

# Preliminary Arboricultural Assessment

85-95 Sharps Rd, Tullamarine

Report prepared for  
EMKC Cubed Management Pty Ltd

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Submitted  
29/11/2024

Melbourne  
TREE CARE



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## Document Control

Table 1. Document Control

Version	Author	Date	Amendment
1	Matthew P. James	15/03/2024	Null
2	Matthew P. James	23/08/2024	Report prepared for
3	Matthew P. James	29/11/2024	Scope changed to Preliminary Arboricultural Assessment

## Background

Melbourne Tree Care was contracted by EMKC Cubed Management Pty Ltd to undertake a preliminary arboricultural assessment for trees located within and surrounding the subject site that may be impacted by future development.

## Aim of Report

The intention of this report is to:

- Assess trees that may be impacted by future development.
- State the permit requirements for tree removal.
- State the retention value for each tree assessed.
- State the Tree Protection Zone (TPZ) and Structural Root Zone (SRZ) of all trees assessed.

## Methodology

- Matthew P James of Melbourne Tree Care attended site on the 7<sup>th</sup> of March 2024.
- Data acquired is based on a Visual Tree Inspection (VTA) from the ground (Mattheck and Breloer, 1994).
- All trees within the subject site with a mature height greater than five metres were assessed.
- All trees within five metres of boundary fences that may be impacted by future development that have a mature height greater than five metres were assessed.
- Trees were grouped where they are densely planted and are of the same species and/or are of similar size.



- Data collected for each tree was their current size (DBH, DaB, crown spread, height), condition (health and structure), ULE (useful life expectancy), retention value, TPZ, and SRZ.
- DBH (Diameter at Breast Height) was measured at 1.4 metres using a diameter tape.
- DaB (Diameter at Base) was measure above the root flare using a diameter tape.
- DBH and DaB were estimated for trees located in neighbouring properties.
- Tree height and canopy spread were estimated.
- Tree locations are approximates based on aerial imagery.
- Data was recorded using Tree Plotter.
- TPZ's and SRZ's were calculated in accordance with Australian Standard 4970-2009 Protection of trees on development sites.

## Planning Controls

The subject site is located in Brimbank City Council Industrial 1 Zone (IZ1). One planning overlay is present:

- Design and Development Overlay – Schedule 2 (DDO2)

## Vegetation Controls

### Brimbank City Council Local Law No. 2

Brimbank City Council Local Law No. 2 states that a permit **may** be required to remove or prune a tree on private land if the tree is deemed significant. The local law is quite unclear as to when a tree would require a permit. Brimbank City Council defines a significant tree that *a) meets the criteria for a significant tree, as specified in Council's Significant Tree Policy, as amended and published from time to time; and b) is individually listed on the significant tree register.* The Significant tree criteria is a tree with *a trunk diameter, measured at breast height, of 50 centimetres or more; a height of 15 metres or more; a canopy cover of 100 square metres or more.* See Table 1 below for individual tree permit requirements.

### 52.17

The subject site is greater than 4,000 m<sup>2</sup>, triggering clause 52.17 of the Victorian Planning Scheme. Pursuant to clause 52.17, a permit is required to remove, destroy, or lop native vegetation. There is an exemption within the clause that states a permit is not required when:





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- *Lopping or pruning native vegetation, for maintenance only, provided no more than 1/3 of the foliage of each individual plant is lopped or prune;*
- *Native vegetation that is to be removed, destroyed or lopped that was either planted or grown as a result of direct seeding. This exemption does not apply to native vegetation planted or managed with public funding for the purpose of land protection or enhancing biodiversity unless the removal, destruction or lopping of the native vegetation is in accordance with written permission of the agency (or its successor) that provided the funding.*

The subject site comprises of 36 different species, with 14 species native to Australia but not native to Victoria, 11 species exotic in origin, and 11 species native to Victoria. It has been determined that the Australian native and exotic species have been planted as they are not indigenous to the subject site's locality (University of Melbourne, 2022; Costermans, 1981; DEECA, 2024; DSE, 2004).

To determine if the remaining 11 species native to Victoria are remnant or planted, the Ecological Vegetation Class (EVC) for the subject site was reviewed, each species was searched using VicFlora, and the age and size (DBH and height) of each tree was also taken into account. The EVC for the subject site is 132 - Plains Grassland (DEECA, 2024), and *Acacia implexa*, *Corymbia maculata*, *Eucalyptus bicostata*, *Eucalyptus camaldulensis*, *Eucalyptus globulus*, *Eucalyptus leucoxylon*, *Eucalyptus melliodora*, *Eucalyptus sideroxylon*, *Eucalyptus tricarpa*, and *Melaleuca armillaris* are not within this EVC (DSE, 2004). Furthermore, the record search of each species using VicFlora found none of the aforementioned species within the boundaries of the subject site (Royal Botanic Gardens Victoria, 2014). All Victorian native species within the subject site are therefore determined to have been planted. See Table 2 below for individual tree permit requirements.

**Permits may also be required for tree removal if the trees are part of the landscape plan for the subject site. Before the removal of any vegetation, it is best practice to contact and confirm works with local government.**

**Table 2. Individual Tree Permit Requirements**

Tree Id	Botanical Name	Origin	DBH (cm)	Tree Height (m)	Local Law No. 2	52.17
1	<i>Eucalyptus cladocalyx</i>	Aus. Native	70	18	Unsure	No - Planted
2	<i>Eucalyptus melliodora</i>	Vic. Native	38.18	8	No	No - Planted
3	<i>Eucalyptus melliodora</i>	Vic. Native	27	10	No	No - Planted
4	<i>Corymbia citriodora</i>	Aus. Native	42	12	No	No - Planted
5	<i>Corymbia citriodora</i>	Aus. Native	50	16	Unsure	No - Planted
6	<i>Eucalyptus lehmannii</i>	Aus. Native	34.66	6	No	No - Planted
7	<i>Corymbia maculata</i>	Vic. Native	31	9	No	No - Planted



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Tree Id	Botanical Name	Origin	DBH (cm)	Tree Height (m)	Local Law No. 2	52.17
8	<i>Eucalyptus melliodora</i>	Vic. Native	23	8	No	No - Planted
9	<i>Eucalyptus camaldulensis</i>	Vic. Native	22	10	No	No - Planted
10	<i>Eucalyptus cladocalyx</i>	Aus. Native	63	15	Unsure	No - Planted
11	<i>Eucalyptus cladocalyx</i>	Aus. Native	47	16	Unsure	No - Planted
12	<i>Eucalyptus melliodora</i>	Vic. Native	15	6	No	No - Planted
13	<i>Eucalyptus melliodora</i>	Vic. Native	24.21	8	No	No - Planted
14	<i>Eucalyptus camaldulensis</i>	Vic. Native	35	12	No	No - Planted
15	<i>Eucalyptus sideroxylon</i>	Vic. Native	23	7	No	No - Planted
16	<i>Eucalyptus cladocalyx</i>	Aus. Native	59	16	Unsure	No - Planted
17	<i>Eucalyptus leucoxylon</i>	Vic. Native	29	9	No	No - Planted
18	<i>Eucalyptus melliodora</i>	Vic. Native	17.03	6	No	No - Planted
19	<i>Eucalyptus camaldulensis</i>	Vic. Native	22.36	10	No	No - Planted
20	<i>Eucalyptus cladocalyx</i>	Aus. Native	79	16	Unsure	No - Planted
21	<i>Eucalyptus sp.</i>	Aus. Native	5	2	No	No - Planted
22	<i>Eucalyptus melliodora</i>	Vic. Native	16	8	No	No - Planted
23	<i>Eucalyptus melliodora</i>	Vic. Native	16	9	No	No - Planted
24	<i>Eucalyptus camaldulensis</i>	Vic. Native	21	9	No	No - Planted
25	<i>Eucalyptus camaldulensis</i>	Vic. Native	31	12	No	No - Planted
26	<i>Eucalyptus sideroxylon</i>	Vic. Native	24	12	No	No - Planted
27	<i>Eucalyptus cladocalyx</i>	Aus. Native	49	16	Unsure	No - Planted
28	<i>Eucalyptus cladocalyx</i>	Aus. Native	67	16	Unsure	No - Planted
29	<i>Eucalyptus leucoxylon</i>	Vic. Native	10.63	3	No	No - Planted
30	<i>Eucalyptus leucoxylon</i>	Vic. Native	10	5	No	No - Planted
31	<i>Eucalyptus melliodora</i>	Vic. Native	9.43	3	No	No - Planted
32	<i>Eucalyptus sideroxylon</i>	Vic. Native	33	13	No	No - Planted
33	<i>Eucalyptus cladocalyx</i>	Aus. Native	62	17	Unsure	No - Planted
34	<i>Eucalyptus leucoxylon</i>	Vic. Native	11	4	No	No - Planted
35	<i>Eucalyptus leucoxylon</i>	Vic. Native	18	4	No	No - Planted
36	<i>Eucalyptus melliodora</i>	Vic. Native	32.56	13	No	No - Planted
37	<i>Eucalyptus camaldulensis</i>	Vic. Native	22	8	No	No - Planted
38	<i>Eucalyptus sideroxylon</i>	Vic. Native	39	14	No	No - Planted
39	<i>Eucalyptus cladocalyx</i>	Aus. Native	55	18	Unsure	No - Planted
40	<i>Eucalyptus cladocalyx</i>	Aus. Native	62	16	Unsure	No - Planted
41	<i>Eucalyptus leucoxylon</i>	Vic. Native	13	5	No	No - Planted
42	<i>Eucalyptus melliodora</i>	Vic. Native	27.59	9	No	No - Planted
43	<i>Eucalyptus cladocalyx</i>	Aus. Native	79	18	Unsure	No - Planted
44	<i>Eucalyptus melliodora</i>	Vic. Native	29.73	10	No	No - Planted
45	<i>Eucalyptus melliodora</i>	Vic. Native	30.81	12	No	No - Planted
46	<i>Eucalyptus melliodora</i>	Vic. Native	18	9	No	No - Planted
47	<i>Eucalyptus bicostata</i>	Vic. Native	47	14	No	No - Planted
48	<i>Callistemon sp.</i>	Aus. Native	10	2	No	No - Planted



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Tree Id	Botanical Name	Origin	DBH (cm)	Tree Height (m)	Local Law No. 2	52.17
49	<i>Eucalyptus cladocalyx</i>	Aus. Native	90	18	Unsure	No - Planted
50	<i>Eucalyptus leucoxydon</i>	Vic. Native	14	5	No	No - Planted
51	<i>Eucalyptus leucoxydon</i>	Vic. Native	22	10	No	No - Planted
52	<i>Eucalyptus melliodora</i>	Vic. Native	19	7	No	No - Planted
53	<i>Eucalyptus melliodora</i>	Vic. Native	24	9	No	No - Planted
54	<i>Corymbia maculata</i>	Vic. Native	31	14	No	No - Planted
55	<i>Eucalyptus camaldulensis</i>	Vic. Native	24	12	No	No - Planted
56	<i>Melaleuca armillaris</i>	Vic. Native	17.12	3	No	No - Planted
57	<i>Eucalyptus cladocalyx</i>	Aus. Native	64	18	Unsure	No - Planted
58	<i>Eucalyptus cladocalyx</i>	Aus. Native	41	15	Unsure	No - Planted
59	<i>Corymbia maculata</i>	Vic. Native	34	15	Unsure	No - Planted
60	<i>Corymbia maculata</i>	Vic. Native	36	17	Unsure	No - Planted
61	<i>Corymbia maculata</i>	Vic. Native	34	16	Unsure	No - Planted
62	<i>Corymbia maculata</i>	Vic. Native	38	17	Unsure	No - Planted
63	<i>Eucalyptus leucoxydon</i>	Vic. Native	35	8	No	No - Planted
64	<i>Eucalyptus camaldulensis</i>	Vic. Native	39	10	No	No - Planted
65	<i>Corymbia maculata</i>	Vic. Native	39	12	No	No - Planted
66	<i>Corymbia maculata</i>	Vic. Native	53	17	Unsure	No - Planted
67	N/A	Aus. Native	5	2	No	No - Planted
68	<i>Acacia implexa</i>	Vic. Native	5	2	No	No - Planted
69	<i>Acacia implexa</i>	Vic. Native	8	4	No	No - Planted
70	<i>Eucalyptus scoparia</i>	Aus. Native	25	8	No	No - Planted
71	<i>Corymbia maculata</i>	Vic. Native	44	12	No	No - Planted
72	<i>Corymbia citriodora</i>	Aus. Native	42	13	No	No - Planted
73	<i>Corymbia citriodora</i>	Aus. Native	37	16	Unsure	No - Planted
74	<i>Eucalyptus gomphocephala</i>	Aus. Native	79.25	17	Unsure	No - Planted
75	<i>Corymbia maculata</i>	Vic. Native	44	16	Unsure	No - Planted
76	<i>Corymbia maculata</i>	Vic. Native	65	18	Unsure	No - Planted
77	<i>Corymbia maculata</i>	Vic. Native	36	6	No	No - Planted
78	<i>Corymbia maculata</i>	Vic. Native	59	13	Unsure	No - Planted
79	<i>Eucalyptus tricarpa</i>	Vic. Native	67	13	Unsure	No - Planted
80	<i>Corymbia maculata</i>	Vic. Native	46	14	No	No - Planted
81	<i>Corymbia maculata</i>	Vic. Native	29	8	No	No - Planted
82	<i>Corymbia maculata</i>	Vic. Native	18.79	5	No	No - Planted
83	<i>Corymbia citriodora</i>	Aus. Native	25	11	No	No - Planted
84	<i>Acacia implexa</i>	Vic. Native	0	1	No	No - Planted
85	<i>Platycladus orientalis</i>	Exotic	15.72	4	No	No - Exotic
86	<i>Corymbia maculata</i>	Vic. Native	25	9	No	No - Planted
87	<i>Corymbia maculata</i>	Vic. Native	30	10	No	No - Planted
88	<i>Eucalyptus cladocalyx</i>	Aus. Native	93	13	Unsure	No - Planted
89	<i>Melaleuca bracteata</i>	Aus. Native	12	4	No	No - Planted



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Tree Id	Botanical Name	Origin	DBH (cm)	Tree Height (m)	Local Law No. 2	52.17
90	<i>Callistemon sp.</i>	Aus. Native	25	6	No	No - Planted
91	<i>Callistemon sp.</i>	Aus. Native	11.66	4	No	No - Planted
92	<i>Callistemon sp.</i>	Aus. Native	18.36	5	No	No - Planted
93	<i>Agonis flexuosa</i>	Aus. Native	34.86	5	No	No - Planted
94	<i>Photinia sp.</i>	Exotic	15	2	No	No - Exotic
95	<i>Callistemon sp.</i>	Aus. Native	11.31	4	No	No - Planted
96	<i>Corymbia maculata</i>	Vic. Native	53	12	Unsure	No - Planted
97	<i>Acacia implexa</i>	Vic. Native	13.19	6	No	No - Planted
98	<i>Corymbia maculata</i>	Vic. Native	48	14	No	No - Planted
99	<i>Acacia implexa</i>	Vic. Native	5	2	No	No - Planted
100	<i>Acacia implexa</i>	Vic. Native	5	3	No	No - Planted
101	<i>Fraxinus angustifolia subsp. Oxycarpa</i>	Exotic	5	3	No	No - Exotic
102	<i>Acacia melanoxylon</i>	Vic. Native	19	8	No	No - Planted
103	N/A	Exotic	10	3	No	No - Exotic
104	<i>Melaleuca styphelioides</i>	Aus. Native	70	10	Unsure	No - Planted
105	<i>Corymbia maculata</i>	Vic. Native	72	17	Unsure	No - Planted
106	<i>Pittosporum tenuifolium</i>	Exotic	18	3	No	No - Exotic
107	<i>Pittosporum tenuifolium</i>	Exotic	18	3	No	No - Exotic
108	<i>Pittosporum sp.</i>	Exotic	18	2	No	No - Exotic
109	<i>Trachycarpus fortunei</i>	Exotic	22	7	No	No - Exotic
110	N/A	Exotic	15	2	No	No - Exotic
111	<i>Ficus sp.</i>	Aus. Native	5	3	No	No - Planted
112	<i>Melaleuca sp.</i>	Aus. Native	15	3	No	No - Planted
113	<i>Acacia implexa</i>	Vic. Native	15	4	No	No - Planted
114	<i>Acacia implexa</i>	Vic. Native	24	9	No	No - Planted
115	<i>Acacia melanoxylon</i>	Vic. Native	21	9	No	No - Planted
116	<i>Acacia implexa</i>	Vic. Native	28	13	No	No - Planted
117	<i>Acer palmatum</i>	Exotic	33.24	7	No	No - Exotic
118	<i>Prunus sp.</i>	Exotic	20	2	No	No - Exotic
119	<i>Acacia implexa</i>	Vic. Native	8	3	No	No - Planted
120	<i>Olea europaea</i>	Exotic	25	5	No	No - Exotic
121	<i>Acer palmatum</i>	Exotic	19	4	No	No - Exotic
122	<i>Eucalyptus cladocalyx</i>	Aus. Native	65.18	17	Unsure	No - Planted
123	<i>Eucalyptus cladocalyx</i>	Aus. Native	35.81	14	No	No - Planted
124	<i>Eucalyptus cladocalyx</i>	Aus. Native	63.7	17	Unsure	No - Planted
125	<i>Eucalyptus cladocalyx</i>	Aus. Native	40.4	9	No	No - Planted
126	<i>Eucalyptus cladocalyx</i>	Aus. Native	59.78	14	Unsure	No - Planted
127	<i>Eucalyptus cladocalyx</i>	Aus. Native	59	14	Unsure	No - Planted
128	<i>Eucalyptus cladocalyx</i>	Aus. Native	67	17	Unsure	No - Planted
129	<i>Eucalyptus saligna</i>	Aus. Native	34	10	No	No - Planted
130	<i>Eucalyptus sp.</i>	Aus. Native	40	9	No	No - Planted





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Tree Id	Botanical Name	Origin	DBH (cm)	Tree Height (m)	Local Law No. 2	52.17
131	<i>Eucalyptus cladocalyx</i>	Aus. Native	114	18	Unsure	No - Planted
132	<i>Eucalyptus sp.</i>	Aus. Native	14	7	No	No - Planted
133	<i>Eucalyptus tricarpa</i>	Vic. Native	53	8	Unsure	No - Planted
134	<i>Eucalyptus sideroxylon</i>	Vic. Native	33	6	No	No - Planted
135	<i>Eucalyptus tricarpa</i>	Vic. Native	42	12	No	No - Planted
136	<i>Corymbia maculata</i>	Vic. Native	67	19	Unsure	No - Planted
137	<i>Corymbia maculata</i>	Vic. Native	39	15	Unsure	No - Planted
138	<i>Corymbia maculata</i>	Vic. Native	39	10	No	No - Planted
139	<i>Corymbia maculata</i>	Vic. Native	39.05	9	No	No - Planted
140	<i>Corymbia maculata</i>	Vic. Native	28	12	No	No - Planted
141	<i>Corymbia maculata</i>	Vic. Native	43.6	6	No	No - Planted
142	<i>Corymbia citriodora</i>	Aus. Native	50	14	Unsure	No - Planted
143	<i>Eucalyptus globulus</i>	Vic. Native	76	16	Unsure	No - Planted
144	<i>Eucalyptus cladocalyx</i>	Aus. Native	33	9	No	No - Planted
145	<i>Corymbia maculata</i>	Vic. Native	33	10	No	No - Planted
146	<i>Corymbia maculata</i>	Vic. Native	15.62	4	No	No - Planted
147	<i>Schinus molle</i>	Exotic	45	5	No	No - Exotic
148	<i>Corymbia citriodora</i>	Aus. Native	37	15	Unsure	No - Planted
149	<i>Corymbia maculata</i>	Vic. Native	60	12	Unsure	No - Planted
150	<i>Corymbia maculata</i>	Vic. Native	49	12	No	No - Planted
151	<i>Corymbia maculata</i>	Vic. Native	19	7	No	No - Planted
152	<i>Corymbia maculata</i>	Vic. Native	52	13	Unsure	No - Planted
153	<i>Corymbia maculata</i>	Vic. Native	64	12	Unsure	No - Planted
154	<i>Corymbia citriodora</i>	Aus. Native	43	14	No	No - Planted
155	<i>Corymbia maculata</i>	Vic. Native	8	5	No	No - Planted
156	<i>Corymbia maculata</i>	Vic. Native	53	14	Unsure	No - Planted
157	<i>Corymbia maculata</i>	Vic. Native	52	15	Unsure	No - Planted
158	<i>Corymbia maculata</i>	Vic. Native	27	9	No	No - Planted
159	<i>Corymbia maculata</i>	Vic. Native	53.38	10	Unsure	No - Planted
160	<i>Corymbia citriodora</i>	Aus. Native	24.1	7	No	No - Planted
161	<i>Eucalyptus sideroxylon</i>	Vic. Native	76.16	14	Unsure	No - Planted
162	<i>Eucalyptus sideroxylon</i>	Vic. Native	67.94	16	Unsure	No - Planted
163	<i>Corymbia maculata</i>	Vic. Native	33	10	No	No - Planted
164	<i>Corymbia maculata</i>	Vic. Native	55	12	Unsure	No - Planted
165	<i>Corymbia maculata</i>	Vic. Native	33	10	No	No - Planted
166	<i>Corymbia maculata</i>	Vic. Native	44	12	No	No - Planted
167	<i>Corymbia maculata</i>	Vic. Native	30	9	No	No - Planted
168	<i>Corymbia maculata</i>	Vic. Native	23.43	8	No	No - Planted
169	<i>Eucalyptus cladocalyx</i>	Aus. Native	94	13	Unsure	No - Planted
170	<i>Corymbia maculata</i>	Vic. Native	21	8	No	No - Planted
171	<i>Corymbia maculata</i>	Vic. Native	37	8	No	No - Planted



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Tree Id	Botanical Name	Origin	DBH (cm)	Tree Height (m)	Local Law No. 2	52.17
172	<i>Corymbia maculata</i>	Vic. Native	17	9	No	No - Planted
173	<i>Corymbia maculata</i>	Vic. Native	20	7	No	No - Planted
174	<i>Corymbia maculata</i>	Vic. Native	45	11	No	No - Planted
175	<i>Eucalyptus cladocalyx</i>	Aus. Native	111	18	Unsure	No - Planted
176	<i>Eucalyptus cladocalyx</i>	Aus. Native	109	17	Unsure	No - Planted
177	<i>Eucalyptus cladocalyx</i>	Aus. Native	87	15	Unsure	No - Planted
178	<i>Eucalyptus cladocalyx</i>	Aus. Native	45	12	No	No - Planted
179	<i>Eucalyptus sp.</i>	Aus. Native	28	6	No	No - Planted
180	<i>Callistemon sp.</i>	Aus. Native	15	3	No	No - Planted



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## Observations

A total of 180 individual trees or groups of trees were assessed for this report: 178 trees are located within the boundaries of the subject site and two trees are located in a neighbouring property to the northeast (Figure 1). See **Appendix A** for tree locations. Detailed observations for individual trees are listed in **Appendix B**, and see **Appendix C** for glossary of terms.



Figure 1. Site Overview and tree locations.

Yellow – trees located onsite; Blue – trees located in neighbouring properties

## Tree Population Overview

The trees assessed are semi mature (56% of the tree population) and mature (44%) in age. The trees are a mix of Victorian native (60%), Australian native (32%), and exotic (8%) species. The tree population is comprised of 36 different species, with *Corymbia maculata* (Spotted Gum) the most extensively planted species onsite. A number of species could only be identified to a genus level due to a lack of identifiable features (leaves, flowers, fruit).



## Health

The health of the trees is assessed as fair (61%), good (29%), and poor (10%). Most trees are presenting with good leaf size, colour, and crown density; all of which are indicators of good vigour and vitality.

## Structure

The structure of the trees is assessed fair (67%), poor (31%), and good (2%). Most trees present with strong and open branch attachments and are generally free of above ground defects.

## Tree Retention Value

A total of 37 trees were found with attributes that warrant a high retention value. A further 62 trees have a medium retention value, 79 trees have a low retention value, and two trees are third party trees located on a neighbouring property. If the site is to be developed, trees located on neighbouring properties must be protected during construction. See Table 3 below for individual tree retention values.

**Table 3. Individual Tree Retention Values**

Retention Value	Tree Id
High	1, 10, 11, 16, 20, 27, 39, 43, 47, 49, 57, 59, 61- 63, 66, 75, 76, 78-80, 98, 105, 126, 128, 136, 142, 143, 148, 152, 154, 156, 164, 165, 174, 175- 176
Medium	3-9, 12-14, 17-19, 22-26, 32, 33, 36, 38, 40, 42, 44-46, 52, 53, 55, 60, 64, 65, 70-74, 81, 83, 86-88, 96, 102, 127, 130, 131, 137, 140, 144, 149, 150, 157, 161-163, 166, 167, 170, 172, 173
Low	2, 15, 21, 28-31, 34, 35, 37, 41, 48, 50, 51, 54, 56, 58, 67-69, 77, 82, 84, 85, 89-95, 97, 99-101, 103, 104, 106-125, 129, 132-135, 138, 139, 141, 145, 146, 147, 151, 153, 155, 158-160, 168, 169, 171, 177, 180
Third Party	178, 179





## Tree Protection Zones

A Tree Protection Zone (TPZ), as stated by the Australian Standard AS4970-2009, Protection of trees on development sites, is the principal means of protection of trees on development site. The TPZ is a combination of the root area and crown area requiring protection. It is an area isolated from construction disturbance, so that the tree remains viable.

The Australian Standard AS4970-2009 is being used in assessing the protection areas for each tree as it describes the best practices for the planning and protection of trees on development sites.

**Table 4. Individual TPZ's and SRZ's**

Tree Id	Botanical Name	TPZ Radius (m)	SRZ Radius (m)
1	<i>Eucalyptus cladocalyx</i>	8.4	3.01
2	<i>Eucalyptus melliodora</i>	4.58	2.37
3	<i>Eucalyptus melliodora</i>	3.24	2.05
4	<i>Corymbia citriodora</i>	5.04	2.51
5	<i>Corymbia citriodora</i>	6	2.67
6	<i>Eucalyptus lehmannii</i>	4.16	2.15
7	<i>Corymbia maculata</i>	3.72	2.15
8	<i>Eucalyptus melliodora</i>	2.76	2
9	<i>Eucalyptus camaldulensis</i>	2.64	2.13
10	<i>Eucalyptus cladocalyx</i>	7.56	2.88
11	<i>Eucalyptus cladocalyx</i>	5.64	2.65
12	<i>Eucalyptus melliodora</i>	2	1.72
13	<i>Eucalyptus melliodora</i>	2.91	1.91
14	<i>Eucalyptus camaldulensis</i>	4.2	2.43
15	<i>Eucalyptus sideroxylon</i>	2.76	2.02
16	<i>Eucalyptus cladocalyx</i>	7.08	2.9
17	<i>Eucalyptus leucoxylon</i>	3.48	2.18
18	<i>Eucalyptus melliodora</i>	2.04	1.75
19	<i>Eucalyptus camaldulensis</i>	2.68	2.05
20	<i>Eucalyptus cladocalyx</i>	9.48	3.15
21	<i>Eucalyptus sp.</i>	2	2.85
22	<i>Eucalyptus melliodora</i>	2	1.79
23	<i>Eucalyptus melliodora</i>	2	1.82
24	<i>Eucalyptus camaldulensis</i>	2.52	2.08
25	<i>Eucalyptus camaldulensis</i>	3.72	2.39
26	<i>Eucalyptus sideroxylon</i>	2.88	2
27	<i>Eucalyptus cladocalyx</i>	5.88	2.63



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Tree Id	Botanical Name	TPZ Radius (m)	SRZ Radius (m)
28	<i>Eucalyptus cladocalyx</i>	8.04	3.04
29	<i>Eucalyptus leucoxylon</i>	2	1.5
30	<i>Eucalyptus leucoxylon</i>	2	1.5
31	<i>Eucalyptus melliodora</i>	2	1.5
32	<i>Eucalyptus sideroxylon</i>	3.96	2.3
33	<i>Eucalyptus cladocalyx</i>	7.44	2.98
34	<i>Eucalyptus leucoxylon</i>	2	1.57
35	<i>Eucalyptus leucoxylon</i>	2.16	1.88
36	<i>Eucalyptus melliodora</i>	3.91	2.13
37	<i>Eucalyptus camaldulensis</i>	2.64	2.23
38	<i>Eucalyptus sideroxylon</i>	4.68	2.18
39	<i>Eucalyptus cladocalyx</i>	6.6	2.8
40	<i>Eucalyptus cladocalyx</i>	7.44	2.93
41	<i>Eucalyptus leucoxylon</i>	2	1.65
42	<i>Eucalyptus melliodora</i>	3.31	1.97
43	<i>Eucalyptus cladocalyx</i>	9.48	3.25
44	<i>Eucalyptus melliodora</i>	3.57	2.18
45	<i>Eucalyptus melliodora</i>	3.7	2.1
46	<i>Eucalyptus melliodora</i>	2.16	1.82
47	<i>Eucalyptus bicostata</i>	5.64	2.73
48	<i>Callistemon sp.</i>	2	1.5
49	<i>Eucalyptus cladocalyx</i>	10.8	3.36
50	<i>Eucalyptus leucoxylon</i>	2	1.65
51	<i>Eucalyptus leucoxylon</i>	2.64	2
52	<i>Eucalyptus melliodora</i>	2.28	1.79
53	<i>Eucalyptus melliodora</i>	2.88	2.02
54	<i>Corymbia maculata</i>	3.72	2.32
55	<i>Eucalyptus camaldulensis</i>	2.88	2.13
56	<i>Melaleuca armillaris</i>	2.05	1.88
57	<i>Eucalyptus cladocalyx</i>	7.68	3.01
58	<i>Eucalyptus cladocalyx</i>	4.92	2.43
59	<i>Corymbia maculata</i>	4.08	2.3
60	<i>Corymbia maculata</i>	4.32	2.41
61	<i>Corymbia maculata</i>	4.08	2.28
62	<i>Corymbia maculata</i>	4.56	2.43
63	<i>Eucalyptus leucoxylon</i>	4.2	2.18
64	<i>Eucalyptus camaldulensis</i>	4.68	2.59
65	<i>Corymbia maculata</i>	4.68	2.45
66	<i>Corymbia maculata</i>	6.36	2.85
67	N/A	2	1.5
68	<i>Acacia implexa</i>	2	1.5
69	<i>Acacia implexa</i>	2	1.5



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Tree Id	Botanical Name	TPZ Radius (m)	SRZ Radius (m)
70	<i>Eucalyptus scoparia</i>	3	2.13
71	<i>Corymbia maculata</i>	5.28	2.55
72	<i>Corymbia citriodora</i>	5.04	2.47
73	<i>Corymbia citriodora</i>	4.44	2.41
74	<i>Eucalyptus gomphocephala</i>	9.51	3.18
75	<i>Corymbia maculata</i>	5.28	2.51
76	<i>Corymbia maculata</i>	7.8	3.01
77	<i>Corymbia maculata</i>	4.32	2.37
78	<i>Corymbia maculata</i>	7.08	3.11
79	<i>Eucalyptus tricarpa</i>	8.04	2.87
80	<i>Corymbia maculata</i>	5.52	2.57
81	<i>Corymbia maculata</i>	3.48	2.2
82	<i>Corymbia maculata</i>	2.25	1.82
83	<i>Corymbia citriodora</i>	3	2.05
84	<i>Acacia implexa</i>	2	1.5
85	<i>Platycladus orientalis</i>	2	1.72
86	<i>Corymbia maculata</i>	3	2.05
87	<i>Corymbia maculata</i>	3.6	2.13
88	<i>Eucalyptus cladocalyx</i>	11.16	3.39
89	<i>Melaleuca bracteata</i>	2	1.5
90	<i>Callistemon sp.</i>	3	1.85
91	<i>Callistemon sp.</i>	2	1.5
92	<i>Callistemon sp.</i>	2.2	1.82
93	<i>Agonis flexuosa</i>	4.18	2.2
94	<i>Photinia sp.</i>	2	1.5
95	<i>Callistemon sp.</i>	2	1.5
96	<i>Corymbia maculata</i>	6.36	2.71
97	<i>Acacia implexa</i>	2	1.65
98	<i>Corymbia maculata</i>	5.76	2.65
99	<i>Acacia implexa</i>	2	1.5
100	<i>Acacia implexa</i>	2	1.5
101	<i>Fraxinus angustifolia subsp. Oxycarpa</i>	2	1.5
102	<i>Acacia melanoxylon</i>	2.28	1.82
103	N/A	2	1.5
104	<i>Melaleuca styphelioides</i>	8.4	2.85
105	<i>Corymbia maculata</i>	8.64	3.11
106	<i>Pittosporum tenuifolium</i>	2.16	1.61
107	<i>Pittosporum tenuifolium</i>	2.16	1.61
108	<i>Pittosporum sp.</i>	2.16	1.61
109	<i>Trachycarpus fortunei</i>	3	N/A
110	N/A	2	1.68



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Tree Id	Botanical Name	TPZ Radius (m)	SRZ Radius (m)
111	<i>Ficus sp.</i>	2	1.5
112	<i>Melaleuca sp.</i>	2	1.5
113	<i>Acacia implexa</i>	2	1.61
114	<i>Acacia implexa</i>	2.88	2
115	<i>Acacia melanoxylon</i>	2.52	1.91
116	<i>Acacia implexa</i>	3.36	2.13
117	<i>Acer palmatum</i>	3.99	2.13
118	<i>Prunus sp.</i>	2.4	1.68
119	<i>Acacia implexa</i>	2	1.5
120	<i>Olea europaea</i>	3	1.85
121	<i>Acer palmatum</i>	2.28	1.65
122	<i>Eucalyptus cladocalyx</i>	7.82	3.44
123	<i>Eucalyptus cladocalyx</i>	4.3	2.3
124	<i>Eucalyptus cladocalyx</i>	7.64	3.09
125	<i>Eucalyptus cladocalyx</i>	4.85	2.74
126	<i>Eucalyptus cladocalyx</i>	7.17	2.71
127	<i>Eucalyptus cladocalyx</i>	7.08	2.78
128	<i>Eucalyptus cladocalyx</i>	8.04	3.01
129	<i>Eucalyptus saligna</i>	4.08	2.43
130	<i>Eucalyptus sp.</i>	4.8	2.43
131	<i>Eucalyptus cladocalyx</i>	13.68	3.6
132	<i>Eucalyptus sp.</i>	2	1.57
133	<i>Eucalyptus tricarpa</i>	6.36	2.59
134	<i>Eucalyptus sideroxylon</i>	3.96	2.18
135	<i>Eucalyptus tricarpa</i>	5.04	2.47
136	<i>Corymbia maculata</i>	8.04	3
137	<i>Corymbia maculata</i>	4.68	2.47
138	<i>Corymbia maculata</i>	4.68	2.55
139	<i>Corymbia maculata</i>	4.69	2.43
140	<i>Corymbia maculata</i>	3.36	2.18
141	<i>Corymbia maculata</i>	5.23	2.39
142	<i>Corymbia citriodora</i>	6	2.69
143	<i>Eucalyptus globulus</i>	9.12	3.06
144	<i>Eucalyptus cladocalyx</i>	3.96	2.3
145	<i>Corymbia maculata</i>	3.96	2.32
146	<i>Corymbia maculata</i>	2	1.61
147	<i>Schinus molle</i>	5.4	2.37
148	<i>Corymbia citriodora</i>	4.44	2.39
149	<i>Corymbia maculata</i>	7.2	2.67
150	<i>Corymbia maculata</i>	5.88	2.45
151	<i>Corymbia maculata</i>	2.28	1.88
152	<i>Corymbia maculata</i>	6.24	2.73



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Tree Id	Botanical Name	TPZ Radius (m)	SRZ Radius (m)
153	<i>Corymbia maculata</i>	7.68	2.74
154	<i>Corymbia citriodora</i>	5.16	2.71
155	<i>Corymbia maculata</i>	2	1.5
156	<i>Corymbia maculata</i>	6.36	2.83
157	<i>Corymbia maculata</i>	6.24	2.83
158	<i>Corymbia maculata</i>	3.24	2.1
159	<i>Corymbia maculata</i>	6.41	2.83
160	<i>Corymbia citriodora</i>	2.89	1.88
161	<i>Eucalyptus sideroxylon</i>	9.14	2.97
162	<i>Eucalyptus sideroxylon</i>	8.15	2.88
163	<i>Corymbia maculata</i>	3.96	2.3
164	<i>Corymbia maculata</i>	6.6	2.73
165	<i>Corymbia maculata</i>	3.96	2.73
166	<i>Corymbia maculata</i>	5.28	2.59
167	<i>Corymbia maculata</i>	3.6	2.23
168	<i>Corymbia maculata</i>	2.81	1.94
169	<i>Eucalyptus cladocalyx</i>	11.28	3.22
170	<i>Corymbia maculata</i>	2.52	1.94
171	<i>Corymbia maculata</i>	4.44	2.18
172	<i>Corymbia maculata</i>	2.04	1.75
173	<i>Corymbia maculata</i>	2.4	1.88
174	<i>Corymbia maculata</i>	5.4	2.63
175	<i>Eucalyptus cladocalyx</i>	13.32	3.72
176	<i>Eucalyptus cladocalyx</i>	13.08	3.51
177	<i>Eucalyptus cladocalyx</i>	10.44	3.12
178	<i>Eucalyptus cladocalyx</i>	5.4	2.57
179	<i>Eucalyptus sp.</i>	3.36	2.15
180	<i>Callistemon sp.</i>	2	1.5

In calculating the radius for the Tree Protection Zones (TPZ), the DBH, measured at 1.4m from the ground, is multiplied by 12. The TPZ requirements are as follows:

- If the TPZ is encroached by less than 10%, the Australian Standard AS4970- 2009 states: *detailed root investigations should not be required.*
- If the TPZ is encroached by more than 10%, the Australian Standard AS4970-2009 states: *the project Arborist must demonstrate that the tree(s) would remain viable. The area lost to this encroachment should be compensated for elsewhere and contiguous with the TPZ.*

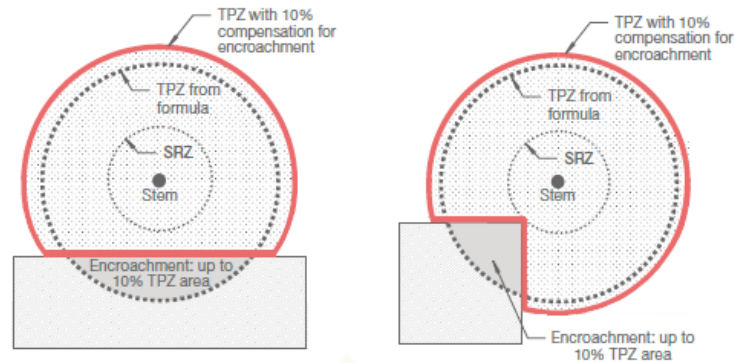


Figure 2. Examples of encroachment (AS4970-2009)

Structural Root Zone (SRZ) is the area around the base of the tree required for stability in the ground. These roots are fundamental for the trees structure and health. The standard states:

*“The area around the base of a tree required for the tree’s stability in the ground. The woody root growth and soil cohesion in this area are necessary to hold the tree upright. The SRZ is nominally circular with the trunk at its centre and is expressed by its radius in metres. This zone considers a tree’s structural stability only, not the root zone required for a tree’s vigour and long-term viability, which will usually be a much larger area.” (AS4970)*

To calculate the SRZ, the equation is  $(D \times 50)^{0.42} \times 0.64$ , where D is the Diameter at Base (DAB).

The effects of root loss or damage by any means could include:

- Loss of stability if structural woody roots or even lower order woody roots are cut
- Reduction in water and nutrient uptake
- An eventual loss of leaves, reduced photosynthesis and thus sugar production
- Decay as a result of wounding
- Predisposition to soil borne pathogens





## Conclusion

A total of 180 individual trees or groups of trees were assessed for this report. The main findings of the assessment were:

- The trees are generally in fair health, with no significant pest or disease observed.
- The structure of the trees is generally fair, with most trees presenting with strong and open branch and stem attachments.
- A total of 27 trees were found to have a high retention value.
- Some trees may require a permit for their removal under the Brimbank City Council Local Law No. 2. The council should be contacted for further clarification.
- All trees within the subject site were determined to be planted. No trees will require a permit for their removal under clause 52.17 of the Victorian Planning Scheme.

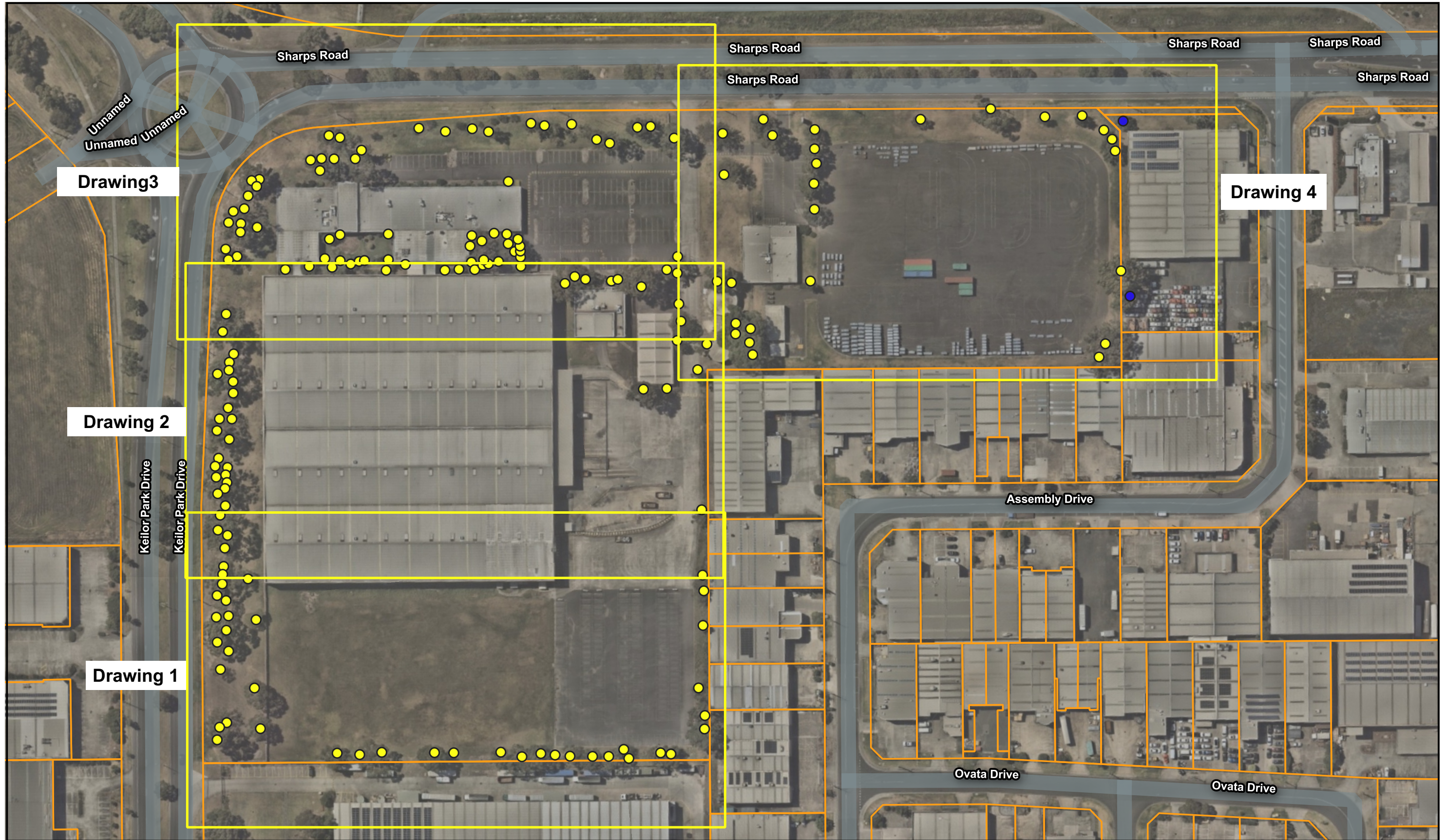
## Recommendations

If the subject site is to be developed, it is recommended that an arboricultural impact assessment is undertaken. This will aid in identifying which trees will be impacted by the proposed works and provide methods of reducing impacts to trees.

It is also recommended that a Tree Protection Management Plan (TPMP) is produced to ensure trees proposed for retention are not damaged during works. See **Appendix D** for Tree Protection Measures.

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**Preliminary Arboricultural Assessment**

Site Address  
85 Sharps Rd,  
Tullamarine

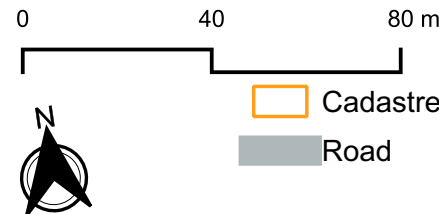
Prepared By  
Matthew P James  
Melbourne Tree Care

Date  
08/03/2024

Drawing  
Overview  
Scale  
1:1600 @A3

Coordinate Reference System (CRS)  
EPSG: 28355 GDA94/MGA Zone 55

Tree locations are approximate  
TPZ's and SRZ's calculated as  
per AS4970-2009



**Legend**

**Tree Location**

- Onsite
- Neighbouring property

- Cadastre
- Road

Melbourne Tree Care PTY LTD

Richmond, Victoria  
Australia 3121

Email: [info@melbournetreecare.com.au](mailto:info@melbournetreecare.com.au)







## Preliminary Arboricultural Assessment

Site Address  
85 Sharps Rd,  
Tullamarine

Prepared By  
Matthew P James  
Melbourne Tree Care

Date  
08/03/2024

Drawing  
1/4  
Scale  
1:600 @A3

Coordinate Reference System (CRS)  
EPSG: 28355 GDA94/MGA Zone 55

Tree locations are approximate  
TPZ's and SRZ's calculated as  
per AS4970-2009

0 10 20 m



**Retention Value**  
● High  
● Medium

### Legend

● Low  
● Third Party  
□ TPZ  
□ SRZ  
□ Cadastre  
■ Road

Melbourne Tree Care PTY LTD

Richmond, Victoria  
Australia 3121

Email: [info@melbournetreecare.com.au](mailto:info@melbournetreecare.com.au)







**Preliminary Arboricultural Assessment**

Site Address  
85 Sharps Rd,  
Tullamarine

Prepared By  
Matthew P James  
Melbourne Tree Care

Date  
08/03/2024

Drawing  
2/4  
Scale  
1:600 @A3

Coordinate Reference System (CRS)  
EPSG: 28355 GDA94/MGA Zone 55

Tree locations are approximate  
TPZ's and SRZ's calculated as  
per AS4970-2009

0 10 20 m



**Retention Value**  
● High  
● Medium

**Legend**

- Low
- Third Party
- TPZ
- SRZ
- Cadastre
- Road

Melbourne Tree Care PTY LTD

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### Preliminary Arboricultural Assessment

Site Address  
85 Sharps Rd,  
Tullamarine

Prepared By  
Matthew P James  
Melbourne Tree Care

Date  
08/03/2024

Drawing  
3/4  
Scale  
1:600 @A3

Coordinate Reference System (CRS)  
EPSG: 28355 GDA94/MGA Zone 55

Tree locations are approximate  
TPZ's and SRZ's calculated as  
per AS4970-2009

0 10 20 m



#### Retention Value

- High
- Medium

#### Legend

- Low
- Third Party
- TPZ
- SRZ
- Cadastre
- Road

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Richmond, Victoria  
Australia 3121

Email: [info@melbournetreecare.com.au](mailto:info@melbournetreecare.com.au)







### Preliminary Arboricultural Assessment

Site Address  
85 Sharps Rd,  
Tullamarine

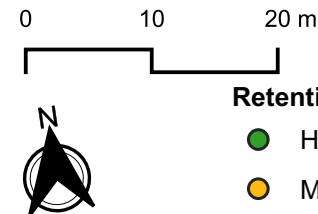
Prepared By  
Matthew P James  
Melbourne Tree Care

Date  
08/03/2024

Drawing  
4/4  
Scale  
1:600 @A3

Coordinate Reference System (CRS)  
EPSG: 28355 GDA94/MGA Zone 55

Tree locations are approximate  
TPZ's and SRZ's calculated as  
per AS4970-2009



### Legend

- |                        |               |            |
|------------------------|---------------|------------|
| <b>Retention Value</b> | ● Low         | ○ SRZ      |
| ● High                 | ● Third Party | ○ Cadastre |
| ● Medium               | ○ TPZ         | ■ Road     |

Melbourne Tree Care PTY LTD

Richmond, Victoria  
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Email: [info@melbournetreecare.com.au](mailto:info@melbournetreecare.com.au)

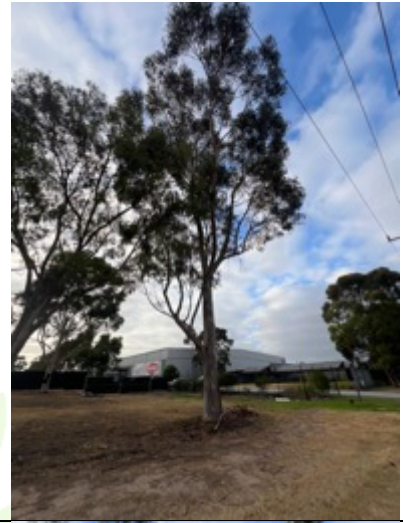




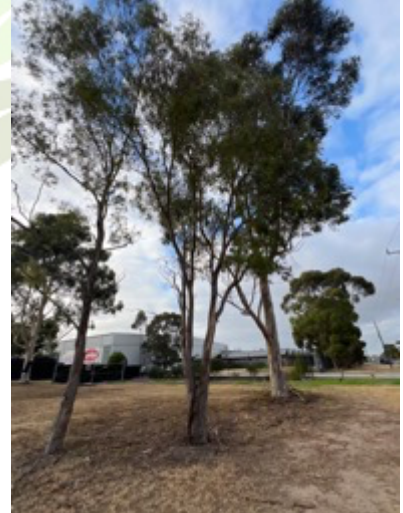


## Appendix B: Individual Tree Data

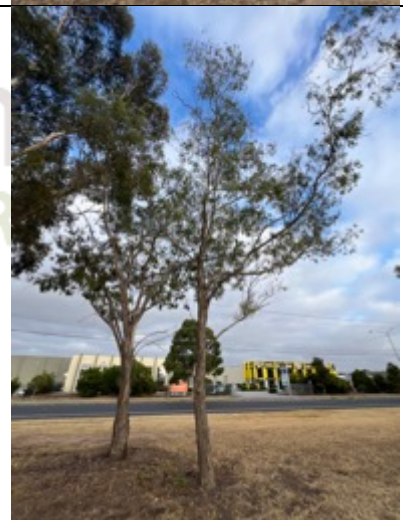
**Tree Id:** 1 **Location:** Onsite  
**Botanical Name:** *Eucalyptus cladocalyx* **DBH (cm):** 70  
**Common Name:** Sugar Gum **DaB (cm):** 80  
**Tree Height (m):** 18 **Canopy Spread (m):** 14  
**Health:** Fair **Structure:** Fair  
**Origin:** Aus. Native **Age:** Mature **ULE:** Medium  
**Retention Value:** High **TPZ (m):** 8.4 **SRZ (m):** 3.01  
**Observations:** Previous failures.



**Tree Id:** 2 **Location:** Onsite  
**Botanical Name:** *Eucalyptus melliodora* **DBH (cm):** 38.18  
**Common Name:** Yellow Box **DaB (cm):** 45  
**Tree Height (m):** 8 **Canopy Spread (m):** 7  
**Health:** Fair **Structure:** Poor  
**Origin:** Vic. Native **Age:** Semi mature **ULE:** Short  
**Retention Value:** Low **TPZ (m):** 4.58 **SRZ (m):** 2.37  
**Observations:** Included codominant stems. Wounds.



**Tree Id:** 3 **Location:** Onsite  
**Botanical Name:** *Eucalyptus melliodora* **DBH (cm):** 27  
**Common Name:** Yellow Box **DaB (cm):** 32  
**Tree Height (m):** 10 **Canopy Spread (m):** 6  
**Health:** Fair **Structure:** Fair  
**Origin:** Vic. Native **Age:** Semi mature **ULE:** Short  
**Retention Value:** Medium **TPZ (m):** 3.24 **SRZ (m):** 2.05  
**Observations:** In decline. Thin canopy.

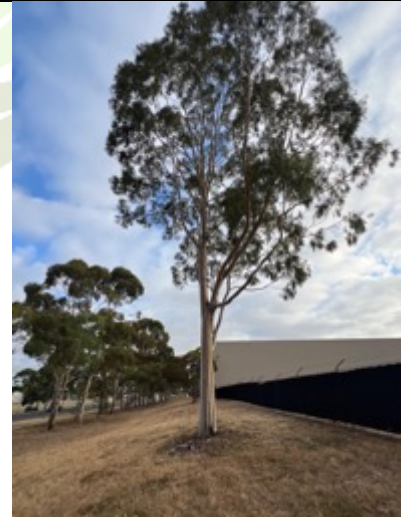




**Tree Id:** 4 **Location:** Onsite  
**Botanical Name:** *Corymbia citriodora* **DBH (cm):** 42  
**Common Name:** Lemon-scented Gum **DaB (cm):** 52  
**Tree Height (m):** 12 **Canopy Spread (m):** 12  
**Health:** Good **Structure:** Fair  
**Origin:** Aus. Native **Age:** Semi mature **ULE:** Medium  
**Retention Value:** Medium **TPZ (m):** 5.04 **SRZ (m):** 2.51  
**Observations:**



**Tree Id:** 5 **Location:** Onsite  
**Botanical Name:** *Corymbia citriodora* **DBH (cm):** 50  
**Common Name:** Lemon-scented Gum **DaB (cm):** 60  
**Tree Height (m):** 16 **Canopy Spread (m):** 12  
**Health:** Good **Structure:** Poor  
**Origin:** Aus. Native **Age:** Mature **ULE:** Short  
**Retention Value:** Medium **TPZ (m):** 6 **SRZ (m):** 2.67  
**Observations:** Included codominant stems. Previous failures



**Tree Id:** 6 **Location:** Onsite  
**Botanical Name:** *Eucalyptus lehmannii* **DBH (cm):** 34.66  
**Common Name:** Mallee **DaB (cm):** 36  
**Tree Height (m):** 6 **Canopy Spread (m):** 6  
**Health:** Fair **Structure:** Fair  
**Origin:** Aus. Native **Age:** Mature **ULE:** Short  
**Retention Value:** Medium **TPZ (m):** 4.16 **SRZ (m):** 2.15  
**Observations:** In decline. Previous failures. Wounds.





**Tree Id:** 7 **Location:** Onsite  
**Botanical Name:** *Corymbia maculata* **DBH (cm):** 31  
**Common Name:** Spotted Gum **DaB (cm):** 36  
**Tree Height (m):** 9 **Canopy Spread (m):** 7  
**Health:** Fair **Structure:** Fair  
**Origin:** Vic. Native **Age:** Semi mature **ULE:** Medium  
**Retention Value:** Medium **TPZ (m):** 3.72 **SRZ (m):** 2.15  
**Observations:**



**Tree Id:** 8 **Location:** Onsite  
**Botanical Name:** *Eucalyptus melliodora* **DBH (cm):** 23  
**Common Name:** Yellow Box **DaB (cm):** 30  
**Tree Height (m):** 8 **Canopy Spread (m):** 5  
**Health:** Fair **Structure:** Fair  
**Origin:** Vic. Native **Age:** Semi mature **ULE:** Short  
**Retention Value:** Medium **TPZ (m):** 2.76 **SRZ (m):** 2  
**Observations:** In decline. Thin canopy.



**Tree Id:** 9 **Location:** Onsite  
**Botanical Name:** *Eucalyptus camaldulensis* **DBH (cm):** 22  
**Common Name:** River Red Gum **DaB (cm):** 35  
**Tree Height (m):** 10 **Canopy Spread (m):** 6  
**Health:** Fair **Structure:** Fair  
**Origin:** Vic. Native **Age:** Semi mature **ULE:** Medium  
**Retention Value:** Medium **TPZ (m):** 2.64 **SRZ (m):** 2.13  
**Observations:**





























































































**Tree Id:** 100                      **Location:** Onsite  
**Botanical Name:** *Acacia implexa*                      **DBH (cm):** 5  
**Common Name:** Lightwood                      **DaB (cm):** 9  
**Tree Height (m):** 3                      **Canopy Spread (m):** 2  
**Health:** Fair                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Medium  
**Retention Value:** Low                      **TPZ (m):** 2                      **SRZ (m):** 1.5  
**Observations:**



**Tree Id:** 101                      **Location:** Onsite  
**Botanical Name:** *Fraxinus angustifolia subsp. Oxycarpa*                      **DBH (cm):** 5  
**Common Name:** Desert Ash                      **DaB (cm):** 8  
**Tree Height (m):** 3                      **Canopy Spread (m):** 2  
**Health:** Fair                      **Structure:** Fair  
**Origin:** Exotic                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 2                      **SRZ (m):** 1.5  
**Observations:** Weed species.



**Tree Id:** 102                      **Location:** Onsite  
**Botanical Name:** *Acacia melanoxylon*                      **DBH (cm):** 19  
**Common Name:** Blackwood                      **DaB (cm):** 24  
**Tree Height (m):** 8                      **Canopy Spread (m):** 4  
**Health:** Good                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Medium  
**Retention Value:** Medium                      **TPZ (m):** 2.28                      **SRZ (m):** 1.82  
**Observations:** Encroaching structure















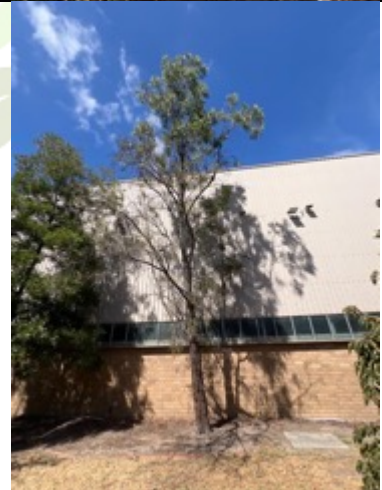




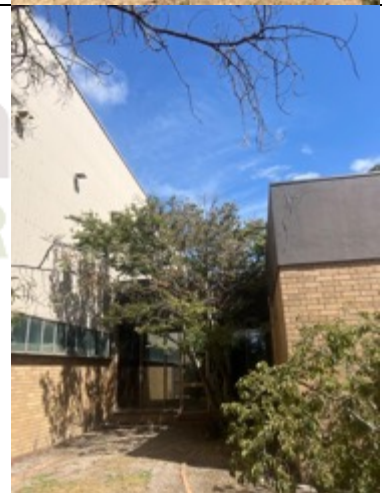
**Tree Id:** 115                      **Location:** Onsite  
**Botanical Name:** *Acacia melanoxylon*                      **DBH (cm):** 21  
**Common Name:** Blackwood                      **DaB (cm):** 27  
**Tree Height (m):** 9                      **Canopy Spread (m):** 8  
**Health:** Fair                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 2.52                      **SRZ (m):** 1.91  
**Observations:** In decline. Encroaching structure.



**Tree Id:** 116                      **Location:** Onsite  
**Botanical Name:** *Acacia implexa*                      **DBH (cm):** 28  
**Common Name:** Lightwood                      **DaB (cm):** 35  
**Tree Height (m):** 13                      **Canopy Spread (m):** 13  
**Health:** Poor                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 3.36                      **SRZ (m):** 2.13  
**Observations:** In decline.



**Tree Id:** 117                      **Location:** Onsite  
**Botanical Name:** *Acer palmatum*                      **DBH (cm):** 33.24  
**Common Name:** Japanese Maple                      **DaB (cm):** 35  
**Tree Height (m):** 7                      **Canopy Spread (m):** 6  
**Health:** Poor                      **Structure:** Fair  
**Origin:** Exotic                      **Age:** Mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 3.99                      **SRZ (m):** 2.13  
**Observations:** In decline. Dieback. Encroaching structure.







**Tree Id:** 121                      **Location:** Onsite  
**Botanical Name:** *Acer palmatum*                      **DBH (cm):** 19  
**Common Name:** Japanese Maple                      **DaB (cm):** 19  
**Tree Height (m):** 4                      **Canopy Spread (m):** 4  
**Health:** Fair                      **Structure:** Poor  
**Origin:** Exotic                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 2.28    **SRZ (m):** 1.65  
**Observations:** Included codominant stems. Encroaching structure.



**Tree Id:** 122                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus cladocalyx*                      **DBH (cm):** 65.18  
**Common Name:** Sugar Gum                      **DaB (cm):** 110  
**Tree Height (m):** 17                      **Canopy Spread (m):** 13  
**Health:** Good                      **Structure:** Poor  
**Origin:** Aus. Native                      **Age:** Mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 7.82    **SRZ (m):** 3.44  
**Observations:** Regrowth on old stump.



**Tree Id:** 123                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus cladocalyx*                      **DBH (cm):** 35.81  
**Common Name:** Sugar Gum                      **DaB (cm):** 42  
**Tree Height (m):** 14                      **Canopy Spread (m):** 10  
**Health:** Good                      **Structure:** Poor  
**Origin:** Aus. Native                      **Age:** Mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 4.3    **SRZ (m):** 2.3  
**Observations:** Regrowth on old stump.



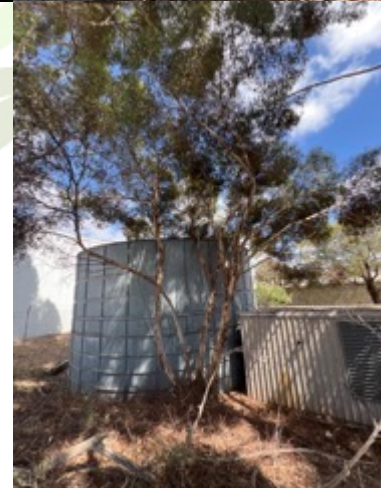




**Tree Id:** 124                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus cladocalyx*                      **DBH (cm):** 63.7  
**Common Name:** Sugar Gum                      **DaB (cm):** 85  
**Tree Height (m):** 17                      **Canopy Spread (m):** 14  
**Health:** Good                      **Structure:** Poor  
**Origin:** Aus. Native                      **Age:** Mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 7.64                      **SRZ (m):** 3.09  
**Observations:** Regrowth on old stump



**Tree Id:** 125                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus cladocalyx*                      **DBH (cm):** 40.4  
**Common Name:** Sugar Gum                      **DaB (cm):** 64  
**Tree Height (m):** 9                      **Canopy Spread (m):** 13  
**Health:** Good                      **Structure:** Poor  
**Origin:** Aus. Native                      **Age:** Mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 4.85                      **SRZ (m):** 2.74  
**Observations:** Regrowth on old stump. Encroaching structure.



**Tree Id:** 126                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus cladocalyx*                      **DBH (cm):** 59.78  
**Common Name:** Sugar Gum                      **DaB (cm):** 62  
**Tree Height (m):** 14                      **Canopy Spread (m):** 12  
**Health:** Good                      **Structure:** Fair  
**Origin:** Aus. Native                      **Age:** Mature                      **ULE:** Medium  
**Retention Value:** High                      **TPZ (m):** 7.17                      **SRZ (m):** 2.71  
**Observations:** Previous failures. Hanger.











**Tree Id:** 133                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus tricarpa*                      **DBH (cm):** 53  
**Common Name:** Red Ironbark                      **DaB (cm):** 56  
**Tree Height (m):** 8                      **Canopy Spread (m):** 9  
**Health:** Fair                      **Structure:** Poor  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 6.36    **SRZ (m):** 2.59

**Observations:** In decline. Thin canopy. Encroaching structure. Included codominant stems



**Tree Id:** 134                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus sideroxylon*                      **DBH (cm):** 33  
**Common Name:** Red Ironbark                      **DaB (cm):** 37  
**Tree Height (m):** 6                      **Canopy Spread (m):** 4  
**Health:** Poor                      **Structure:** Poor  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 3.96    **SRZ (m):** 2.18

**Observations:** In decline. Included codominant stems



**Tree Id:** 135                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus tricarpa*                      **DBH (cm):** 42  
**Common Name:** Red Ironbark                      **DaB (cm):** 50  
**Tree Height (m):** 12                      **Canopy Spread (m):** 9  
**Health:** Good                      **Structure:** Poor  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 5.04    **SRZ (m):** 2.47

**Observations:** Included codominant stems







**Tree Id:** 136                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 67  
**Common Name:** Spotted Gum                      **DaB (cm):** 79  
**Tree Height (m):** 19                      **Canopy Spread (m):** 17  
**Health:** Good                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Medium  
**Retention Value:** High                      **TPZ (m):** 8.04                      **SRZ (m):** 3  
**Observations:** Extended lateral branches. Previous failures



**Tree Id:** 137                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 39  
**Common Name:** Spotted Gum                      **DaB (cm):** 50  
**Tree Height (m):** 15                      **Canopy Spread (m):** 9  
**Health:** Poor                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Short  
**Retention Value:** Medium                      **TPZ (m):** 4.68                      **SRZ (m):** 2.47  
**Observations:** In decline. Dieback. Thin canopy. Reduced leaf size and colour.



**Tree Id:** 138                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 39  
**Common Name:** Spotted Gum                      **DaB (cm):** 54  
**Tree Height (m):** 10                      **Canopy Spread (m):** 6  
**Health:** Poor                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 4.68                      **SRZ (m):** 2.55  
**Observations:** In decline. Thin canopy. Encroaching structure





**Tree Id:** 139                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 39.05  
**Common Name:** Spotted Gum                      **DaB (cm):** 48  
**Tree Height (m):** 9                      **Canopy Spread (m):** 6  
**Health:** Fair                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 4.69                      **SRZ (m):** 2.43  
**Observations:** In decline. Thin canopy. Encroaching structure



**Tree Id:** 140                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 28  
**Common Name:** Spotted Gum                      **DaB (cm):** 37  
**Tree Height (m):** 12                      **Canopy Spread (m):** 4  
**Health:** Good                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Medium  
**Retention Value:** Medium                      **TPZ (m):** 3.36                      **SRZ (m):** 2.18  
**Observations:** Encroaching structure



**Tree Id:** 141                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 43.6  
**Common Name:** Spotted Gum                      **DaB (cm):** 46  
**Tree Height (m):** 6                      **Canopy Spread (m):** 14  
**Health:** Good                      **Structure:** Poor  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 5.23                      **SRZ (m):** 2.39  
**Observations:** Included codominant stems. Encroaching structure.







**Tree Id:** 142                      **Location:** Onsite  
**Botanical Name:** *Corymbia citriodora*                      **DBH (cm):** 50  
**Common Name:** Lemon-scented Gum                      **DaB (cm):** 61  
**Tree Height (m):** 14                      **Canopy Spread (m):** 14  
**Health:** Good                      **Structure:** Fair  
**Origin:** Aus. Native                      **Age:** Mature                      **ULE:** Medium  
**Retention Value:** High                      **TPZ (m):** 6                      **SRZ (m):** 2.69  
**Observations:** Encroaching structure



**Tree Id:** 143                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus globulus*                      **DBH (cm):** 76  
**Common Name:** Blue Gum                      **DaB (cm):** 83  
**Tree Height (m):** 16                      **Canopy Spread (m):** 15  
**Health:** Good                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Medium  
**Retention Value:** High                      **TPZ (m):** 9.12                      **SRZ (m):** 3.06  
**Observations:** Exudates.



**Tree Id:** 144                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus cladocalyx*                      **DBH (cm):** 33  
**Common Name:** Sugar Gum                      **DaB (cm):** 42  
**Tree Height (m):** 9                      **Canopy Spread (m):** 9  
**Health:** Good                      **Structure:** Fair  
**Origin:** Aus. Native                      **Age:** Semi mature                      **ULE:** Medium  
**Retention Value:** Medium                      **TPZ (m):** 3.96                      **SRZ (m):** 2.3  
**Observations:**





**Tree Id:** 145                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 33  
**Common Name:** Spotted Gum                      **DaB (cm):** 43  
**Tree Height (m):** 10                      **Canopy Spread (m):** 7  
**Health:** Fair                      **Structure:** Poor  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 3.96                      **SRZ (m):** 2.32  
**Observations:** In decline. Thin canopy. Basal wound. Previous failures.



**Tree Id:** 146                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 15.62  
**Common Name:** Spotted Gum                      **DaB (cm):** 18  
**Tree Height (m):** 4                      **Canopy Spread (m):** 2  
**Health:** Poor                      **Structure:** Poor  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 2                      **SRZ (m):** 1.61  
**Observations:** In decline. Dead stem



**Tree Id:** 147                      **Location:** Onsite  
**Botanical Name:** *Schinus molle*                      **DBH (cm):** 45  
**Common Name:** Peppercorn Tree                      **DaB (cm):** 45  
**Tree Height (m):** 5                      **Canopy Spread (m):** 7  
**Health:** Fair                      **Structure:** Fair  
**Origin:** Exotic                      **Age:** Semi mature                      **ULE:** Medium  
**Retention Value:** Low                      **TPZ (m):** 5.4                      **SRZ (m):** 2.37  
**Observations:**







**Tree Id:** 148                      **Location:** Onsite  
**Botanical Name:** *Corymbia citriodora*                      **DBH (cm):** 37  
**Common Name:** Lemon-scented Gum                      **DaB (cm):** 46  
**Tree Height (m):** 15                      **Canopy Spread (m):** 10  
**Health:** Fair                      **Structure:** Fair  
**Origin:** Aus. Native                      **Age:** Mature                      **ULE:** Medium  
**Retention Value:** High                      **TPZ (m):** 4.44                      **SRZ (m):** 2.39  
**Observations:**



**Tree Id:** 149                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 60  
**Common Name:** Spotted Gum                      **DaB (cm):** 60  
**Tree Height (m):** 12                      **Canopy Spread (m):** 8  
**Health:** Fair                      **Structure:** Poor  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Short  
**Retention Value:** Medium                      **TPZ (m):** 7.2                      **SRZ (m):** 2.67  
**Observations:** Included codominant stems



**Tree Id:** 150                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 49  
**Common Name:** Spotted Gum                      **DaB (cm):** 49  
**Tree Height (m):** 12                      **Canopy Spread (m):** 10  
**Health:** Fair                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Medium                      **TPZ (m):** 5.88                      **SRZ (m):** 2.45  
**Observations:** In decline. Dieback. Acute codominant stems





**Tree Id:** 151                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 19  
**Common Name:** Spotted Gum                      **DaB (cm):** 26  
**Tree Height (m):** 7                      **Canopy Spread (m):** 6  
**Health:** Poor                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 2.28                      **SRZ (m):** 1.88  
**Observations:** In decline. Dieback. Wounds. Exudates



**Tree Id:** 152                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 52  
**Common Name:** Spotted Gum                      **DaB (cm):** 63  
**Tree Height (m):** 13                      **Canopy Spread (m):** 11  
**Health:** Fair                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Medium  
**Retention Value:** High                      **TPZ (m):** 6.24                      **SRZ (m):** 2.73  
**Observations:** Previous failures



**Tree Id:** 153                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 64  
**Common Name:** Spotted Gum                      **DaB (cm):** 64  
**Tree Height (m):** 12                      **Canopy Spread (m):** 11  
**Health:** Fair                      **Structure:** Poor  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 7.68                      **SRZ (m):** 2.74  
**Observations:** In decline. Dieback. Acute codominant stems. Exudates







**Tree Id:** 154                      **Location:** Onsite  
**Botanical Name:** *Corymbia citriodora*                      **DBH (cm):** 43  
**Common Name:** Lemon-scented Gum                      **DaB (cm):** 62  
**Tree Height (m):** 14                      **Canopy Spread (m):** 11  
**Health:** Good                      **Structure:** Fair  
**Origin:** Aus. Native                      **Age:** Mature                      **ULE:** Medium  
**Retention Value:** High                      **TPZ (m):** 5.16                      **SRZ (m):** 2.71  
**Observations:**



**Tree Id:** 155                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 8  
**Common Name:** Spotted Gum                      **DaB (cm):** 10  
**Tree Height (m):** 5                      **Canopy Spread (m):** 1  
**Health:** Poor                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 2                      **SRZ (m):** 1.5  
**Observations:** In decline. Dieback



**Tree Id:** 156                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 53  
**Common Name:** Spotted Gum                      **DaB (cm):** 69  
**Tree Height (m):** 14                      **Canopy Spread (m):** 15  
**Health:** Good                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Medium  
**Retention Value:** High                      **TPZ (m):** 6.36                      **SRZ (m):** 2.83  
**Observations:**





**Tree Id:** 157                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 52  
**Common Name:** Spotted Gum                      **DaB (cm):** 69  
**Tree Height (m):** 15                      **Canopy Spread (m):** 17  
**Health:** Fair                      **Structure:** Poor  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Medium  
**Retention Value:** Medium                      **TPZ (m):** 6.24                      **SRZ (m):** 2.83  
**Observations:** Previous failures. Extended lateral branches. Tension wounds.



**Tree Id:** 158                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 27  
**Common Name:** Spotted Gum                      **DaB (cm):** 34  
**Tree Height (m):** 9                      **Canopy Spread (m):** 5  
**Health:** Poor                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 3.24                      **SRZ (m):** 2.1  
**Observations:** In decline. Dieback.



**Tree Id:** 159                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 53.38  
**Common Name:** Spotted Gum                      **DaB (cm):** 69  
**Tree Height (m):** 10                      **Canopy Spread (m):** 14  
**Health:** Fair                      **Structure:** Poor  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 6.41                      **SRZ (m):** 2.83  
**Observations:** Previous failures. Acute codominant stems.







**Tree Id:** 160                      **Location:** Onsite  
**Botanical Name:** *Corymbia citriodora*                      **DBH (cm):** 24.1  
**Common Name:** Lemon-scented Gum                      **DaB (cm):** 26  
**Tree Height (m):** 7                      **Canopy Spread (m):** 4  
**Health:** Good                      **Structure:** Poor  
**Origin:** Aus. Native                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 2.89                      **SRZ (m):** 1.88  
**Observations:** Included codominant stems. Regrowth on old stump



**Tree Id:** 161                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus sideroxylon*                      **DBH (cm):** 76.16  
**Common Name:** Red Ironbark                      **DaB (cm):** 77  
**Tree Height (m):** 14                      **Canopy Spread (m):** 12  
**Health:** Good                      **Structure:** Poor  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Short  
**Retention Value:** Medium                      **TPZ (m):** 9.14                      **SRZ (m):** 2.97  
**Observations:** Included codominant stems. Pruned for power line clearance



**Tree Id:** 162                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus sideroxylon*                      **DBH (cm):** 67.94  
**Common Name:** Red Ironbark                      **DaB (cm):** 72  
**Tree Height (m):** 16                      **Canopy Spread (m):** 15  
**Health:** Good                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Medium  
**Retention Value:** Medium                      **TPZ (m):** 8.15                      **SRZ (m):** 2.88  
**Observations:** Previous failures





**Tree Id:** 163                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 33  
**Common Name:** Spotted Gum                      **DaB (cm):** 42  
**Tree Height (m):** 10                      **Canopy Spread (m):** 6  
**Health:** Fair                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Medium                      **TPZ (m):** 3.96                      **SRZ (m):** 2.3  
**Observations:** In decline.



**Tree Id:** 164                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 55  
**Common Name:** Spotted Gum                      **DaB (cm):** 63  
**Tree Height (m):** 12                      **Canopy Spread (m):** 11  
**Health:** Good                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Medium  
**Retention Value:** High                      **TPZ (m):** 6.6                      **SRZ (m):** 2.73  
**Observations:** Previous failures



**Tree Id:** 165                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 33  
**Common Name:** Spotted Gum                      **DaB (cm):** 42  
**Tree Height (m):** 10                      **Canopy Spread (m):** 10  
**Health:** Good                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Medium  
**Retention Value:** High                      **TPZ (m):** 3.96                      **SRZ (m):** 2.73  
**Observations:** Previous failures. Hanger







**Tree Id:** 166                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 44  
**Common Name:** Spotted Gum                      **DaB (cm):** 56  
**Tree Height (m):** 12                      **Canopy Spread (m):** 10  
**Health:** Good                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Medium  
**Retention Value:** Medium                      **TPZ (m):** 5.28                      **SRZ (m):** 2.59  
**Observations:** Acute codominant stems.



**Tree Id:** 167                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 30  
**Common Name:** Spotted Gum                      **DaB (cm):** 39  
**Tree Height (m):** 9                      **Canopy Spread (m):** 6  
**Health:** Fair                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Medium  
**Retention Value:** Medium                      **TPZ (m):** 3.6                      **SRZ (m):** 2.23  
**Observations:**



**Tree Id:** 168                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 23.43  
**Common Name:** Spotted Gum                      **DaB (cm):** 28  
**Tree Height (m):** 8                      **Canopy Spread (m):** 4  
**Health:** Fair                      **Structure:** Poor  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 2.81                      **SRZ (m):** 1.94  
**Observations:** Included codominant stems





**Tree Id:** 169                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus cladocalyx*                      **DBH (cm):** 94  
**Common Name:** Sugar Gum                      **DaB (cm):** 94  
**Tree Height (m):** 13                      **Canopy Spread (m):** 16  
**Health:** Good                      **Structure:** Poor  
**Origin:** Aus. Native                      **Age:** Mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 11.28    **SRZ (m):** 3.22  
**Observations:** Previously lopped. Pruned for power line clearance.  
Decay. Previous failures. Exudates. Tension wounds.



**Tree Id:** 170                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 21  
**Common Name:** Spotted Gum                      **DaB (cm):** 28  
**Tree Height (m):** 8                      **Canopy Spread (m):** 4  
**Health:** Good                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Medium  
**Retention Value:** Medium                      **TPZ (m):** 2.52    **SRZ (m):** 1.94  
**Observations:**



**Tree Id:** 171                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 37  
**Common Name:** Spotted Gum                      **DaB (cm):** 37  
**Tree Height (m):** 8                      **Canopy Spread (m):** 4  
**Health:** Good                      **Structure:** Poor  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 4.44    **SRZ (m):** 2.18  
**Observations:** Included codominant stems. Pruned for power line clearance







**Tree Id:** 172                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 17  
**Common Name:** Spotted Gum                      **DaB (cm):** 22  
**Tree Height (m):** 9                      **Canopy Spread (m):** 3  
**Health:** Fair                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Medium  
**Retention Value:** Medium                      **TPZ (m):** 2.04                      **SRZ (m):** 1.75  
**Observations:**



**Tree Id:** 173                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 20  
**Common Name:** Spotted Gum                      **DaB (cm):** 25  
**Tree Height (m):** 7                      **Canopy Spread (m):** 4  
**Health:** Good                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Semi mature                      **ULE:** Medium  
**Retention Value:** Medium                      **TPZ (m):** 2.4                      **SRZ (m):** 1.88  
**Observations:**



**Tree Id:** 174                      **Location:** Onsite  
**Botanical Name:** *Corymbia maculata*                      **DBH (cm):** 45  
**Common Name:** Spotted Gum                      **DaB (cm):** 58  
**Tree Height (m):** 11                      **Canopy Spread (m):** 10  
**Health:** Good                      **Structure:** Fair  
**Origin:** Vic. Native                      **Age:** Mature                      **ULE:** Medium  
**Retention Value:** High                      **TPZ (m):** 5.4                      **SRZ (m):** 2.63  
**Observations:**





**Tree Id:** 175                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus cladocalyx*                      **DBH (cm):** 111  
**Common Name:** Sugar Gum                      **DaB (cm):** 132  
**Tree Height (m):** 18                      **Canopy Spread (m):** 18  
**Health:** Fair                      **Structure:** Fair  
**Origin:** Aus. Native                      **Age:** Mature                      **ULE:** Medium  
**Retention Value:** High                      **TPZ (m):** 13.32                      **SRZ (m):** 3.72  
**Observations:** Basal wound. Extended lateral branches.



**Tree Id:** 176                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus cladocalyx*                      **DBH (cm):** 109  
**Common Name:** Sugar Gum                      **DaB (cm):** 115  
**Tree Height (m):** 17                      **Canopy Spread (m):** 18  
**Health:** Fair                      **Structure:** Fair  
**Origin:** Aus. Native                      **Age:** Mature                      **ULE:** Medium  
**Retention Value:** High                      **TPZ (m):** 13.08                      **SRZ (m):** 3.51  
**Observations:** Encroaching structure. Acute codominant stems



**Tree Id:** 177                      **Location:** Onsite  
**Botanical Name:** *Eucalyptus cladocalyx*                      **DBH (cm):** 87  
**Common Name:** Sugar Gum                      **DaB (cm):** 87  
**Tree Height (m):** 15                      **Canopy Spread (m):** 14  
**Health:** Fair                      **Structure:** Poor  
**Origin:** Aus. Native                      **Age:** Mature                      **ULE:** Short  
**Retention Value:** Low                      **TPZ (m):** 10.44                      **SRZ (m):** 3.12  
**Observations:** Wound and extensive decay at main stem union.  
Encroaching structure







**Tree Id:** 178 **Location:** Neighbouring property

**Botanical Name:** *Eucalyptus cladocalyx* **DBH (cm):** 45

**Common Name:** Sugar Gum **DaB (cm):** 55

**Tree Height (m):** 12 **Canopy Spread (m):** 10

**Health:** Fair **Structure:** Poor

**Origin:** Aus. Native **Age:** Mature **ULE:** Short

**Retention Value:** Third Party **TPZ (m):** 5.4 **SRZ (m):** 2.57

**Observations:** Tree in neighbours. Assessed from distance. Basal wound.



**Tree Id:** 179 **Location:** Neighbouring property

**Botanical Name:** *Eucalyptus sp.* **DBH (cm):** 28

**Common Name:** Gum **DaB (cm):** 36

**Tree Height (m):** 6 **Canopy Spread (m):** 6

**Health:** Fair **Structure:** Fair

**Origin:** Aus. Native **Age:** Semi mature **ULE:** Medium

**Retention Value:** Third Party **TPZ (m):** 3.36 **SRZ (m):** 2.15

**Observations:** Tree in neighbours. Assessed from distance.



**Tree Id:** 180 **Location:** Onsite

**Botanical Name:** *Callistemon sp.* **DBH (cm):** 15

**Common Name:** Bottle Brush **DaB (cm):** 15

**Tree Height (m):** 3 **Canopy Spread (m):** 3

**Health:** Good **Structure:** Poor

**Origin:** Aus. Native **Age:** Semi mature **ULE:** Short

**Retention Value:** Low **TPZ (m):** 2 **SRZ (m):** 1.5

**Observations:** Hedged:shaped





## Appendix C: Glossary of Terms

### Age

Juvenile	Juvenile or recently planted approximately 1-7 years.
Semi Mature	Tree actively growing.
Mature	Tree has reached expected size in situation.
Senescent	Tree is over mature and has started to decline.

### Origin

Victorian native	Trees that are naturally occurring within Victoria
Australian native	Trees that are naturally occurring within Australia
Exotic	Trees that are not naturally occurring to any part of Australia

### USEFUL LIFE EXPECTANCY - ULE

**The useful life of a tree is an estimate of how long a tree is likely to remain in the landscape based on health, amenity and risk.**

**Long ULE** Trees that appear to be retainable with an acceptable level of risk for more than 40 years.

1. Structurally sound trees located in positions that can accommodate future growth.
2. Storm damaged or defective trees that could be made suitable for retention in the long term by remedial tree surgery.
3. Trees of special significance for historical, commemorative or rarity reasons that would warrant extraordinary efforts to secure their long-term retention.

**Medium ULE** Trees that appear to be retainable with an acceptable level of risk for 15 to 40 years.

1. Trees that may only live between 15 and 40 years.
2. Trees that may live for more than 40 years but would be removed to allow the safe development of more suitable individuals.
3. Trees that may live for more than 40 years but would be removed during the course of normal management for safety and nuisance reasons.
4. Storm damage or defective trees that can be made suitable for retention in the medium term by remedial work.

**Short ULE** Trees that appear to be retainable with an acceptable level of risk for 5 to 15 years.

1. Trees that may live for 5 to 15 years.
2. Trees that may live for more than 15 years but would be removed to allow the safe development of more suitable individuals.





3. Trees that may live for more than 15 years but would be removed during the course of normal management for safety and nuisance reasons.
4. Storm damaged or defective trees that require substantial remedial work to make safe and are only suitable for retention in the short term.

**0-5 Years** Trees with a high level of risk that would need removal within the next 5 years.

1. Dead trees.
2. Dying or suppressed and declining trees through disease or inhospitable conditions.
3. Dangerous trees through instability or recent loss of adjacent trees.
4. Dangerous trees through structural defects including cavities, decay, included bark, wounds or poor form.
5. Damaged trees that are considered unsafe to retain.
6. Trees that will become dangerous after removal of other trees for the above reasons.

## Condition

This is a combined indicator of 'health' and 'structure' based on the following descriptors:

## Health

**Good** Foliage of tree is entire, with good colour, very little sign of pathogens and of good density. Growth indicators are good ie. Extension growth of twigs and wound wood development. Minimal or no canopy die back (deadwood).

**Fair** Tree is showing one or more of the following symptoms; < 25% dead wood, minor canopy die back, foliage generally with good colour though some imperfections may be present. Minor pathogen damage present, with growth indicators such as leaf size, canopy density and twig extension growth typical for the species in this location.

**Poor** Tree is showing one or more of the following symptoms of tree decline; > 25% deadwood, canopy die back is observable, discoloured or distorted leaves. Pathogens present, stress symptoms are observable as reduced leaf size, extension growth and canopy density.

**Dead Structure** No vascular function.



- Good** Trunk and scaffold branches show good taper and attachment with minor or no structural defects. Tree is a good example of the species with a well-developed form showing no obvious root problems or pests and diseases.
- Fair** Tree shows some minor structural defects or minor damage to trunk eg. bark missing, there could be cavities present. Minimal damage to structural roots. Tree could be seen as typical for this species.
- Poor** There are major structural defects, damage to trunk or bark missing. Co-dominant stems could be present or poor structure with likely points of failure. Girdling or damaged roots obvious. Tree is structurally problematic.

## Retention Value

- **Exceptional** - trees must be retained at all costs
  - A tree has horticultural, social, historical or cultural value.
  - A tree that has outstanding habitat value.
  - A tree that is an outstanding size for the species.
  - A tree that is remnant.
  - A tree species that is endangered.
- **High** - trees should be considered for retention wherever possible
  - A tree that is in good-fair health and structure with a long ULE.
  - A tree that is in good health, with good structure, is semi mature or mature, and with a medium ULE.
  - A tree that has cultural, botanical, or landscape significance.
- **Medium** - trees should be considered for retention wherever possible but should not pose a material constraint to site development
  - A tree that is in fair health and structure, is semi mature, and with a medium ULE.  
A tree that is in poor health or poor structure, is mature, and with a medium or short ULE.
- **Low** - trees should be removed
  - A tree that is in poor health and structure with a short ULE.
  - Weed species.
- **Third Party** – trees are third party assets and must be retained at all costs.
  - A tree that is located on adjoining properties.





## Appendix D: Tree Protection Measures

- Signs identifying the TPZ should be placed around the edge of the TPZ and be visible from within the development site.
- Fencing should be erected before any machinery or materials are brought onto the site and before the commencement of works including demolition. Once erected, protective fencing must not be removed or altered without approval by the project arborist. The TPZ should be secured to restrict access.



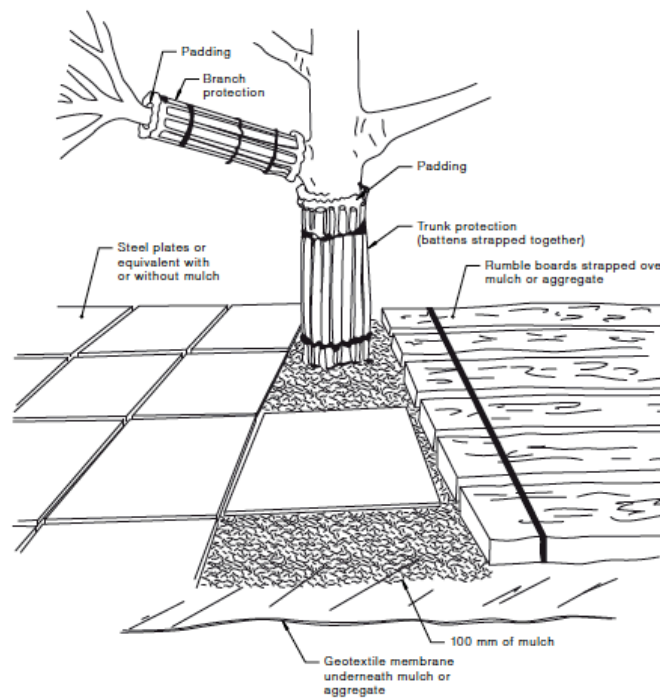
**LEGEND:**

- 1 Chain wire mesh panels with shade cloth (if required) attached, held in place with concrete feet.
- 2 Alternative plywood or wooden paling fence panels. This fencing material also prevents building materials or soil entering the TPZ.
- 3 Mulch installation across surface of TPZ (at the discretion of the project arborist). No excavation, construction activity, grade changes, surface treatment or storage of materials of any kind is permitted within the TPZ.
- 4 Bracing is permissible within the TPZ. Installation of supports should avoid damaging roots.

Example of fencing (AS4970: 2009)



- If the TPZ is to be encroached by construction, manual excavation of the roots is to be carried out under the supervision of the project arborist to identify roots critical to tree stability.
- No roots greater than 25mm are to be cut unless supervised by the project arborist.
- Roots should be pruned with sharp tools such as secateurs, handsaws or chainsaws.
- No roots within the TPZ are to be cut with machinery such as backhoes or excavators.
- Where roots are exposed, temporary root protection should be installed to prevent them drying out. Hessian sheeting as multiple layers on exposed roots would reduce the loss of moisture.
- All services should be routed outside the TPZ. If underground services are to be routed through the TPZ, they should be installed by directional drilling or manually excavated trenches. Directional boring should be at least 600mm deep.
- If temporary access for machinery is required within the TPZ ground protection measures will be required. The purpose of ground protection is to prevent root damage and soil compaction within the TPZ. Measures may include a permeable membrane such as geotextile fabric beneath a layer of mulch or crushed rock below rumble board.



## Ground Protection (AS4970: 2009)

- Activities generally excluded from the TPZ include but are not limited to:
  - Machine excavation including trenching
  - Excavation for silt fencing
  - Storage
  - Preparation of chemicals, including preparation of cement products



- Parking of vehicles and plant
- Refueling
- Dumping of waste
- Wash down and cleaning of equipment
- Placement of fill

## Appendix E: References

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- Standards Australia 2009 SAI Global - AS4970 *Protection of Trees on Development Sites*
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<http://www.bpg.unimelb.edu.au>

## Appendix F: Qualifications and Experience

Matthew P James has the following qualifications and experience:

Master of Urban Horticulture (studying)

Graduate Certificate in Arboriculture

Diploma of Arboriculture

QTRA (Quantified Risk Assessment) registered user

Arboriculture Australia National Conference: 2016

Tree Anatomy Workshop (Mark Hartley) 2016

Cert Nutrition Farming 2015

15+ Years industry experience





## Appendix G: Report Limitations and Constraints

- The report is limited to the time of inspection.
- The report reflects the trees as found on the days of inspection. Any changes to site conditions or surroundings, such as construction works or landscape works may alter the findings of the report subject to conditions and recommendations as set out within the report.
- The report is based on the inspection and the material available at the time of inspection or that information further to the inspection found within the report.
- No soil samples were taken for laboratory analysis.
- Tree roots were not inspected below ground except where previously exposed and/or where otherwise stated within the report.
- Measurements may be approximates only and generally not to scale.
- All images supplied are interpretations only and should not be taken as true at time of inspection or indicative of tree condition or status at time of inspection or time of report release, inclusive of Google images if applicable

## Appendix H: Disclaimer

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