



STANDFAST TREE SERVICES
ESTABLISHED 1979

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11/5/2021

Ben Nemeny

Director

Marker Architecture & Design Studio

Re T21 at 78 Hudson Pde, Clareville, DA 2019/0152

T21 an overmature *Corymbia maculata* is one of fourteen trees¹ within the property that are to be retained throughout the construction work 78 Hudson Pde. There are five more trees at the adjoining properties.

Prior to development at the site T21 was in poor health and condition,² *'Deadwood >40mm, epicormic shoots, sparse canopy, included fork at 15m above ground and cross branch approx. 17m above ground ... Overmature.'*

Five reports from the project arborist have been prepared recording the results 26 site visits since construction began at 78 Hudson Pde. T21 was always the focus as it was poor health before work began and continued to decline despite continued efforts to turn it around, please see below:

¹ T2, T6, T7, T8, T9, T12, T21, T25, T26, T27, T29, T34, T35 and T36.

² Arboricultural Impact Assessment, Feb 2019. *Health*: Refers to a tree's vigour and is assessed by looking at crown density, leaf colour, presence of epicormic shoots and degree of dieback. Classes are Very Good (VG) Good (G) Poor (P) Very Poor, declining (VP).



date	objective	Refer to fig	activity
20/3/20	Be on hand during demolition work close to T26 and T27, ³ check on TPZ of T21 (<i>Corymbia maculata</i>)	1 & 2	Demolition
2/4/20 3/4/20	Ecologist onsite		Tree removal
3/4/20	Replace ground mats and mulch	3	Tree removal
6/4/20	Supply 5m ³ vintage mulch for TPZ		Earth works
7/4/20	Inspect tree protection during loading out, supply 5m ³ vintage mulch	4	Earth works
16/4/20	Ongoing earthworks, arrange supply 10m ³ vintage mulch	5	Earth works

PA Mar – Apr 2020 above

Date	Objective	Refer to fig	Activity
22/4/20	Observe tree removal work (T34) near T26, T27 and across the TPZ of T21. Ensure that T26 and T27 were not physically damaged by tree felling and that moving/winching logs across TPZ of T21 was over ground mats to avoid compaction and digging up roots	1	Tree removal
24/4/20	Check that the removal of deadwood from T21 complied with AS 4373-2007, Pruning amenity trees	2	Tree pruning
4/5/20	On hand at start of piling operations to monitor and record exposure of any roots greater than 30-40mm dia. None were	3, 4	Piling
5/6/20	Site visit day after slurry spill previous evening 4/6/20	5	Inspect
9/6/20	Remediate TPZ of T21 after slurry spill	6	Remediation

PA Apr – June 2020 above

³ *Corymbia maculatas* AIA prepared by Standfast Tree Services Pty Ltd



Date	Observations	Refer to fig	Activity
23/6/20	Excavator on mats to north of T21, concrete pumping to south of T21. T26 and T27 well-mulched and fenced	1 & 2	Concrete pumping
3/7/20	One significant root from T21 was exposed along with some small dia roots. T26 and T27 have small dia roots roots exposed by excavation. Root pruning.	3 & 4	Excavation
10/7/20	T21 with excavator access to north has a stockpile of concrete blocks to its south	5 & 6	Earthworks
27/8/20	Truck and dog adjacent T21, canopy of T21	7 & 8	Loading out
28/8/20	Aerating soil, watering, applying Rootex (50ml), Seasol (2x litres) , soil wetting agent (500ml) T21	9 & 10	Treatment T21
15/10/20	Soil compaction on north side after excavation work	11	Earthworks
23/10/20	Loosening, aerating soil, watering T21. T26 and T27 in very good health, T21 has sparse canopy	12, 13, 14 & 15	Treatment T21

PA June – Oct 2020 above

Date	Activity	Refer to fig	Objective
3/11/20	Corer was used to break through compaction and then Seasol and root hormone was watered in before ground mats were reapplied around T21	1, 2	Decompaction and root growth promotion T21
16/11/20	Mulch applied to T21 and 3x new ground mats supplied	3	Decreasing compaction
17/12/20	Inspect TPMs ⁴	4	Monitor TPMs
8/1/21	Inspect new cut down the block past T26, T27, between T29 and T34 and new ground works around T35 and T36	5, 6	Do new TPMs need to be implemented and potential impacts from extended ground works
11/1/21	Apply/refresh TPMs in light of new development. Slope is too steep for ground mats between T29 and T34 - no roots greater than 30mm diameter were exposed	7,8	Soil was decompacted by hand digging around T21, T26 and T27. Existing ground protection was refreshed and new TPMs put around T26 and T27

PA Oct 2020 – Jan 2021 above

⁴ Tree protection measures



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Date	Activity	Refer to figs	Objective
1/2/21	Monitor trees onsite	1 & 2	Check health and condition of retained trees. T21 the only tree not in good vigour
2/2/21	Dig core holes within TPZ of T21 and apply Seasol and Rootex	3 & 4	Decrease soil compaction and promote root growth
30/3/21	Monitor trees onsite	5 & 6	Check health and condition of retained trees. T21 only tree not in good vigour
26/4/21	Meeting with owners, the architect and builder to discuss T21, monitor other trees onsite	7, 8, 9, 10 & 11	T21 now in decline, check health and condition of the other retained trees.

PA Feb - May 2021 above

T21 is in decline and will not survive.

Half the canopy is dead and the other half is sparse and dieing, please refer to figure 1.

With construction well underway and work due to begin around T21 it would be advisable to remove the tree while it is in an open position and before it is incorporated into a new built environment.

Yours faithfully,

Nigel Dean

AQF level 5 arborist

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Figure 1, T21, *Corymbia maculata*, in decline



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Figure 2, T21 front left, Tree protection in place as it has been maintained throughout construction