

Tree Assessment

Taris site

Falls Creek

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18 November 2024

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Prepared for:

Andy Mero
SendIt
Architecture
andy@sendit.archi
0409 544 004

Prepared by:

Ben Truran
Dip Hort (Arb)
Tru Tree Care
ben@trutreecare.com.au
0409958591

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Method:

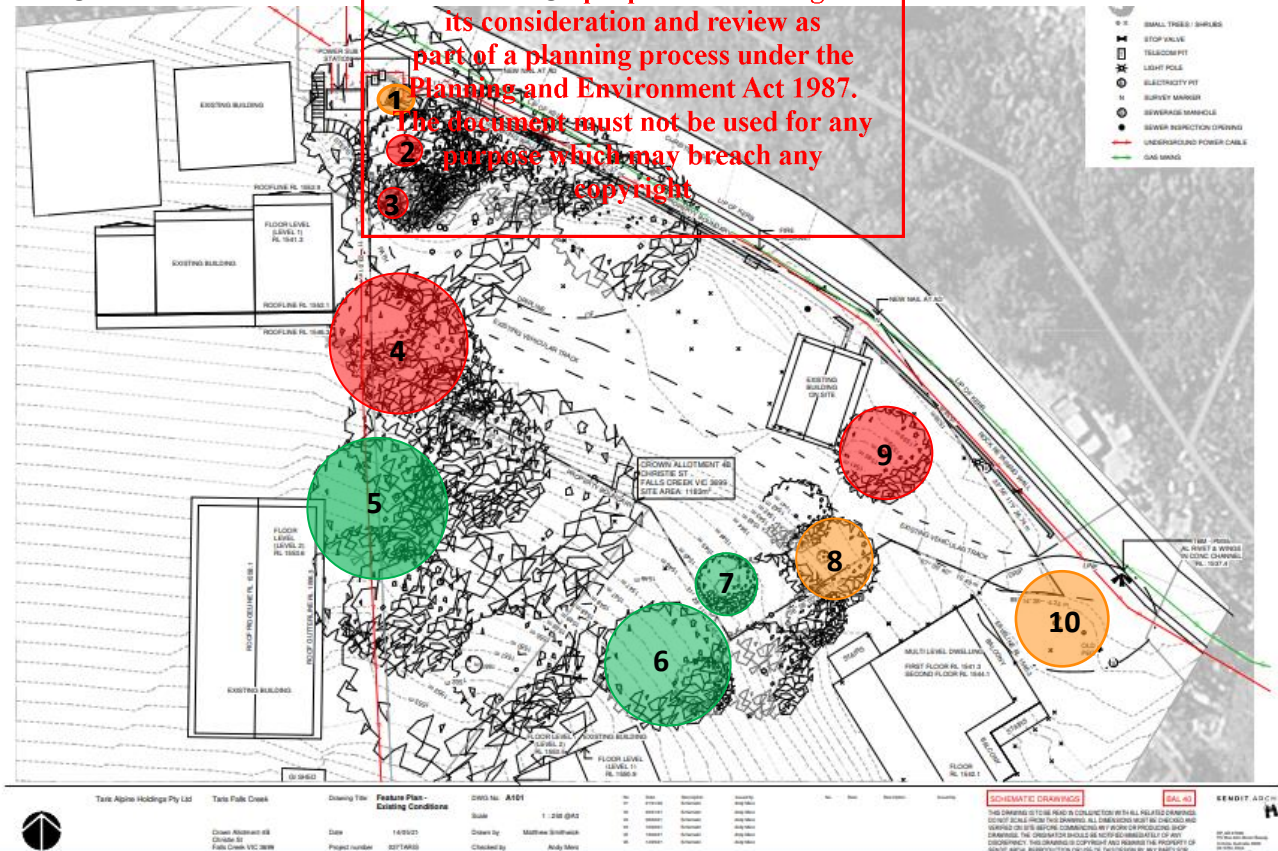
A site meeting was conducted with Andy on Tuesday the 29th of June with an aerial site plan image to discuss required removals for building and the approximate extent of the site. Trees with stems larger than 40cm DBH were identified by Biosis in their survey and a map (appendix 1) and tree retention status table was provided as well as drawings of the site with trees mapped and with proposed building.

The identified significant trees were then measured. The tree protection zones (TPZ) and structural root zones (SRZ) were calculated for each tree using TreeTec’s online calculator, which is based on guidelines from AS4970 – 2009 Protection of trees on development sites. The building and excavation works as described by the drawings and by Andy on site were then approximated, and the impact on the trees was gauged.

The site:

The site has had a driveway and site cut done historically and is partially cleared with remnant *Eucalyptus pauciflora ssp. hedraia* existing as individual trunks, as well as multi-stemmed clumps, around the established building site. A small building currently exists, and the site is elevated above the road. Most of these trees are atop the existing site cut or growing in the bank below the existing cut, with many leaning over the road.

The site is shown below with vegetation cover mapped out. Trees identified as having stems 40cm dbh or larger are indicated colour coded according to their status of retention.




- trees to be removed
- trees to be retained unless they are impacted in a manner unclear from description of works
- trees to be retained


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Potentially impacted trees

Tree number	1	
Species	<i>Eucalyptus pauciflora ssp. hedraia</i>	
Height (estimated m)	18	
DBH (cm) Caliper at ground level	59 102	
Health	Good	
Structure	Fair	
Faults	Multi stemmed	
Tree protection zone (TPZ) Structural Root Zone (SRZ)	7.08m 3.44m	
Impact from development	Excavation for rock wall will affect approx. 4% of TPZ	
Recommendation	Retained if TPZ incurs to be required and 10% of the Arborist should be present for excavation	

This retained TPZ incurs to be required and 10% of the Arborist should be present for excavation 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


Tree number	2	
Species	<i>Eucalyptus pauciflora ssp. hedraia</i>	
Height (estimated m)	15	
DBH (cm) Caliper at ground level	65 72	
Health	Fair/Poor	
Structure	Fair. 3 main trunks (see arrows)	
Faults	Multi stemmed, 1 stem is dead	
Tree protection zone (TPZ) Structural Root Zone (SRZ)	7.8m 2.88m	
Impact from development	Excavation for rock wall and driveway will impact SRZ	
Recommendation	Remove	

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Tree number	3	
Species	<i>Eucalyptus pauciflora ssp. hedraia</i>	
Height (estimated m)	20	
DBH (cm) Caliper at ground level	55 60	
Health	Good	
Structure	Good	
Faults	Codominant stems	
Tree protection zone (TPZ) Structural Root Zone (SRZ)	6.6m 2.67m	
Impact from development	Excavation and building footprint will impact SRZ	
Recommendation	Remove	


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Tree number	4	
Species	<i>Eucalyptus pauciflora ssp. hedraia</i>	
Height (estimated m)	14	
DBH (cm) Caliper at ground level	59 102	
Health	Good	
Structure	Fair. Multiple stemmed	
Faults	Minor deadwood present	
Tree protection zone (TPZ) Structural Root Zone (SRZ)	7.08m 2.88m	
Impact from development	Excavation and building footprint will impact SRZ	
Recommendation	Remove	


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Tree number	5	
Species	<i>Eucalyptus pauciflora ssp. hedraia</i>	
Height (estimated m)	14	
DBH (cm) Caliper at ground level	81 142	
Health	Good	
Structure	Good	
Faults	Codominant stems	
Tree protection zone (TPZ) Structural Root Zone (SRZ)	9.72m 3.83m	
Impact from development	Potential for a minor incursion into TPZ <10%, if at all	
Recommendation	Retain	


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Tree number	15	
Species	<i>Eucalyptus pauciflora ssp. hedraia</i>	
Height (estimated m)	15	
DBH (cm) Caliper at ground level	68 139	
Health	Good	
Structure	Good	
Faults	Codominant stems	
Tree protection zone (TPZ) Structural Root Zone (SRZ)	8.16m 3.8m	
Impact from development	Site cut is approx. 11.6 metres from base of tree, clear of TPZ	
Recommendation	Retain	

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Tree number	7	
Species	<i>Eucalyptus pauciflora ssp. hedraia</i>	
Height (estimated m)	14	
DBH (cm) Caliper at ground level	53 93	
Health	Good	
Structure	Good	
Faults	Codominant stems	
Tree protection zone (TPZ) Structural Root Zone (SRZ)	6.36m 3.21m	
Impact from development	No excavations planned within TPZ.	
Recommendation	Retain	


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Tree number	8	
Species	<i>Eucalyptus pauciflora ssp. hedraia</i>	
Height (estimated m)	16	
DBH (cm) Caliper at ground level	72 115	
Health	Good	
Structure	Good	
Faults	Codominant stems	
Tree protection zone (TPZ) Structural Root Zone (SRZ)	8.64m 3.51m	
Impact from development	No excavation expected to affect roots. See discussion.	
Recommendation	Retain. Prune low limbs over driveway for clearance of traffic	


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Tree number	9	
Species	<i>Eucalyptus pauciflora ssp. hedraia</i>	
Height (estimated m)	20	
DBH (cm) Caliper at ground level	58 76	
Health	Good	
Structure	Good	
Faults	Codominant stems	
Tree protection zone (TPZ) Structural Root Zone (SRZ)	7.04m 2.94m	
Impact from development	Excavation and building to occur on site of this tree	
Recommendation	Remove	

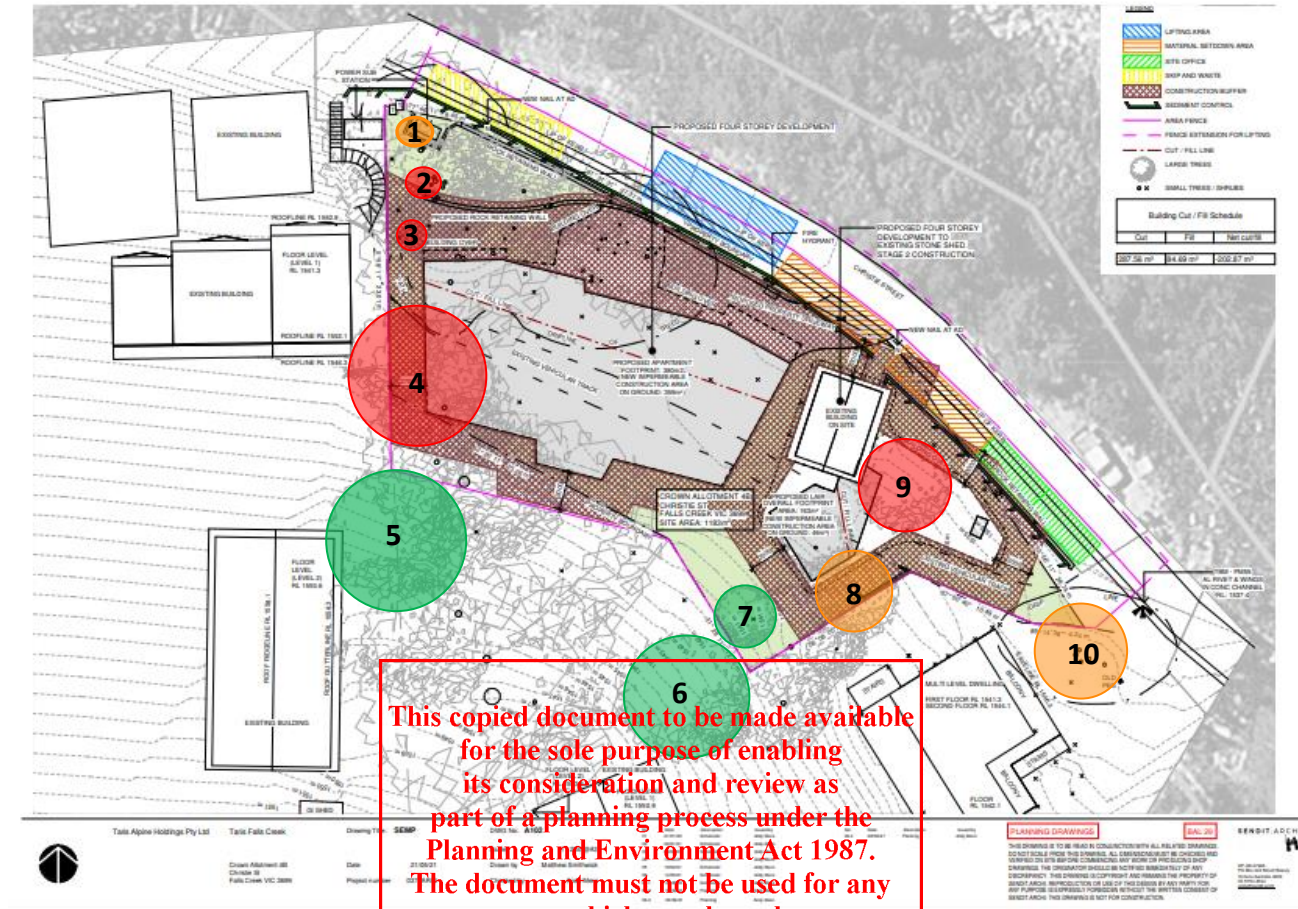
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Tree number	10	
Species	<i>Eucalyptus pauciflora ssp. hedraia</i>	
Height (estimated m)	17	
DBH (cm) Caliper at ground level	90 200	
Health	Good	
Structure	Good	
Faults	Codominant stems	
Tree protection zone (TPZ) Structural Root Zone (SRZ)	10.8m 4.43m	
Impact from development	No excavation expected to affect roots. See discussion.	
Recommendation	Retain	

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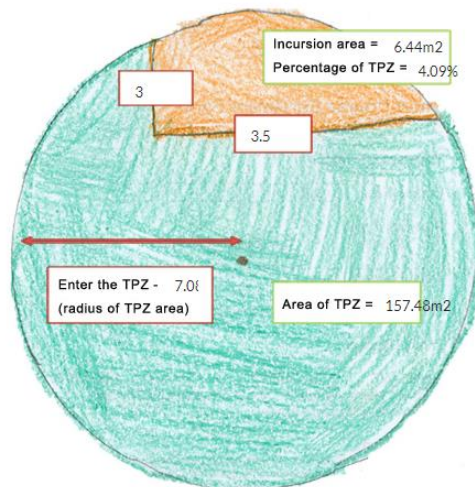
Trees potentially impacted shown overlaid with proposed construction



Discussion:

Trees 2, 3, 4 and 9 are all situated where excavation are required or buildings are situated and are to be removed. Trees 5, 6 and 7 are situated above the existing site cut. The excavations around tree 4 are likely to impact the very edge of the TPZ of tree 5, but this will be minimal, if at all. There were reportedly no requirements to extend the existing site cut around tree 8, meaning that tree 6 is not impacted at all, and excavation within the TPZ of tree 7 is existing, so no root disturbance is expected here.

Trees 1, 8 and 10 are expected to have manageable impact, or have impact within the SRZ or TPZ zones calculated from their size. Tree 1 is approximately 4 metres from the location of the new rock wall. The diagram below estimates the incursion into the TPZ required for this at 4.09%.



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Tree 8 is situated right on the edge of a historic excavation and the structural roots can be see exposed below. These roots are growing down and back in to the soil, and are not expected to be impacted by any further excavation. Pruning of this tree is required, specifically lower limb removal to prevent mechanical damage by passing trucks and equipment. This is preferable to not pruning the tree as the access required for construction has potential to cause wounding. Pruning to remove less than one third of the canopy is achievable. The access here is well developed and the compaction of this access way has existed for some years without visually affecting the vigour of this tree.

Tree 10 is situated on an “island” of raised ground surrounded by a rock wall. The SRZ of this tree is calculated at 4.43 metres, however the rock wall is only 1.8 metres away and on the other side of the rock wall is heavily compacted ground as part of the driveway. This tree is in good health, and no excavation is expected within the SRZ. The TPZ measures 10.8 metres. There will be building works near the edge of the TPZ, but any incursion will affect less than 10% of the zone.

If excavation beyond what has been described or depicted is to occur within these TPZ zones then the Arborist should be consulted to ascertain if any further considerations need to be made.

Recommendations:

Species	Tree ID	DBH	Arborist assessment – lost or retained
<i>Eucalyptus pauciflora</i> subsp. <i>hedraia</i> - Bogong Sally	1	49	Retain
<i>Eucalyptus pauciflora</i> subsp. <i>hedraia</i> - Bogong Sally	2	43	Lost
<i>Eucalyptus pauciflora</i> subsp. <i>hedraia</i> - Bogong Sally	3	42	Lost
<i>Eucalyptus pauciflora</i> subsp. <i>hedraia</i> - Bogong Sally	4	43	Lost
<i>Eucalyptus pauciflora</i> subsp. <i>hedraia</i> - Bogong Sally	5	48	Retain
<i>Eucalyptus pauciflora</i> subsp. <i>hedraia</i> - Bogong Sally	6	50	Retain
<i>Eucalyptus pauciflora</i> subsp. <i>hedraia</i> - Bogong Sally	7	42	Retain
<i>Eucalyptus pauciflora</i> subsp. <i>hedraia</i> - Bogong Sally	8	46	Retain
<i>Eucalyptus pauciflora</i> subsp. <i>hedraia</i> - Bogong Sally	9	43	Lost
<i>Eucalyptus pauciflora</i> subsp. <i>hedraia</i> - Bogong Sally	10	52	Retain

Table provided by Biosis.



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Costermans, L. (2009) *Native trees and shrubs of south eastern Australia*, Chatswood, NSW: New Holland Publishers

Harris, R. W., Clark, J. R., & Matheny, N. P. (2004). *Arboriculture*. Prentice Hall

Standards Australia. (2009). *Protection of trees on development sites (AS 4970-2009)*. Retrieved from SAI Global. <https://infostore.saiglobal.com/>

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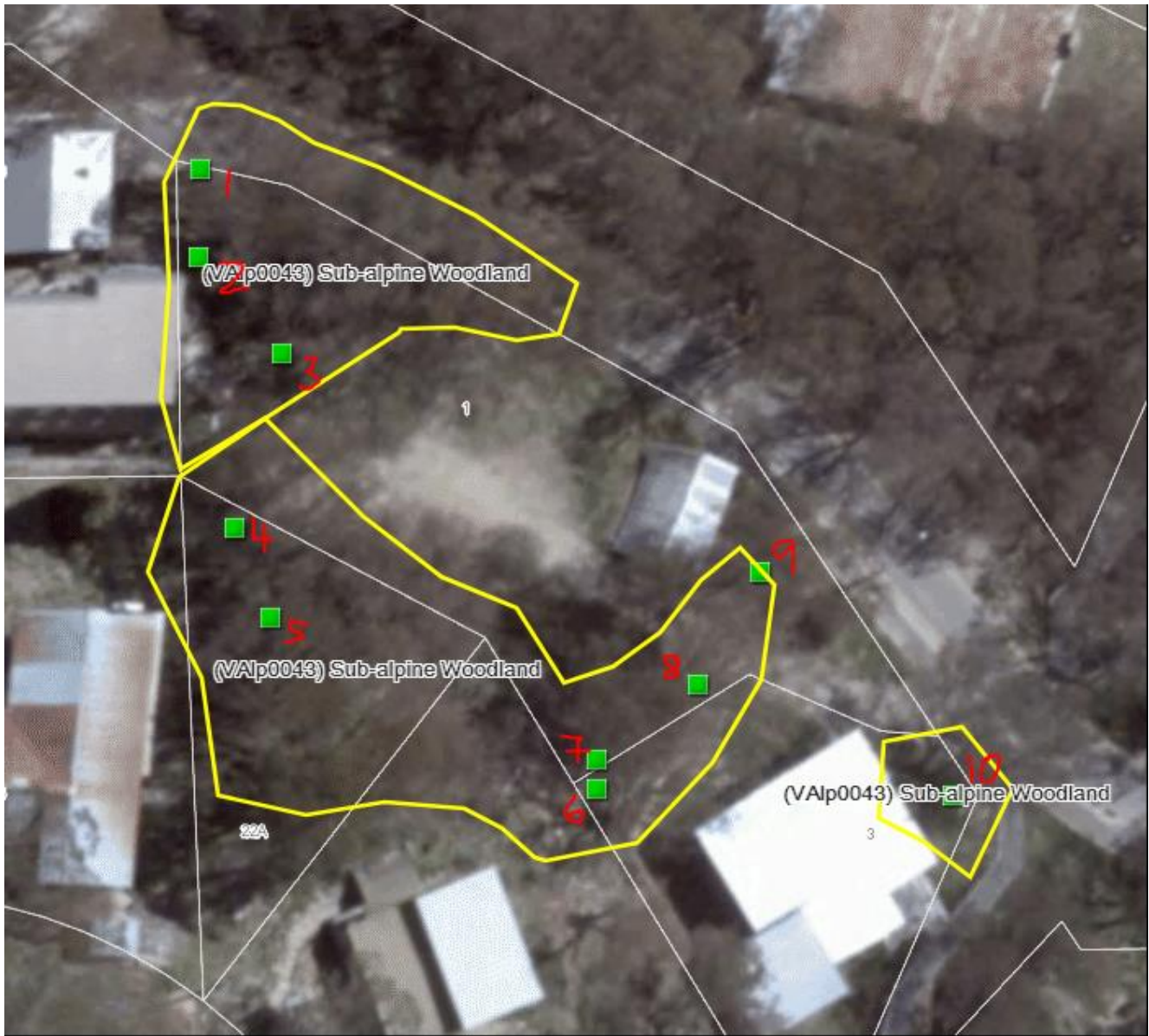
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Appendix 1:

Map of trees to be assessed as provided by Biosis.



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