Appendix N

Preliminary Tree Assessment prepared by Eco Logical Australia

Dunmore Street, Pendle Hill – Preliminary Tree Assessment

Fresh Hope Care

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Template 2.8.1

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Abbreviations

Abbreviation	Description
AQF	Australian Qualifications Framework
AS	Australian Standards
DBH	Diameter at Breast Height
ELA	Eco Logical Australia
m	Metre
mm	Millimetre
NDE	Non-Destructive Excavation
NO	Number
NSW	New South Wales
SP	Species
SRZ	Structural Root Zone
TPZ	Tree Protection Zone
VTA	Visual Tree Assessment

1. Background

1.1 Introduction

Fresh Hope Care are proposing to lodge a planning proposal for a study area at Dunmore Street, Pendle Hill within Cumberland City Council LGA. The study area is approximately 7.3 ha and is currently used as a seniors living facility including Pendle Hill Retirement Village and Ashwood Residential Care Service and contains the historic Dunmore House (built 1936). An ecological constraints assessment prepared by Ecological Australia Ltd Pty (ELA) accompanies this report which assessed the broader ecological values on site (Ecological Constraints Assessment February 2020).

The purpose of this report is to:

- identify the trees within the study area
- assess the current overall health and condition of the subject trees
- evaluate the significance of the subject trees.

1.2 The study area

The site is located at Dunmore Street, Pendle Hill within the Local Government Area of Cumberland Council. The site covers the following lots:

- Lot 1 DP 24728
- Lot 2 DP 24728
- Lot 8 DP 24728
- Lot 9 DP 24728
- Lot 10 DP 24728
- Lot 11 DP 24728
- Lot 12 DP 24728
- Lot 472 DP 1204429
- Lot A DP 33578
- Lot 2 DP 554208
- Lot 3 DP 554208

2. Method

2.1 Definition of a tree

Cumberland Council defines a tree as being:

'Any woody and soft wooded perennial plant' over 3.6 metres in height (12 feet)' (Cumberland Council 2013)

2.2 Visual tree assessment

The subject trees were assessed in accordance with a stage one visual tree assessment (VTA) as formulated by Mattheck and Breloer (1994), and practices consistent with modern arboriculture.

A total of **149** subject trees were inspected on 10 December 2018 and 8 May 2019 by AQF Level 5 Consulting Arborist, Elizabeth Hannon.

The following limitations apply to this methodology:

- Trees were inspected from ground level, without the use of any invasive or diagnostic tools and testing.
- Trees within restricted areas were not subject to a complete visual inspection (i.e. defects and abnormalities may be present but not recorded).
- Trees with adjacent properties were not subject to a visual inspection.
- No aerial inspections or root mapping was undertaken.
- Tree heights, canopy spread and diameter at breast height (DBH) was estimated, unless otherwise stated.
- Tree identification was based on broad taxonomical features present and visible from ground level at the time of inspection.
- Trees of the same species, with similar dimensions growing near each other, have been documented as a group and presented under a single way point.

2.3 Tree retention assessment

This tree retention assessment has been undertaken in accordance with the IACA Significance of a Tree, Assessment Rating System (STARS). This method produces a tree retention rating of high, medium or low based on two factors:

- the significance of the tree
- the life expectancy of the tree.

Further details and assessment criteria are in Appendix B.

2.4 Recording data

Data and information was gathered and recorded using digital data capture. Maps, diagrams and site plans are not to scale (unless otherwise stated) and are to be used as a guide only.

3. Results

Table 1 and Figure 1 show the results of the arboricultural assessment. The key points are:

- **33** trees with a high retention value
- **79** trees with a medium retention value (tree no. 27 is a group of 4)
- **37** trees with a low retention value (tree no. 51 is a group of 7)

Table 1: Results of the arboricultural assessment

Tree	Botantical Name	Trees in Group	Height (m)	Spread (m)	Health	Structure	Retention Value	DBH (mm)	TPZ (mm)	SRZ (mm)	Notes
1	*Fraxinus oxycarpa*	1	4	3	Fair	Poor	**Low**	250	3000	1800	Lopped
2	*Fraxinus oxycarpa*	1	4	3	Poor	Poor	**Low**	300	3600	2000	
3	*Callistemon viminalis*	1	5	7	Fair	Poor	**Low**	400	4800	2300	
4	*Callistemon viminalis*	1	8	7	Fair	Fair	**Medium**	600	7200	2700	
5	*Callistemon viminalis*	1	3	2	Poor	Poor	**Low**	300	3600	2000	
6	*Callistemon viminalis*	1	4	3	Poor	Poor	**Low**	400	4800	2300	
7	*Callistemon viminalis*	1	7	7	Good	Poor	**Medium**	700	8400	2800	
8	*Macadamia sp*	1	5	5	Good	Poor	**Medium**	250	3000	1800	
9	*Pinus radiata*	1	10	12	Fair	Fair	**Medium**	700	8400	2800	
10	*Pinus sp.*	1	12	11	Good	Fair	**Medium**	750	9000	2900	
11	*Cinnamomum camphora*	1	10	9	Good	Poor	**Low**	800	9600	3000	
12	*Eucalyptus tereticornis*	1	15	10	Good	Good	**High**	900	11000	3200	Wound
13	*Ficus macrophylla*	1	12	13	Good	Good	**High**	1500	18000	3900	
14	*Eucalyptus microcorys*	1	13	10	Good	Fair	**Medium**	470	5600	2400	
15	*Eucalyptus microcorys*	1	12	9	Good	Fair	**High**	500	6000	2500	
16	*Ficus macrophylla*	1	13	12	Fair	Fair	**Medium**	1500	18000	3900	
17	*Ficus macrophylla*	1	12	12	Good	Good	**High**	1600	19000	4000	
18	*Ficus macrophylla*	1	10	10	Good	Good	**High**	1400	17000	3800	
19	*Triadica sebifera*	1	5	3	Good	Fair	**Medium**	300	3600	2000	
20	*Triadica sebifera*	1	4	2	Poor	Poor	**Low**	200	2400	1700	
21	*Triadica sebifera*	1	5	4	Good	Fair	**Medium**	300	3600	2000	

Tree	Botantical Name	Trees in Group	Height (m)	Spread (m)	Health	Structure	Retention Value	DBH (mm)	TPZ (mm)	SRZ (mm)	Notes
22	*Ficus macrophylla*	1	16	17	Good	Good	**High**	2500	30000	4900	
23	*Ficus sp.*	1	7	7	Good	Fair	**Medium**	1500	18000	3900	
24	*Eucalyptus saligna*	1	20	15	Good	Good	**High**	1103	13000	3400	
25	*Ficus microcarpa*	1	12	13	Good	Good	**High**	1500	18000	3900	
26	*Leptospermum petersonii*	1	5	4	Good	Fair	**Medium**	300	3600	2000	
27	*Callistemon viminalis*	4	4	3	Fair	Fair	**Medium**	200	2400	1700	Group of 4
28	*Pinus radiata*	1	9	6	Good	Fair	**Medium**	400	4800	2300	
29	*Syncarpia glomulifera*	1	8	8	Good	Fair	**Medium**	600	7200	2700	
30	*Ficus microcarpa*	1	9	8	Good	Fair	**Medium**	1020	12000	3300	
31	*Photinia robusta*	1	3	3	Good	Poor	**Low**	300	3600	2000	
32	*Callistemon viminalis*	1	3	3	Good	Fair	**Medium**	250	3000	1800	
33	*Jacaranda mimosifolia*	1	3	2	Poor	Poor	**Low**	150	2000	1500	
34	*Calodendron capense*	1	3	2	Poor	Poor	**Low**	100	2000	1500	
35	*Corymbia citriodora*	1	16	17	Good	Good	**High**	830	10000	3100	
36	*Ficus microcarpa*	1	7	6	Fair	Good	**Medium**	500	6000	2500	
37	*Podocarpus elatus*	1	7	5	Fair	Fair	**Medium**	400	4800	2300	
38	*Cinnamomum camphora*	1	13	11	Poor	Fair	**Medium**	800	9600	3000	
39	*Lophostemon confertus*	1	9	8	Good	Good	**High**	600	7200	2700	
40	*Ficus microcarpa*	1	7	7	Good	Good	**High**	720	8600	2900	
41	*Fraxinus griffithii*	1	5	5	Good	Fair	**Medium**	350	4200	2100	
42	*Angophora floribunda*	1	8	2	Good	Poor	**Low**	200	2400	1700	
43	*Angophora floribunda*	1	10	4	Good	Fair	**Medium**	300	3600	2000	

Tree	Botantical Name	Trees in Group	Height (m)	Spread (m)	Health	Structure	Retention Value	DBH (mm)	TPZ (mm)	SRZ (mm)	Notes
44	*Fraxinus griffithii*	1	6	5	Good	Fair	**Medium**	300	3600	2000	
45	*Angophora floribunda*	1	11	6	Good	Fair	**Medium**	600	7200	2700	
46	*Angophora floribunda*	1	6	4	Fair	Fair	**Medium**	500	6000	2500	
47	*Angophora floribunda*	1	11	12	Good	Fair	**Medium**	500	6000	2500	
48	*Angophora floribunda*	1	10	6	Good	Fair	**Medium**	450	5400	2400	
49	*Angophora floribunda*	1	12	6	Fair	Fair	**Medium**	550	6600	2600	
50	*Angophora floribunda*	1	11	7	Good	Fair	**Medium**	650	7800	2800	
51	*Cinnamomum camphora*	7	7	4	Poor	Poor	**Low**	200	2400	1700	Group of 7
52	*Corymbia maculata*	1	8	4	Good	Fair	**Medium**	350	4200	2100	
53	*Eucalyptus punctata*	1	17	12	Good	Good	**High**	820	9800	3000	
54	*Eucalyptus punctata*	1	12	7	Poor	Poor	**Low**	600	7200	2700	
55	*Eucalyptus punctata*	1	18	15	Good	Good	**High**	900	11000	3200	
56	*Corymbia maculata*	1	10	5	Good	Fair	**Medium**	400	4800	2300	
57	*Melaleuca quinquenervia*	1	6	3	Poor	Fair	**Low**	300	3600	2000	
58	*Ficus superba*	1	8	11	Good	Good	**High**	2010	24000	4400	
59	*Melaleuca armillaris*	1	6	5	Poor	Fair	**Low**	350	4200	2100	
60	*Corymbia citriodora*	1	12	10	Fair	Good	**Medium**	450	5400	2400	
61	*Ficus macrophylla*	1	5	4	Fair	Fair	**Medium**	500	6000	2500	
62	*Araucaria bidwillii*	1	16	7	Good	Good	**High**	900	11000	3200	
63	*Ficus macrophylla*	1	6	6	Poor	Poor	**Low**	500	6000	2500	
64	*Araucaria heterophylla*	1	16	7	Good	Fair	**Medium**	600	7200	2700	
65	*Chamaecyparis sp.*	1	8	6	Fair	Fair	**Medium**	400	4800	2300	

Tree	Botantical Name	Trees in Group	Height (m)	Spread (m)	Health	Structure	Retention Value	DBH (mm)	TPZ (mm)	SRZ (mm)	Notes
66	*Ficus microcarpa*	1	10	11	Fair	Fair	**Medium**	1000	12000	3300	
67	*Araucaria heterophylla*	1	16	11	Poor	Fair	**Medium**	920	11000	3200	
68	*Grevillea robusta*	1	10	6	Poor	Poor	**Low**	470	5600	2400	
69	*Ficus macrophylla*	1	7	5	Fair	Poor	**Low**	400	4800	2300	
70	*Cupressus sp.*	1	11	5	Good	Fair	**Medium**	600	7200	2700	
71	*Angophora floribunda*	1	9	4	Fair	Fair	**Medium**	300	3600	2000	
72	*Eucalyptus punctata*	1	15	10	Fair	Fair	**Medium**	850	10000	3100	
73	*Corymbia maculata*	1	15	7	Good	Fair	**Medium**	400	4800	2300	
74	*Eucalyptus punctata*	1	15	11	Poor	Fair	**Low**	750	9000	2900	
75	*Corymbia maculata*	1	8	5	Poor	Poor	**Low**	300	3600	2000	
76	*Corymbia maculata*	1	16	7	Good	Good	**High**	400	4800	2300	
77	*Eucalyptus punctata*	1	18	11	Good	Fair	**Medium**	950	11000	3200	
78	*Eucalyptus punctata*	1	16	14	Good	Good	**High**	840	10000	3100	
79	*Eucalyptus punctata*	1	18	11	Good	Good	**High**	840	10000	3100	
80	*Eucalyptus punctata*	1	12	8	Good	Good	**High**	600	7200	2700	
81	*Eucalyptus punctata*	1	15	11	Fair	Good	**Medium**	800	9600	3000	
82	*Eucalyptus punctata*	1	9	4	Poor	Poor	**Low**	200	2400	1700	
83	*Corymbia maculata*	1	11	6	Good	Good	**High**	450	5400	2400	
84	*Eucalyptus punctata*	1	12	7	Fair	Fair	**Medium**	900	11000	3200	Snap out
85	*Lophostemon confertus*	1	8	5	Fair	Poor	**Low**	500	6000	2500	
86	*Eucalyptus punctata*	1	18	12	Good	Good	**High**	650	7800	2800	
87	*Lophostemon confertus*	1	7	5	Good	Fair	**Medium**	450	5400	2400	

Tree	Botantical Name	Trees in Group	Height (m)	Spread (m)	Health	Structure	Retention Value	DBH (mm)	TPZ (mm)	SRZ (mm)	Notes
88	*Eucalyptus sideroxylon*	1	11	5	Poor	Poor	**Low**	400	4800	2300	
89	*Lophostemon confertus*	1	6	5	Fair	Fair	**Medium**	450	5400	2400	
90	*Eucalyptus nicholii*	1	7	5	Poor	Poor	**Low**	400	4800	2300	
91	*Eucalyptus sideroxylon*	1	8	7	Good	Fair	**Medium**	500	6000	2500	
92	*Eucalyptus sideroxylon*	1	8	5	Good	Fair	**Medium**	600	7200	2700	
93	*Syncarpia glomulifera*	1	7	5	Good	Good	**High**	650	7800	2800	
94	*Eucalyptus moluccana*	1	11	6	Good	Fair	**Medium**	500	6000	2500	
95	*Eucalyptus tereticornis*	1	17	9	Good	Fair	**Medium**	800	9600	3000	
96	*Eucalyptus moluccana*	1	18	9	Good	Good	**High**	700	8400	2800	
97	*Eucalyptus moluccana*	1	9	7	Fair	Fair	**Medium**	560	6700	2600	
98	*Eucalyptus moluccana*	1	18	12	Good	Good	**High**	850	10000	3100	
99	*Eucalyptus moluccana*	1	12	6	Good	Fair	**Medium**	500	6000	2500	
100	*Eucalyptus moluccana*	1	18	7	Good	Good	**High**	709	8500	2900	
101	*Eucalyptus moluccana*	1	18	11	Good	Good	**High**	700	8400	2800	
102	*Ficus macrophylla*	1	9	10	Good	Good	**High**	800	9600	3000	
103	*Eucalyptus nicholii*	1	11	9	Poor	Poor	**Low**	850	10000	3100	
104	*Quercus robur*	1	4	6	Poor	Poor	**Low**	600	7200	2700	
105	*Triadica sebifera*	1	7	7	Good	Good	**Medium**	800	9600	3000	
106	*Liquidambar styraciflua*	1	5	5	Good	Fair	**Medium**	400	4800	2300	
107	*Lophostemon confertus*	1	11	7	Good	Good	**High**	650	7800	2800	
108	*Eucalyptus moluccana*	1	16	11	Good	Good	**High**	900	11000	3200	
109	*Eucalyptus moluccana*	1	18	12	Good	Good	**High**	900	11000	3200	

Tree	Botantical Name	Trees in Group	Height (m)	Spread (m)	Health	Structure	Retention Value	DBH (mm)	TPZ (mm)	SRZ (mm)	Notes
110	*Melaleuca quinquenervia*	1	6	6	Good	Good	**High**	400	4800	2300	
111	*Schinus areira*	1	7	7	Good	Fair	**Medium**	1000	12000	3300	
112	*Jacaranda mimosifolia*	1	7	4	Good	Fair	**Medium**	350	4200	2100	
113	*Jacaranda mimosifolia*	1	7	7	Fair	Fair	**Medium**	500	6000	2500	
114	*Eucalyptus robusta*	1	6	5	Good	Fair	**Medium**	350	4200	2100	
115	*Jacaranda mimosifolia*	1	9	9	Good	Fair	**Medium**	600	7200	2700	
116	*Jacaranda mimosifolia*	1	9	9	Poor	Poor	**Low**	600	7200	2700	
117	*Brachychiton acerifolius*	1	12	6	Good	Good	**High**	600	7200	2700	
118	*Jacaranda mimosifolia*	1	12	9	Fair	Fair	**Medium**	500	6000	2500	
119	*Jacaranda mimosifolia*	1	10	10	Good	Good	**High**	550	6600	2600	
120	*Jacaranda mimosifolia*	1	7	6	Poor	Fair	**Low**	400	4800	2300	
121	*Callistemon viminalis*	1	6	5	Good	Fair	**Medium**	400	4800	2300	
122	*Leptospermum petersonii*	1	5	5	Good	Good	**Medium**	400	4800	2300	
123	*Brachychiton acerifolius*	1	9	6	Good	Fair	**Medium**	400	4800	2300	
124	*Lophostemon confertus*	1	6	5	Good	Fair	**Medium**	450	5400	2400	
125	*Eucalyptus punctata*	1	11	5	Good	Fair	**Medium**	550	6600	2600	
126	*Eucalyptus punctata*	1	12	5	Good	Fair	**Medium**	450	5400	2400	
127	*Elaeocarpus reticulatus*	1	4	3	Good	Fair	**Medium**	100	2000	1500	
128	*Elaeocarpus reticulatus*	1	4	2	Good	Fair	**Medium**	100	2000	1500	
129	*Elaeocarpus reticulatus*	1	4	2	Good	Fair	**Medium**	100	2000	1500	
130	*Melaleuca linariifolia*	1	6	5	Good	Fair	**Medium**	340	4100	2100	
131	*Melaleuca linariifolia*	1	4	3	Fair	Fair	**Medium**	300	3600	2000	

Tree	Botantical Name	Trees in Group	Height (m)	Spread (m)	Health	Structure	Retention Value	DBH (mm)	TPZ (mm)	SRZ (mm)	Notes
132	*Melaleuca linariifolia*	1	5	3	Good	Fair	**Medium**	300	3600	2000	
133	*Melaleuca quinquenervia*	1	5	3	Fair	Fair	**Medium**	340	4100	2100	
134	*Angophora costata*	1	6	5	Good	Fair	**Medium**	400	4800	2300	
135	*Liquidambar styraciflua*	1	5	4	Good	Fair	**Medium**	300	3600	2000	
136	*Angophora costata*	1	8	5	Good	Poor	**Low**	350	4200	2100	Co dominant
137	*Fraxinus griffithii*	1	4	4	Good	Fair	**Medium**	300	3600	2000	
138	*Fraxinus griffithii*	1	4	4	Good	Fair	**Medium**	200	2400	1700	
139	*Prunus spp*	1	3	2	Poor	Poor	**Low**	250	3000	1800	Previously lopped
140	*Prunus spp*	1	4	2	Poor	Poor	**Low**	300	3600	2000	Previously lopped

Figure 1: Tree retention values (entire assessment area)

4. Conclusion and recommendations

4.1 The subject trees

A total of **33** trees with a high retention value were identified within the study area. Trees with high retention value should be retained and protected wherever possible.

A total of **79** trees with a medium retention value were identified within the study area. Trees that have a medium retention value are considered less critical and should be retained wherever possible, but not seen as a constraint to development.

A total of **37** trees with a low retention value were identified within the study area. Trees of low retention value are of low significance and their removal should not be a constraint to development.

4.2 Further assessment

An arboricultural impact assessment must be prepared if construction works are to be undertaken within the study area where trees are likely to be impacted, including trees on adjoining properties. The construction method and design footprint should protect high and medium retention value trees where possible.

4.3 Tree work

Any pruning to trees is to be carried out by an arborist with a minimum AQF Level 3 qualification in Arboriculture.

All tree work must be in accordance with *Australian Standard AS 4373-2007, Pruning of Amenity Trees and the NSW WorkCover Code of Practice for the Amenity Tree Industry (1998*).

Permission must be granted from the relevant consent authority, prior to removing or pruning any of the trees.

5. References

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6. Project specific references

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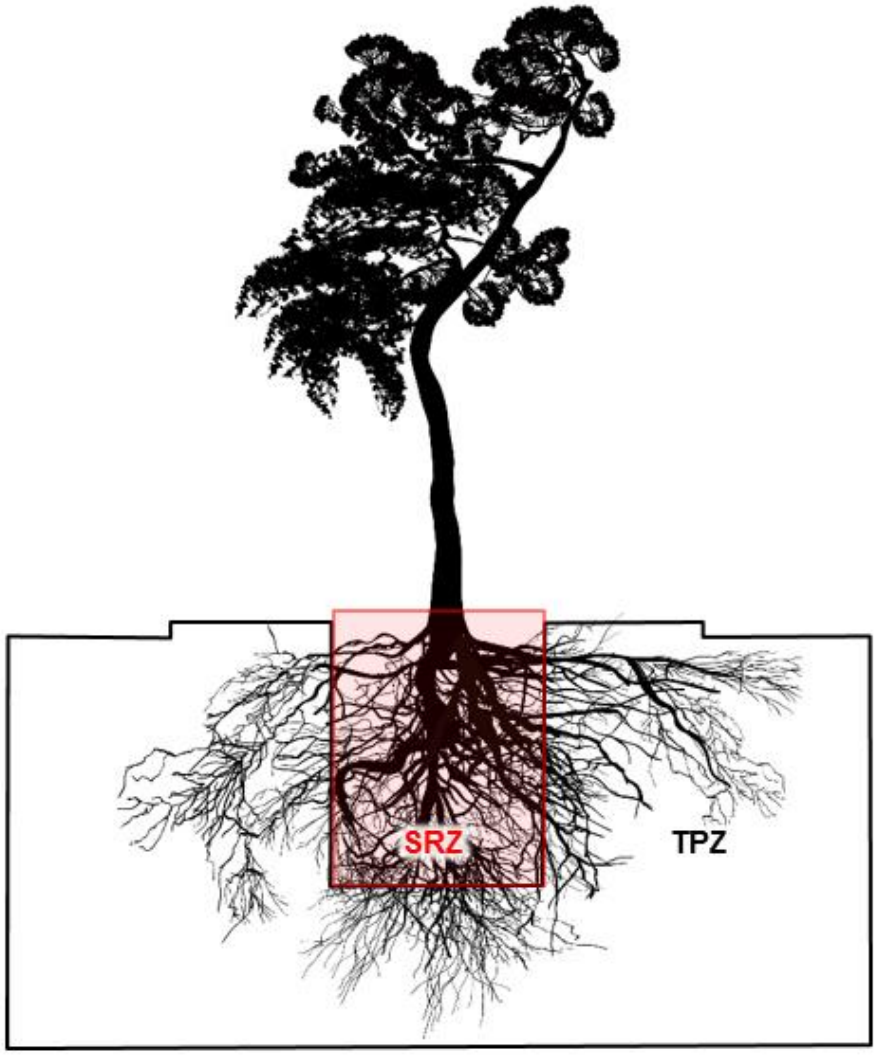
Ecological Australia Pty Ltd, 2020. Ecological Constraints Assessment Dunmore Street, Pendle Hill.

Appendix A Tree protection zones

Tree protection zone (TPZ): The TPZ is the optimal combination of crown and root area (as defined by AS 4970-2009) that requires protection during the construction process so that the tree can remain viable. The TPZ is an area that is isolated from the work zone to insure no disturbance or encroachment occurs into this zone. Tree sensitive construction measures must be implemented if works are to proceed within the Tree Protection Zone.

Structural root zone (SRZ): The SRZ is the area of the root system (as defined by AS 4970-2009) used for stability, mechanical support and anchorage of the tree. The SRZ only considers a tree's structural stability, not the area of root zone required for long term viability. Severance of structural roots (>50 mmØ) within the SRZ is generally not recommended as it may lead to the destabilisation and/or decline of the tree.



Appendix B Tree retention assessment method

B1 Tree Significance Assessment Criteria - STARS©

Low	Medium	High
The tree is in fair-poor condition and/or low vigour.	The tree is in fair to good condition	The tree is in good condition and good vigour
The tree has form atypical of the species	The tree has form typical or atypical of the species	The tree has a form typical for the species
The tree is not visible or is partly visible from the surrounding properties or obstructed by other vegetation or buildings	The tree is a planted locally indigenous or a common species with its taxa commonly planted in the local area	The tree is a remnant or is a planted locally indigenous specimen and/or is rare or uncommon in the local area or of botanical interest or of substantial age.
The tree provides a minor contribution or has a negative impact on the visual character and amenity of the local area	The tree is visible from surrounding properties, although not visually prominent as partially obstructed by other vegetation or buildings when viewed from the street	The tree is listed as a heritage item, threatened species or part of an endangered ecological community or listed on Council's significant tree register
The tree is a young specimen which may or may not have reached dimensions to be protected by local Tree Preservation Orders or similar protection mechanisms and can easily be replaced with a suitable specimen	The tree provides a fair contribution to the visual character and amenity of the local area	The tree is visually prominent and visible from a considerable distance when viewed from most directions within the landscape due to its size and scale and makes a positive contribution to the local amenity.
The tree's growth is severely restricted by above or below ground influences, unlikely to reach dimensions typical for the taxa in situ – tree is inappropriate to the site conditions	The tree's growth is moderately restricted by above or below ground influences, reducing its ability to reach dimensions typical for the taxa in situ	The tree supports social and cultural sentiments or spiritual associations, reflected by the broader population or community group or has commemorative values.
The tree is listed as exempt under the provisions of the local Council Tree Preservation Order or similar protection mechanisms		The tree's growth is unrestricted by above and below ground influences, supporting its ability to reach dimensions typical for the taxa in situ – tree is appropriate to the site conditions.
The tree has a wound or defect that has the potential to become structurally unsound.		
The tree is an environmental pest species due to its invasiveness or poisonous/allergenic properties.		
The tree is a declared noxious weed by legislation		

B2 Matrix assessment

		Tree significance				
		High	Medium	Low		
Useful Life Expectancy	Long >40 years					
	Medium 15-40 years					
	Short <1-15 years					
	Dead					

Legend:

	Priority for retention (High): Tree considered important so should be retained and protected. Design modification or re-location of structure should be considered to accommodate the setbacks as prescribed by the *Australian Standard AS4970 Protection of trees on development sites*. Tree sensitive construction measures must be implemented if works are to proceed within the Tree Protection Zone.
	Consider for retention (Medium): Tree considered less important, however**,** retention should remain priority. Removal considered only if adversely affecting the proposed building/works and all other alternatives have been considered and exhausted.
	Consider for removal (Low): Tree not considered important for retention, nor requiring special works or design modification to be implemented for their retention.
	Consider for removal (Low): Tree not considered important for retention, nor requiring special works or design modification to be implemented for their retention.

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