SRZ radius (m)	Total TPZ Area (sqm)	Comments
20	Eucalyptus pauciflora	2m	1.5m	12.57m2	No encroachment
21	Eucalyptus pauciflora	7.92m	2.98m	197.06m2	Minor encroachment of 5.6%
22	Eucalyptus pauciflora	8.64m	3.55m	234.52m2	No encroachment
23	Eucalyptus pauciflora	2.28m	1.75m	16.33m2	No encroachment
24	Eucalyptus pauciflora	4.32m	2.23m	58.63m2	No encroachment
25	Eucalyptus pauciflora	8.16m	3.01m	209.18m2	Existing major encroachment of 29.4%
26	Eucalyptus pauciflora	2.52m	1.85m	19.95m2	Existing major encroachment of 40.3%

#### 6.1 Discussion

This copied document to be made availableDavid Kuronya attended Corio Skif@iub/e@@elatine@sarv@email@iuler Vic 3723 on the 17th of July<br/>its consideration and review as<br/>,2023 and accessed the tweenty-six f261 subjecting splaces signader the<br/>Planning and Environment Act 1987.3723 on the 17th of July<br/>its consideration and review as<br/>puppose which may breach any<br/>In general, their health and<br/>vigour is high, with the sare leaning primarily to the north, with<br/>moderately full canopies, some containing minor to moderate deadwood which is typical for this<br/>species. See comments 6. Tree Details – Tree Data Table.

Most of the trees are not directly affected by the proposed development of Corio Ski Club these include trees 4 ,5, 6, 7, 8,9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23 & 24.

Of the twenty-six (26) subject trees only two (2) have minor encroachment these include trees 3 with 6.39% and tree 21 with 5.6%.

Four (4) trees are directly impacted by the proposed development with major encroachments into their TPZ's these are T1, T2, T25 & T26. Care will need to be taken along with some remedial works to ensure the trees remain viable.



**ADVERTISED** 

PLAN

## 7. Conclusion

Of the twenty-six (26) subject trees assessed four (4) are directly affected by the proposed development. These include T1, T2, T25 & T26.

#### 7.1 Major Encroachment

T1 was identified as *Eucalyptus pauciflora – Snow Gum*.

T1 presented in good health and vigour, with fair structure.



Figure 4 and 5 Shows T1 and overextended branch over lodge.

T1 contains multiple trunks x 3, and has a large, overextended branch to the west growing directly over the roof of the lodge. At present the tree is located only 4.7m from the SE corner of the lodge, with the eastern trunk located directly on the eastern boundary of the site.

With the construction of the proposed new front entrance and access path, a major combined encroachment into the trees TPZ of 51.54% could occur. However, the proposed new access path will be constructed with tree sensitive methods such as "bark" laid on the ground surface which will help reduce compaction from pedestrians and will negate the need to excavate soil completely, so no root damage will occur.

If this were to occur the reduced encroachment into the trees TPZ would be 35.76%. There is already a major encroachment due to the current building and pathway, therefore care will need to be taken not to impact the tree any more than necessary.

Remedial works and pruning may be required to ensure T1 remains viable.

T2 was identified as *Eucalyptus pauciflora – Snow Gum.* 



T2 presented in high health and vigour, with fair structure.



Figure 6 T2 to the south of the proposed new access path.

T2 contains minor deadwood and is leaning to the north. It is situated just off site over the eastern boundary. There will be a major encroachment of 14.52% into its TPZ, due to the new access path

however I believe the tree can still remain viable for the following reasons: the path will be constructed with tree sensitive methods such as "bark" laid on the ground surface which will help reduce compaction from pedestrians and will negate the need to excavate soil completely, so no root damage will occur.

There is also sufficient room for the roots to expand to the south and west continuous with the existing root system.

#### T25 was identified as *Eucalyptus pauciflora – Snow Gum*.

T25 presented in high health and vigour, with fair structure.

T25 is located on the eastern side of the lodge between the existing veranda and staircase. The tree is leaning to the northwest, with some branches over hanging the lodge. Some deadwood persists, throughout the tree but nothing major.

An existing major encroachment of 29.4% already exists. The new proposed works will not encroach anymore into the trees TPZ, however care will need to be taken during works so the tree is not damaged, especially the tree's trunk and root system. Some remedial pruning is required to ensure the tree remains viable.

> This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

# ADVERTISED PLAN



Figure 7 T25 eastern side of lodge.





T26 presented in low health and vigour, with very poor structure.

Figure 8 T26 with Nil retention value.

T26 upper canopy is completely dead, with only a narrow strip of conductive tissue being alive on the north side, of the trunk. There are also small epicormic shoots present, which indicates this tree is under stress. Signs have been attached to the tree.



The tree has been severely impacted already by development, and any further disturbance possibly would lead to this tree's death. T26 has Nil retention value and is not worthy of being a constraint to a development design proposal.

#### 7.2 Minor Encroachment

Two (2) trees will incur minor encroachments of less than 10%, and therefore these trees will remain viable as long as care is taken during construction. The two trees are T3 and T21.

#### T3 was identified as *Eucalyptus pauciflora – Snow Gum*.

T3 presented in high health and vigour and poor structure.

The tree has a severe lean to the northwest towards Lodge. Some minor deadwood and epicormic growth along the trunk are present.

A minor encroachment of 6.39% will occur due to the construction of the proposed new access path, however I believe the tree can still remain viable for the following reasons: the path will be constructed with tree sensitive methods such as "bark" laid on the ground surface which will help reduce compaction from pedestrians and will negate the need to excavate soil completely, so no root damage will occur.

There is also sufficient room for the roots to expand to the south and west continuous with the existing root system.

Some remedial pruning would be a benefit to the tree, as it will be directly over the new access path into the main entrance of the lodge.

# ADVERTISED PLAN



Figure 9 T3 leaning to the north, directly over the proposed new path.



#### T21 was identified as *Eucalyptus pauciflora – Snow Gum.*

T21 presented in high health and vigour and fair structure.

The tree is weighted and leaning to the north due to being suppressed by larger trees, surrounding it to the south, and possibly phototropic leaning out to the north in search of more available light. There will be a minor encroachment of 5.6%, which is preexisting due to the current building.

Care will need to be taken not to encroach any further and cause damage to the tree.



Figure 10 T21 located on the northeast corner of the lodge.

All other trees onsite are not directly affected by the proposed development with all works being outside their TPZ's and SRZ's.



Corio Ski Club

## 8. Recommendations



It is the developer's intention to avoid any tree removal, and to minimise the impact on the subject trees by employing tree sensitive construction methods, such as using 'mulch or bark' to create an informal access path into the lodge.

This will negate the need to do any earthworks, such as leveling the site and digging holes for footings, which will mean no root damage to T1, T2 & T3. The mulch or bark will also help reduce compaction from pedestrian traffic, hold moisture and add nutrient into the soil.

It is recommended that this mulch be laid to a depth of 100mm, and periodically 'topped up', to ensure its effectiveness.

The Australian Standard AS4970-2209 Protection of trees on development sites states that if there is more than a 10% encroachment then the tree is deemed lost, however this is a general recommendation and not a specification. The tree species, location, soil type and available water all need to be taken into consideration in each instance. This copied document to be made available for the sole purpose of enabling tolerant of incursions of more than 10% if there is enough area to its consideration and review as increase the TPZ in other directions for its is planning and Environment Act 1987. more than adequate room to allow for incursions of more than appendix or there directions, especially with the tree sensitive access path Public Water and Environment Act 1987 is root systems. copyright

#### T1 was identified as *Eucalyptus pauciflora – Snow Gum*.

A major encroachment of 35.76%, will occur with the proposed development, and to reduce the impacts of these works it is recommended that any roots revealed during excavation within the TPZ are to be pruned in accordance with AS4372-2007 Pruning of Amenity Trees by a qualified arborist using clean sharp hand tools.

To compensate for the loss of root mass it is recommended that Canopy Reduction Pruning is done as per the (Australian Standard 4373-2007 Pruning of Amenity Trees Clause 7.3.2 Reduction Pruning). This is to be done by pruning the ends of the branches back to internal lateral branches or stems, by approx. 10 to 15%, with no cuts larger than approx. 75mm. Especially the overextended branch, to the west growing directly over the roof of the lodge, which should be reduced back to the lowest available growth point, as soon as possible.

#### Corio Ski Club

• The trunk and branches of the tree need to be protected from mechanical damage during excavation and erecting of scaffold. This can be done by placing strips of styrofoam packaging and bubble wrap around the tree's trunk and branches that may be damaged, and tying or taping them in place for the duration of the works and removed after the site is reinstated. This protection must be at least 25mm thick and extend to ground level.

• Either fence off around the tree with barrier webbing or lay down mulch to a depth of 75mm to prevent compaction of the soil, (due to the uneven ground and rocks it may be impracticable to lay boards on top of the mulch for added protection). This is to be installed out to the end of the trees TPZ where practical.

• Use non-destructive methods to dig out the footings, such as hand digging, or an air shaped, and direct pipes under the tree's roots where practicable.

- If roots are to be cut then it must be done with a suitably shape tool such as a secateurs, sharp axe or saw, no roots are to be torn or broken off. If this occurs, then the roots must be trimmed back to clean sound undamaged material and would be best done under a qualified Arborists direction.
   This copied document to be made available for the sole purpose of enabling its consideration and review as
- Any roots that are exposed must be anning of fighting put, during construction, and if construction takes some time, then the poots must be covered which jute matting or mulch until the document must not be used for any purpose which may breach any copyright
- Once construction is completed back fill the excavations and mult haround the tree to a depth of 75mm, out past the tree's dripline, and keep moist.



T1 - Approx location of pruning.

# ADVERTISED PLAN

#### T2 was identified as *Eucalyptus pauciflora – Snow Gum*.

A major encroachment of 14.52%, will occur with the proposed development, and to reduce the impacts of these works it is recommended that any roots revealed during excavation within the TPZ are to be pruned in accordance with AS4372-2007 Pruning of Amenity Trees by a qualified arborist using clean sharp hand tools.

To compensate for the loss of root mass it is recommended that Canopy Reduction Pruning is done as per the (Australian Standard 4373-2007 Pruning of Amenity Trees Clause 7.3.2 Reduction Pruning). This is to be done by pruning the ends of the branches back to internal lateral branches or stems, by approx. 10 to 15%, with no cuts larger than approx. 50mm. Especially the overextended trunk over the proposed new access path.

• The trunk and branches of the tree need to be protected from mechanical damage during excavation and erecting of scaffold. This can be done by placing strips of styrofoam packaging and bubble wrap around the tree's trunk and branches that may be damaged and tying or taping them in place for the duration of the works the selen protect of the bling reinstated. This protection must its consideration and review as be at least 25mm thick and extend to graph and the selen process under the

Planning and Environment Act 1987.

• Either fence off around the dreen with barsien of debing of day adown mulch to a depth of 75mm purpose which may breach any to prevent compaction of the soil, (due to the unevery ground and rocks it may be impracticable to lay boards on top of the mulch for added protection). This is to be installed out to the end of the trees TPZ where practical.

• Any roots that are exposed must be protected from drying out, during construction, and if construction takes some time, then the roots must be covered which jute matting or mulch until completion of the job.

• Once construction is completed back fill the excavations and mulch around the tree to a depth of 75mm, out past the tree's dripline, and keep moist.



#### T25 was identified as *Eucalyptus pauciflora – Snow Gum.*

A major encroachment of 29.4%, will occur with the proposed development, and to reduce the impacts of these works it is recommended that any roots revealed during excavation within the TPZ are to be pruned in accordance with AS4372-2007 Pruning of Amenity Trees by a qualified arborist using clean sharp hand tools.

To compensate for the loss of root mass it is recommended that Canopy Reduction Pruning is done as per the (Australian Standard 4373-2007 Pruning of Amenity Trees Clause 7.3.2 Reduction Pruning). This is to be done by pruning the ends of the branches back to internal lateral branches or stems, by approx. 10 to 15%, with no cuts larger than approx. 75mm. Especially the overextended trunk over the proposed new access path.

• The trunk and branches of the tree need to be protected from mechanical damage during excavation and erecting of scaffold. This can be done by placing strips of styrofoam packaging and bubble wrap around the tree's trunk and branches that may be damaged, and tying or taping them in place for the duration of the works and removed after the site is reinstated. This protection must be at least 25mm thick and extend to ground level.

• Either fence off around the tree with barrier webbing or lay down mulch to a depth of 75mm to prevent compaction of the soil, (due to the uneven ground and rocks it may be impracticable to lay boards on top of the mulch for added protection). This is to be installed out to the end of the trees TPZ where practical.

• Use non-destructive methods to dig out the trench and footing, such as hand digging, or an for the sole purpose of enabling under the trench and footing, such as hand digging, or an air shaped, and direct pipes under the trench and footing process under the

• If roots are to be cut ther it must be cone with a suitably shape tool such as a secateurs, sharp axe or saw, no roots are to be trimed back to clean sound undamaged material and would be best done under a qualified Arborists direction.

• Any roots that are exposed must be protected from drying out, during construction, and if construction takes some time, then the roots must be covered which jute matting or mulch until completion of the job.

• Once construction is completed back fill the excavations and mulch around the tree to a depth of 75mm, out past the tree's dripline, and keep moist.



#### T26 was identified as *Eucalyptus pauciflora – Snow Gum.*

Tree has been severely impacted already by development, and any further disturbance possibly would lead to this tree's death. T26 has Nil retention value and is not worthy of being a constraint to a development design proposal.

Remove T26 completely.

There are several trees with branches and trunks that are close the existing veranda, these trees must be protected during scaffolding and construction.

The trunk and branches of these trees need to be protected from mechanical damage during erecting of scaffold and construction. This can be done by placing strips of styrofoam packaging and bubble wrap around the tree's trunk and branches that may be damaged, and tying or taping them in place for the duration of the works and removed after the site is reinstated. This protection must be at least 25mm thick.

#### T3 & T21 were both identified as *Eucalyptus pauciflora – Snow Gum.*

As the encroachment of both these trees is less than 10%, the trees should remain viable after the development of the lodge is completed.

Care will need to be taken curing construction to prevent soil compaction This copied document to be made available to the tree's trunk and branches, The following recommendations must be carried out. its consideration and review as

• The trunk and branches of the free lae it goto prostected from mechanical damage during Planning and Environment Act 1987. excavation and erecting of scaffeld doclinent must not be used for any of styrofoam packaging and bubble wrap around the tree's trunk and for the maximum of the dome by placing of any of styrofoam packaging and copyright in place for the duration of the works and removed after the site is reinstated. This protection must

be at least 25mm thick and extend to ground level.

• Either fence off around the tree with barrier webbing or lay down mulch to a depth of 75mm to prevent compaction of the soil, (due to the uneven ground and rocks it may be impracticable to lay boards on top of the mulch for added protection). This is to be installed out to the end of the trees TPZ where practical.

#### 8.1 Protection Methods During Construction



To maintain viability of the trees on site.

a. Prior to the commencement of the site's excavation, temporary protection fencing is to be installed around the TPZ of the Trees where practicable. At the very least steel pickets with barrier mesh or tape must be installed at the minimal recommended distance from the tree.

b. Any roots revealed during all excavation within the TPZ of the retained trees are to be pruned in accordance with AS4372-2007 Pruning of Amenity Trees by a qualified arborist using clean sharp hand tools.

ADVERTISED

PI AN

Activities listed below should be excluded from the TPZ, but not limited to it.

- Machine excavation including trenching
- Excavation for silt fencing
- Cultivation
- Storage
- Preparation of chemicals, including preparation of cement products
- Parking of vehicles and plant
- Refuelling
- Dumping of waste
- Wash down and cleaning of equipment
- Placement of fill
- Lighting of fires
- Soil level changes
- Temporary or permanent installation of utilities and signs, and
- Physical damage to the tree.



Figure 11 Source AS4970-2209 Protection of trees on development sites.



Figure 12 TPZ Diagram.

## 9. References

All photos taken by D Kuronya

Australian Standard AS 4373-2007, Pruning of amenity trees.

Australian Standard AS4970-2209 Protection of trees on development sites.

https://mapshare.vic.gov.au/vicplan/

## ADVERTISED PLAN

10. Glossary

Glossary of Terms

#### **Arboricultural Value**

The Arboricultural value is given according to the health, structure, form, and useful life expectancy. It only relates to the physical condition of the tree.

Note: Trees may be given a low arboricultural and landscape value but have a high retention value due to an adjoining property or road reserve location.

	This copied document to be made available
High Arboricultural	Gooស៊ីទីស៊ីមិទីដាំព្រៃខ្លងដែរស្រីទទួលការដាំងទំនួកលេះture with a life expectancy
Value	greater than 20 years and review as part of a planning process under the lapdscape and Environment Act 1987.
	The document must not be used for any
Medium Arboricultural	Gooptoyersellering and a structure with a life expectancy
Value	between 10 – 20pyezebtand can improve with sound cultural
	practices.
Low Arboricultural	Poor overall health, vigour, and structure with a life expectancy
Value	of fewer than ten years will not improve with time.

#### Age Class

Age Most trees have a stable biomass for the major proportion of their life. The estimation of the age of a tree is based on the knowledge of the expected lifespan of the taxa in situ divided into three distinct stages of measurable biomass, when the exact age of the tree from its date of cultivation or planting is unknown and can be categorized as Young, Mature and Over-mature.

Young	Tree aged less than <20% of life expectancy, in situ.
Mature	Tree aged 20-80% of life expectancy, in situ.
Over-Mature	Tree aged greater than >80% of life expectancy, in situ, or senescent with or without reduced vigour, and declining gradually or rapidly but irreversibly to death.

#### **Calculated DBH**

Used to calculate the total DBH for multi-stemmed trees only. Formula used:  $DBH = \sqrt{s1^2 + s2^2 + s3^2 + s4^2 + s5^2}$ 



#### Condition

Condition A tree's crown form and growth habit, as modified by its environment (aspect, suppression by other trees, soils), the stability and viability of the root plate, trunk and structural branches (first (1st) and possibly second (2nd) order branches), including structural defects such as wounds, cavities or hollows, crooked trunk or weak trunk/branch junctions and the effects of predation by pests and diseases. These may not be directly connected with vigour, and it is possible for a tree to be of good vigour but in poor condition. Condition can be categorized as Good Condition, Fair Condition, Poor Condition and Dead.

Good Condition	Tree is of good habit, with crown form not severely restricted for space and light, physically free from the adverse effects of predation by pests and diseases, obvious instability or structural weaknesses, fungal, bacterial or insect infestation and is expected to continue to live in much the same condition as at the time of inspection provided conditions around it for its basic survival do not alter greatly. This may be independent from or contributed to by vigour. This copied document to be made available
Fair Condition	Tree is of food that the investment of the provided that the provided the provided that the provided that the provided that the provided the provided the provided the provided that the provided the provide
Poor Condition	Tree is of good habit or misshapen, a form that may be severely restricted for space and light, exhibits symptoms of advanced and irreversible decline such as fungal, or bacterial infestation, major die- back in the branch and foliage crown, structural deterioration from insect damage e.g. termite infestation, or storm damage or lightning strike, ring barking from borer activity in the trunk, root damage or instability of the tree, or damage from physical wounding impacts or abrasion, or from altered local environmental conditions and has been unable to adapt to such changes and may decline further to death regardless of remedial works or other modifications to the local environment that would normally be sufficient to provide for its basic survival if in good to fair condition. Deterioration physically, often characterised by a gradual and continuous reduction in vigour but may be independent of a change in vigour, but characterised by a proportionate increase in susceptibility to, and predation by pests and diseases against which the tree cannot be sustained. Such conditions may also be evident in trees of advanced senescence due to normal

	phenological processes, without modifications to the growing environment or physical damage having been inflicted upon the tree. This may be independent from or contributed to by vigour.
Dead	Tree is no longer capable of performing any of the following processes or is exhibiting any of the following symptoms. Processes Photosynthesis via its foliage crown (as indicated by the presence of moist, green or other coloured leaves). Osmosis (the ability of the root system to take up water); Turgidity (the ability of the plant to sustain moisture pressure in its cells); Epicormic shoots or epicormic strands in Eucalypts (the production of new shoots as a response to stress, generated from latent or adventitious buds or from a lignotuber) Symptoms Permanent leaf loss. Permanent wilting (the loss of turgidity which is marked by desiccation of stems leaves and roots); Abscission of the epidermis (bark desiccates and peels off to the beginning of the sapwood).

This copied document to be made available	
its consideration and review as	
part of a planning process under the	
Planning and Environment Act 1987.	

#### Decurrent

Tree form which develops when the data and have be used for any shoot. This results in a tree with a broad spreading form and multiple trunks.

#### Defect

An injury, growth pattern/habit, decay or other conditions that may reduce the tree's structural integrity or affect its health.

#### Diameter at Breast Height (DBH)

The trunk diameter measured at 1.4m above ground level determined from the circumference of the trunk divided by  $pi(\pi)$ .

#### **Diameter at Root Buttress (DARB)**

The trunk diameter measured from the point at which the tree's root buttressing/flare initiates.

#### Dieback

The progressive death of shoots or roots starting at the extremities.

#### **Dynamic Load**

A force created by a moving load or a load that changes with time and/or motion.

#### Encroachment

An incursion into a tree's TPZ from a proposed development or existing structure or buildings.

#### **Energy Production**

The production of energy resulting from photosynthetic material that converts sunlight into carbohydrates and oxygen which is then used for tree growth, root development, root exudates for soil associates, reproduction, storage and defence.

#### Excurrent

Tree form which develops when a dominant leading shoot outgrows the lateral branches. This results in a narrow, cone-shaped crown with a clearly defined central trunk.

#### Form

Good	A tree with a typical canopy shape for its species.	
Fair	A tree with a canopy presenting with signs of an altered shape such as a	
	minor canopy bias, previous pruning or phototropic growth habit.	
Poor	A tree with a significantly atypical or altered shape.	

#### Vigour

Vigour Ability of a tree to sustain its life processes. This is independent of the condition of a tree but may impact upon it. Vigour can appear to alter rapidly with change of seasons (seasonality) e.g. dormant recidues or semi-deciduous trees. Vigour can be categorized as Good Vigour, High Vigour, Low Vigour and Dormant Tree Vigour.

Good Vigour	Ability of a treet or main tail and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and support and rest to bredation. This is
	independent of the condition of a tree but may impact upon it, and especially the ability of a tree right ustain itself against predation.
High Vigour	Accelerated growth of a tree due to incidental or deliberate artificial changes to its growing environment that are seemingly beneficial, but may result in premature aging or failure if the favourable conditions cease, or promote prolonged senescence if the favourable conditions remain, e.g. water from a leaking pipe; water and nutrients from a leaking or disrupted sewer pipe; nutrients from animal waste, a tree growing next to a chicken coop, or a stock feed lot, or a regularly used stockyard; a tree subject to a stringent watering and fertilising program; or some trees may achieve an extended lifespan from continuous pollarding practices over the life of the tree.
Low Vigour	Reduced ability of a tree to sustain its life processes. This may be evident by the atypical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their functions with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation.
Dormant Tree Vigour	Determined by existing turgidity in lowest order branches in the outer extremity of the crown, with good bud set and formation, and where the last extension growth is distinct from those most recently preceding it, evident by bud scale scars. Good vigour during dormancy is achieved

when such growth is evident on a majority of branches throughout the
crown.

#### Periods of Time

Periods of Time The life span of a tree in the urban environment may often be reduced by the influences of encroachment and the dynamics of the environment and can be categorized as Immediate, Short Term, Medium Term and Long Term.

**Short Term** - A period of time less than <1 – 15 years.

**Medium Term** - A period of time 15 – 40 years.

**Long Term** - A period of time greater than >40 years.

#### Load

A term used to indicate the magnitude of a force.



The indiscriminate cutting of a tree to reduce its size. (Not regarded as an acceptable practice and does not comply with AS4373-2007 '*Pruning of Amenity Trees*').

#### **Nutrient Uptake**

The process in which a tree captures elements that are essential for growth.

Nutrients Molecules that a	all organis	This copied document to be made available for the sole purpose of enabling ms ne <del>its tonsidkeacion gyd growydes</del> velop a	nd reproduce.
Origin		part of a planning process under the Planning and Environment Act 1987.	
Indigenous	A specie no huma	a free document must not be used for any s found in a specific region as a result of o purpose which may breach any in intervention. copyright	nly natural process with
Native	A specie	s found in a broader region or country.	
Exotic	A specie	s that is native to a country other than Au	stralia.

#### Pathogen

A bacterium, virus or other microorganism that can cause disease or infection.

#### Percentage (%) Encroachment

The calculated level of encroachment into a tree's TPZ.

#### **Primary Disorder**

An initial, inhibiting or abnormal condition that impairs the performance of one or more vital functions of a tree.

#### Pruning

The process of removing branches or occasionally roots from a tree using approved arboricultural practices, to achieve a specified objective.

#### Secondary Disorder

A disorder that develops after a tree is stressed by a primary disorder.

ADVERTISED

ρι ΔΝ

#### Significance/Retention Value

High	A mature tree that contributes positively to a site due to its botanical, historical or local significance in combination with good physiological characteristics such as health, form, structure and future development. Significant efforts should be made to retain this tree and it should be considered for retention within a proposed development.
Medium	A semi-mature to mature tree which exhibits fair or good characteristics
	of health, structure or form and/or may provide some amenity value to
	if possible within a development design proposal and may be modified to
	allow for construction (eg. canony pruning root pruning etc)
	A tree that provides minimal contribution to the surrounding landscape
	and/or may be in poor or declining health. This tree may have a poor
Laur	structure, poor form, be a noxious/poisonous or listed weed species or a
Low	combination of these characteristics. It may be in an inappropriate
	location. This tree is not worthy of being a constraint to a development
	design proposal.
Nil	A tree with no landscape significance and its retention is inappropriate.
	The removal of this tree would be of benefit to the landscape.

#### Signs

This copied document to be made available

Objective physical evidence of a causabagent (ageinseabagg, borer holes, frass).

#### Soil Compaction

its consideration and review as part of a planning process under the

The compression of soil resulting in reduced the macroport space and soil volume. This restricts the infiltration of water through the soil profile, impedes the efficiency of nutrient and water uptake, restricts new root development and root exploration and impedes gaseous exchange between root cells and the atmosphere.

#### Static Load

A constant load exerted by a mass due to its weight.

#### Strain

The extent to which a material deforms under an applied force or stress.

#### Stress

A factor that negatively affects the health of a tree and stimulates a physiological response.

#### Structural Root Zone (SRZ)

The area around the base of a tree required for stability in the ground. Woody root growth and soil cohesion in this area are necessary to hold the tree upright. The SRZ is normally circular with the trunk at its centre and is expressed by its radius in metres. This zone considers a tree's structural stability only and not the root zone required to maintain vigour and long-term viability. (*AS4970-2009 Protection of Trees on Development Sites*).

Formula Used: SRZ radius =  $(D \times 50)^{0.42} \times 0.64$ 

DKTC Arboricultural Impact Assessment V1 – 6 Delatite Lane Mt Buller

ADVERTISED

PLAN

D = Trunk Diameter, in meters, measured above the root buttress.

#### Structure

Good	A tree with structure that is typical of its species with no defects such as decay, included bark, cracks, splits, tears outs. Generally, with a single defined trunk with secondary limbs presenting with good attachments.
Fair	A tree with minor defects in its canopy but is generally free of any significant structural issues. Pruning may be required to fix minor defects. Its canopy will mostly be symmetrical and typical of its species.
Poor	A tree presenting with 1 or more defects such as included bark, co- dominant stems, poor attachments and may also have an atypical or asymmetrical canopy. The defects may be able to be rectified with pruning.
Very Poor	A tree with significant defects related to its primary stem or secondary scaffold limbs that cannot be rectified with pruning or other measures. This removal of this tree may be required in the short term.
Hazardous	A tree with major defects that is likely to fail and should be removed as soon as possible.

#### Symptoms

This copied document to be made available Subjective reactions to a disease on bisonder (egswilting, dieback, defoliation).

its consideration and review as

## Tree Protection Zone (TPZ) part of a planning process under the

A specified area above and below ground and at a given distance from the centre of the trunk set aside for the protection of a trees roots and crown to provide for the viability and stability of a tree to be retained where it is not eating the subject to damage by development. (AS4970-2009 Protection of Trees on Development Sites).

Formula Used: TPZ radius = DBH x 12

# **ADVERTISED** PLAN

#### Useful Life Expectancy (ULE)

0 years	A dead, dying or dangerous tree with significant defects, poor health or
	requires removal in the short term.
<5 years	A poor example of the species that is in decline or will likely die or
	requires removal within 5 years.
5-10 years	A tree in fair condition that contributes to the amenity of the landscape
	in which it is growing, can be retained with a tolerable level of
	management.
10-20 years	A tree in fair-good condition that contributes to the amenity of the
	landscape in which it is growing and can be retained with an appropriate
	level of management.
>20 years	A healthy tree in good condition that will contribute to the amenity of
	the landscape in which it is growing for at least another 20 years with an
	appropriate level of management.

#### Vigour

The overall health, condition and resilience of a tree, reflected in the ability of the whole tree to grow.

#### Work(s)

Any physical activity in relation to land that is specified by the determining authority.

#### Wound Response

New wood developing in response to a wound.

#### Woundwood

Strong woody tissue that grows behind a callus which replaces it in that location. Woundwood closes wounds, then normal wood continues to form. After wounding, a callus forms around the margins of the wound. Woundwood forms later as the cells become lignified. It is not meristematic but is high in lignin.

# END OF REPORT ADVERTISED 11. Disclaimer 11.1 Assumptions and Limitinfor the sole purpose of enabling its consideration and review as

part of a planning process under the

- 1. Every reasonable effort has been and correct. However, the author canned guarant even a score of mission provided by others. purpose which may breach any
- 2. The loss, damage, or alteration of any may right his report will render the entire report void.
- **3.** Any maps, graphs, diagrams, or sketches contained in this report have been provided as a visual aid only. They have not necessarily been drawn to scale.
- **4.** While this report has been prepared under a contractual arrangement, it has been prepared with neutral and unbiased opinions based on the views of the author and scientific fact. These opinions are not influenced by financial incentives.
- 5. Every reasonable effort has been made to provide accurate information on the subject of this report based on research and studies available at the time of publication. However, as the subject often involves natural, biological organisms, it is not possible to cover all potential outcomes.
- **6.** The information contained in this document is based on information collected at the precise date and time stated. Any changes occurring since will not form part of this report.
- This report has been developed specifically for use by the client for the purposes stated. Responsibility will not be accepted for use by parties other than those stated, or for purposes other than those stated
- **8.** This report has been prepared on the facts requested or required. Other facts in relation to the subject trees may not be included in this report.

- **9.** This report, or part thereof, shall not be copied or publicised without the authority of the author.
- **10.** The author shall not be required to appear as an expert witness by reason of this report without subsequent contractual arrangements, including the payment of an additional charge for such services.

#### 11.2 Declaration

I have made all the inquiries that I believe are desirable and appropriate and that no matters of significance which I regard as relevant have to my knowledge been withheld.

# ADVERTISED PLAN

## Appendix 1: Tree Photos

Tree #1



DKTC Arboricultural Impact Assessment V1 – 6 Delatite Lane Mt Buller



DKTC Arboricultural Impact Assessment V1 – 6 Delatite Lane Mt Buller





DKTC Arboricultural Impact Assessment V1 – 6 Delatite Lane Mt Buller

Page 44

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

# ADVERTISED PLAN