

ARBORICULTURAL IMPACT ASSESSMENT & TREE PROTECTION PLAN

18 Reg Grundy Drive Bundanoon

Version 4

Prepared for: RG Capital

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Document status

Document status	Date	Revision description
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Abbreviations

Abbreviation	Description
AQF	Australian Qualifications Framework
AS	Australian Standards
DBH	Diameter at Breast Height
ld	Identification
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

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1 Background

1.1 Introduction

Tree Survey was commissioned by RG Capital to prepare an Arboricultural Impact Assessment (AIA) and Tree Protection Plan (TPP) for a proposed development at 18 Reg Grundy Drive, Bundanoon.

The purpose of this report is to:

- Identify the trees within and adjacent to the proposed disturbance footprint.
- Assess the current health and condition of the subject trees.
- Assess the potential impacts of the development on the subject trees.
- Evaluate the significance of the subject trees and assess their suitability for retention.

1.2 The proposal

The key features of the proposal are summarised as follows:

- Subdivision of Lot 18 (DP 1219744) into 23 lots.
- Construction of proposed road (up to 20m in width).
- Construction of sewer and stormwater drainage.

1.3 Documents and plans referenced

The conclusions and recommendations of this report are based on the Australian Standard, AS 4970-2009, Protection of Trees on Development Sites (AS4970), the findings from the site inspections, and analysis of the documents/plans listed in **Table 1**.

Table 1: Documents and plans

Document	Author	Version	Date
Civil Plan (Drainage)	CDS	E	22/02/02
Civil Plan (Sewer)	CDS	F	22/02/02
Detail Survey (DWG format)	-	-	-
Bushfire Assessment (Letter)	Harris Environmental	-	03/08/22

The civil plan has been used as a map layer in the **Arboricultural Impact Assessment** and **Tree Protection Plan**.

1.4 Council tree preservation

The Wingecarribee Development Control Plan (DCP) 2010 defines a protected tree as:

 Trees greater than 6m in height and with a trunk diameter at breast height (DBH) of 150mm or canopy spread of more than 4m.

Trees and vegetation that fall within these specifications are protected unless listed as an exempt species. Trees that do not meet the prescribed dimensions have generally not been included in this report.

1.5 The subject trees

A total of **378** trees were assessed and included in this report. The subject trees were assessed in accordance with a visual tree assessment (VTA) as formulated by Mattheck & Breloer (1994)¹, and practices consistent with modern arboriculture. 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 adjacent properties or restricted areas were not subject to a
 complete visual inspection (i.e., defects and abnormalities may be present but not
 recorded).
- Diameter at breast height (DBH) has been accurately measured using a diameter tape (where access to the trees was available). Tree height and canopy spread were estimated unless otherwise stated.
- Tree protection zones have been calculated in accordance with Australian Standard, AS 4970-2009, Protection of Trees on Development Sites using the DBH measurements.

A tree retention assessment has been undertaken in accordance with the Institute of Australian Consulting Aboriculturalists (IACA) Significance of a Tree, Assessment Rating System (STARS). For further information on STARS see **Appendices**. Further information, observations, and measurements specific to each of the subject trees can be found in **Chapter 3**.

1.6 Bushfire assessment

This report has been prepared in consultation with Kate Harris of Harris Environmental Consulting.

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¹ VTA is an internationally recognised practice in the visual assessment of trees as formulated by Mattheck & Breloer (1994). Principle explanations and illustrations are contained within the publication, Field Guide for Visual Tree Assessment by Mattheck, C., and Breloer, H. Arboricultural Journal, Vol 18 pp 1-23 (1994).

2 Arboricultural Impact Assessment (AIA)

2.1 Impact assessment

The Australian Standard, Protection of Trees on Development Sites (AS4970), describes two zones that need to be considered when undertaking an arboricultural impact assessment:

- Tree protection zone (TPZ): The TPZ is the combination of crown and root area that
 requires protection during the construction process so that the tree can remain viable. The
 TPZ is calculated by measuring the DBH and multiplying it by twelve (12). The resulting
 value is applied as a radial measurement from the centre of the trunk to delineate the TPZ.
- **Structural root zone (SRZ):** The SRZ is the area of the root system used for stability, mechanical support, and anchorage of the tree.

Encroachment within the TPZ is acceptable, providing that the arborist can demonstrate that the tree will remain viable. There are three (3) levels of encroachment defined by AS4970:

- Nil encroachment (0%): No encroachment within the TPZ.
- Minor encroachment (<10%): The encroachment is less than 10% of the TPZ.
- Major encroachment (>10%): The encroachment is greater than 10% of the TPZ.

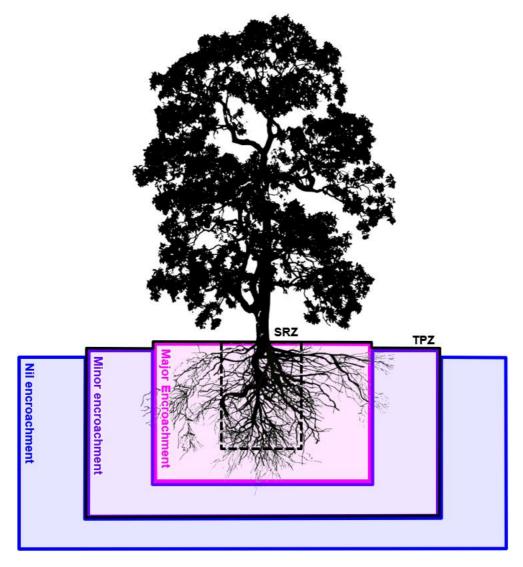


Figure 1: Three (3) levels of encroachment

2.2 Mitigating the impacts

Encroachment within the TPZ should be compensated with a range of mitigation measures to ensure that impacts to the subject tree(s) are reduced or restricted wherever possible. Mitigation should be increased relative to the level of encroachment within the TPZ to ensure the subject tree(s) remain viable. The table below outlines requirements under AS4970, and mitigation measures required within each category of encroachment. These mitigation measures will only apply if trees are proposed to be retained.

Table 2: Mitigation measures

Encroachment	Mitigation Measures
Nil encroachment (0%)	• N/A
Minor encroachment (<10%)	 The area lost to this encroachment should be compensated for elsewhere, contiguous with the TPZ. Detailed root investigations should not be required. Tree protection must be installed.
Major encroachment (>10%)	 The project arborist must demonstrate the tree(s) would remain viable. Root investigation by non-destructive methods may be required for any trees proposed for retention. Consideration of relevant factors, including root location and distribution, tree species, condition, site constraints, and design factors. The area lost to this encroachment should be compensated for elsewhere, contiguous with the TPZ. The project arborist will be required to supervise any work within the TPZ. Tree protection must be installed.

3 Results

Table 3 shows the results of the arboricultural assessment. Key points are:

3.1 Encroachment within the TPZ

A summary of trees impacted directly by the proposed construction footprint is outlined below:

- Nil encroachment (0%): A total of 128 trees are located outside the construction footprint.
- Minor encroachment (<10%): A total of 35 trees will be subject to minor encroachment.
- Major encroachment (>10%): A total of 215 trees will be subject to major encroachment.

3.2 Tree removal and retention

A summary of the total proposed tree removals is outlined below:

- Retain: A total of 185 trees are proposed for retention.
 - Other retained vegetation: Approximately 20,094m² of vegetation (not included within this report) will be retained. This vegetation is located in the north-eastern corner of the site and will not be impacted by the proposed works.
- Remove: A total of 193 trees are proposed for removal.
 - Bushfire: No additional trees are required to be removed to meet APZ requirements (other than those impacted by construction). Please refer to the Harris Environmental Addendum Letter, dated 3 August 2022.

Table 3: Results of the arboricultural assessment

ld.	Botanical name	Height (metres)	Spread (metres diameter)	Health	Structure	Age class	Tree significance	Useful life expectancy	Priority for retention	DBH 1 (millimetres diameter)	DBH 2 (millimetres diameter)	DBH 3 (millimetres diameter)	DBH Combined (millimetres diameter)	DRB (millimetres diameter)	TPZ (metres radius)	SRZ (metres radius)	Encroachment	% Encroachment within TPZ	Other notes	Proposal
1	Eucalyptus ovata	10	12	Fair	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Major	100%	-	Remove
2	Eucalyptus ovata	18	24	Fair	Fair	Mature	Medium	Medium	Medium	900	-	-	900	950	10.8	3.2	Major	18%	-	Retain
3	Eucalyptus ovata	16	14	Fair	Fair	Mature	Medium	Short	Low	500	-	-	500	550	6.0	2.6	Major	100%	-	Remove
4	Eucalyptus ovata	6	2	Poor	Poor	Mature	Low	Short	Low	400	-	-	400	450	4.8	2.4	Major	100%	75% of the tree is dead	Remove
5	Eucalyptus ovata	20	12	Poor	Fair	Mature	Medium	Short	Low	450	-	-	450	500	5.4	2.5	Major	100%	Severe canopy dieback	Remove
6	Eucalyptus ovata	20	14	Fair	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Major	100%	Deadwood (>10cm)	Remove
7	Eucalyptus ovata	14	12	Fair	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Major	45%	-	Remove
8	Eucalyptus sp.	7	1	Poor	Poor	Dead	Low	Dead	Low	250	-	-	250	300	3.0	2.0	Minor	9%	Dead tree	Retain
9	Eucalyptus sp.	12	2	Poor	Poor	Dead	Low	Dead	Low	250	-	-	250	300	3.0	2.0	Major	100%	Dead tree	Remove
10	Eucalyptus ovata	16	10	Poor	Poor	Mature	Medium	Short	Low	300	-	-	300	350	3.6	2.1	Major	100%	Canopy dieback	Remove
11	Eucalyptus ovata	8	9	Fair	Poor	Mature	Low	Short	Low	250	-	-	250	300	3.0	2.0	Major	100%	Canopy dieback	Remove
12	Eucalyptus ovata	16	10	Poor	Fair	Mature	Medium	Short	Low	450	-	-	450	500	5.4	2.5	Major	100%	Canopy dieback	Remove
13	Eucalyptus ovata	10	9	Fair	Poor	Mature	Low	Short	Low	250	-	-	250	300	3.0	2.0	Major	100%	Canopy dieback	Remove
14	Eucalyptus ovata	18	20	Fair	Fair	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Major	100%	Tree is growing on a lean. Branch failure from neighbouring tree.	Remove
15	Eucalyptus ovata	18	10	Fair	Fair	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Major	100%	Deadwood (>10cm)	Remove
16	Eucalyptus ovata	12	10	Poor	Poor	Mature	Low	Short	Low	450	-	-	450	500	5.4	2.5	Major	100%	Deadwood (>30cm). Crown of tree is snapped out	Remove
17	Eucalyptus ovata	16	14	Fair	Fair	Mature	Medium	Medium	Medium	600	-	-	600	650	7.2	2.8	Major	100%	Minor canopy dieback	Remove
18	Eucalyptus ovata	16	14	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Major	100%	Deadwood (>10cm)	Remove
19	Eucalyptus microcorys	16	12	Good	Good	Mature	Medium	Medium	Medium	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove
20	Eucalyptus microcorys	16	12	Fair	Good	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Major	100%	-	Remove
21	Eucalyptus microcorys	10	8	Poor	Fair	Semi-mature	Low	Short	Low	200	-	-	200	250	2.4	1.9	Major	100%	75% of the tree is dead	Remove
22	Eucalyptus ovata	16	9	Fair	Poor	Mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Major	100%	Deadwood (>20cm)	Remove
23	Eucalyptus ovata	12	10	Fair	Poor	Mature	Medium	Medium	Low	350	-	-	350	400	4.2	2.3	Major	100%	Multiple previous failures	Remove
24	Eucalyptus ovata	18	10	Poor	Fair	Mature	Medium	Short	Low	450	-	-	450	500	5.4	2.5	Major	19%	50% of the tree is dead	Retain
25	Eucalyptus ovata	18	12	Fair	Fair	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Major	14%	Deadwood (>10cm)	Retain
26	Eucalyptus ovata	16	8	Fair	Fair	Mature	Medium	Medium	Medium	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove
27	Eucalyptus ovata	14	6	Fair	Poor	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
28	Eucalyptus ovata	16	10	Fair	Poor	Mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Nil	0%	-	Retain
29	Eucalyptus radiata	16	7	Fair	Fair	Mature	Low	Medium	Low	250	-	-	250	300	3.0	2.0	Major	100%	-	Remove
30	Eucalyptus sp.	14	3	Poor	Poor	Mature	Low	Short	Low	250	-	-	250	300	3.0	2.0	Major	100%	75% of the tree is dead	Remove
31	Eucalyptus ovata	18	16	Fair	Fair	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Major	14%	Deadwood (>10cm)	Retain
32	Eucalyptus radiata	16	6	Fair	Fair	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
33	Eucalyptus ovata	16	5	Fair	Fair	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
34	Eucalyptus sp.	16	6	Poor	Fair	Dead	Low	Dead	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
35	Eucalyptus ovata	14	8	Fair	Fair	Mature	Low	Medium	Low	250	-	-	250	300	3.0	2.0	Nil	0%	-	Retain
36	Eucalyptus ovata	18	10	Fair	Fair	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Major	13%	Deadwood (>10cm)	Retain
		1	-1	1	1	ı	1			1			1	1		1	1	1	1	

ld.	Botanical name	Height (metres)	Spread (metres diameter)	Health	Structure	Age class	Tree significance	Useful life expectancy	Priority for retention	DBH 1 (millimetres diameter)	DBH 2 (millimetres diameter)	DBH 3 (millimetres diameter)	DBH Combined (millimetres diameter)	DRB (millimetres diameter)	TPZ (metres radius)	SRZ (metres radius)	Encroachment	% Encroachment within TPZ	Other notes	Proposal
37	Eucalyptus sp.	12	4	Poor	Fair	Dead	Low	Dead	Low	350	-	-	350	400	4.2	2.3	Nil	0%	Trunk decay	Retain
38	Eucalyptus ovata	16	9	Fair	Fair	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Major	100%	-	Remove
39	Eucalyptus microcorys	12	7	Good	Good	Semi-mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove
40	Eucalyptus ovata	14	10	Poor	Fair	Dead	Medium	Dead	Low	300	-	-	300	350	3.6	2.1	Nil	0%	-	Retain
41	Eucalyptus radiata	18	16	Good	Good	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Minor	4%	_	Retain
42	Eucalyptus sp.	12	16	Poor	Poor	Dead	Low	Dead	Low	500	-	-	500	550	6.0	2.6	Major	11%	Dead tree	Retain
43	Eucalyptus microcorys	12	7	Good	Good	Semi-mature	Low	Medium	Low	250	-	-	250	300	3.0	2.0	Nil	0%	-	Retain
44	Eucalyptus ovata	16	16	Good	Fair	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Major	15%	Bracket fungi	Retain
45	Eucalyptus radiata	18	18	Poor	Fair	Mature	Medium	Short	Low	800	-	-	800	850	9.6	3.1	Major	100%	Canopy dieback	Remove
46	Eucalyptus microcorys	9	5	Fair	Good	Semi-mature	Low	Medium	Low	150	-	-	150	150	2.0	1.5	Major	100%	-	Remove
47	Eucalyptus microcorys	10	9	Good	Good	Semi-mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove
48	Eucalyptus ovata	12	10	Good	Poor	Semi-mature	Low	Short	Low	250	-	-	250	300	3.0	2.0	Major	100%	Tree is growing on a lean	Remove
49	Eucalyptus ovata	14	10	Fair	Poor	Mature	Low	Short	Low	300	350	-	500	550	6.0	2.6	Major	100%	Defective root plate. Previous failure	Remove
50	Eucalyptus ovata	14	10	Fair	Poor	Mature	Low	Short	Low	300	350	-	500	550	6.0	2.6	Major	100%	-	Remove
51	Eucalyptus ovata	8	10	Fair	Poor	Semi-mature	Low	Short	Low	300	-	-	300	350	3.6	2.1	Major	22%	Suppressed canopy	Remove
52	Eucalyptus ovata	16	16	Good	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Major	31%	-	Remove
53	Eucalyptus ovata	16	10	Fair	Fair	Mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Nil	0%	-	Retain
54	Acacia binervia	9	6	Fair	Poor	Mature	Low	Short	Low	200	-	-	200	250	2.4	1.9	Nil	0%	Suppressed canopy	Retain
55	Eucalyptus ovata	14	12	Fair	Fair	Mature	Low	Medium	Low	400	-	-	400	450	4.8	2.4	Major	19%	-	Retain
56	Eucalyptus ovata	16	9	Fair	Fair	Mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Nil	0%	-	Retain
57	Eucalyptus radiata	16	12	Fair	Good	Mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove
58	Eucalyptus radiata	24	22	Fair	Fair	Mature	High	Medium	High	1300	-	-	1300	1400	15.0	3.8	Major	100%	Deadwood (>20cm)	Remove
59	Eucalyptus radiata	16	9	Good	Good	Mature	Low	Medium	Low	400	-	-	400	450	4.8	2.4	Major	100%	-	Remove
60	Eucalyptus ovata	14	12	Fair	Good	Mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Major	100%	-	Remove
61	Eucalyptus ovata	16	12	Fair	Fair	Mature	Medium	Medium	Medium	600	-	-	600	650	7.2	2.8	Minor	8%	Deadwood (>20cm)	Retain
62	Eucalyptus ovata	16	10	Fair	Fair	Mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Minor	1%	Minor canopy dieback	Retain
63	Eucalyptus ovata	16	10	Fair	Fair	Mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Major	100%	Minor canopy dieback	Remove
64	Eucalyptus radiata	16	12	Good	Good	Mature	Low	Medium	Low	400	-	-	400	450	4.8	2.4	Major	100%	-	Remove
65	Eucalyptus radiata	16	12	Good	Good	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Major	100%	-	Remove
66	Eucalyptus ovata	16	8	Poor	Fair	Mature	Medium	Short	Low	250	-	-	250	300	3.0	2.0	Major	100%	Severe canopy dieback	Remove
67	Eucalyptus ovata	14	6	Fair	Fair	Semi-mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Major	25%		Remove
68	Eucalyptus radiata	18	14	Good	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Nil	0%	-	Retain
69	Eucalyptus ovata	16	14	Fair	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Nil	0%	Tree is growing on a lean	Retain
70	Eucalyptus radiata	16	9	Good	Fair	Semi-mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Nil	0%	-	Retain
71	Eucalyptus ovata	16	14	Fair	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Nil	0%	Deadwood (>20cm)	Retain
72	Eucalyptus ovata	16	14	Fair	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Nil	0%	Deadwood (>20cm)	Retain
73	Eucalyptus radiata	18	8	Good	Good	Semi-mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove

New Propose	Proposal
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Part Euclophus rediate	Remove
Proceedings	Remove
Bo	Remove
B1 Euralyptus radiatar	Remove
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Secondary transformation 18	Remove
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91 Eucalyptus tereticomis 36 28 Fair Fair Mature High Medium High Medium High Medium High Medium High Medium High Medium High Medium High Medium High Medium High Medium High Medium High Medium High Medium High Medium High Medium High Medium High Medium High Medium High Medium High Medium High Medium High High Medium High High Medium High	Remove
92 Eucalyptus ovata 8 3 Poor Poor Dead Low Dead Low 450 - 450 500 5.4 2.5 Major 100% Crown snapped out 93 Removed -	Remove
93 Removed -<	Remove
94 Removed -<	Remove
95 Removed -<	-
96 Removed -<	-
97 Removed -<	-
98 Eucalyptus tereticomis 36 28 Fair Fair Mature High Medium High 1600 - - 1600 1700 15.0 4.1 Major 34% Deadwood (>30cm) 99 Eucalyptus microcorys 20 18 Fair Fair Mature Medium Medium 450 - - 450 500 5.4 2.5 Nil 0% - 100 Eucalyptus microcorys 16 18 Fair Fair Mature Medium High Medium High 900 - - 450 500 5.4 2.5 Nil 0% Canopy dieback 101 Angophora floribunda 24 20 Good Fair Mature High Medium High 900 - - 900 950 10.8 3.2 Minor 1% - 102 Eucalyptus microcorys 34 22Fair Fair Mature	-
99 Eucalyptus microcorys 20 18 Fair Fair Mature Medium Medium 450 - - 450 500 5.4 2.5 Nil 0% - 100 Eucalyptus microcorys 16 18 Fair Fair Mature Medium Medium 450 - - 450 500 5.4 2.5 Nil 0% Canopy dieback 101 Angophora floribunda 24 20 Good Fair Mature High Medium High 900 - - 900 950 10.8 3.2 Minor 1% - 102 Eucalyptus microcorys 34 22 Fair Fair Mature High Medium High 1200 - - 1200 1300 14.4 3.7 Minor 9% -	-
100 Eucalyptus microcorys 16 18 Fair Fair Medium Medium Medium 450 - - 450 500 5.4 2.5 Nil 0% Canopy dieback 101 Angophora floribunda 24 20 Good Fair Mature High Medium High 900 - - 900 950 10.8 3.2 Minor 1% - 102 Eucalyptus microcorys 34 22 Fair Fair Mature High Medium High 1200 - - 1200 1300 14.4 3.7 Minor 9% -	Remove
100 Eucalyptus microcorys 16 18 Fair Fair Medium Medium Medium 450 - - 450 500 5.4 2.5 Nil 0% Canopy dieback 101 Angophora floribunda 24 20 Good Fair Mature High Medium High 900 - - 900 950 10.8 3.2 Minor 1% - 102 Eucalyptus microcorys 34 22 Fair Fair Mature High Medium High 1200 - - 1200 1300 14.4 3.7 Minor 9% -	Retain
101 Angophora floribunda 24 20 Good Fair Mature High Medium High 900 - - 900 950 10.8 3.2 Minor 1% - 102 Eucalyptus microcorys 34 22 Fair Fair Mature High Medium High 1200 - - 1200 1300 14.4 3.7 Minor 9% -	Retain
102 Eucalyptus microcorys 34 22 Fair Fair Mature High Medium High 1200 1200 1300 14.4 3.7 Minor 9% -	Retain
100 Superference	Retain
103 Eucalyptus microcorys 34 24 Fair Fair Mature High Medium High 1100 1100 1200 12.6 3.6 Minor 7% Trunk decay	Retain
104 Eucalyptus microcorys 34 40 Good Fair Mature High Medium High 1200 1200 1500 14.4 3.9 Minor 9% Bottle butt	Retain
105 Eucalyptus tereticomis 32 26 Fair Fair Mature High Medium High 1200 1200 1300 14.4 3.7 Minor 8% Deadwood (>30cm)	Retain
106 Eucalyptus ovata 20 16 Good Fair Mature Medium Medium 400 400 450 4.8 2.4 Minor 6% -	Retain
107 Eucalyptus radiata 18 12 Fair Fair Mature Medium Medium 400 400 450 4.8 2.4 Major 17% -	Retain
108 Eucalyptus tereticomis 30 28 Good Good Mature High Medium High 950 950 1100 12.0 3.4 Major 100% Deadwood (>20cm)	Remove
109 Eucalyptus ovata 16 12 Fair Fair Mature Medium Medium 300 300 350 3.6 2.1 Major 100% -	Remove
110 Eucalyptus sp. 18 14 Poor Fair Dead Low Dead Low 500 500 550 6.0 2.6 Major 26% Dead tree	Remove

ld.	Botanical name	Height (metres)	Spread (metres diameter)	Health	Structure	Age class	Tree significance	Useful life expectancy	Priority for retention	DBH 1 (millimetres diameter)	DBH 2 (millimetres diameter)	DBH 3 (millimetres diameter)	DBH Combined (millimetres diameter)	DRB (millimetres diameter)	TPZ (metres radius)	SRZ (metres radius)	Encroachment	% Encroachment within TPZ	Other notes	Proposal
111	Eucalyptus tereticornis	34	34	Good	Good	Mature	High	Medium	High	950	-		950	1100	12.0	3.4	Minor	9%	Deadwood (>20cm)	Retain
112	Eucalyptus radiata	16	14	Poor	Fair	Mature	Low	Short	Low	450	-	ı	450	500	5.4	2.5	Minor	6%	Suppressed canopy	Retain
113	Eucalyptus radiata	22	20	Fair	Fair	Mature	High	Medium	High	900	-	-	900	950	10.8	3.2	Major	42%	Deadwood (>10cm)	Remove
114	Eucalyptus tereticornis	22	20	Poor	Poor	Mature	Medium	Short	Low	1200	-	-	1200	1300	14.4	3.7	Major	100%	Deadwood (>30cm)	Remove
115	Eucalyptus tereticornis	22	18	Fair	Fair	Mature	High	Medium	High	900	-	-	900	950	10.8	3.2	Major	17%	Multiple previous failures	Retain
116	Eucalyptus ovata	16	8	Fair	Fair	Mature	Low	Medium	Low	350	-	•	350	400	4.2	2.3	Major	100%	-	Remove
117	Eucalyptus ovata	16	8	Fair	Fair	Mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Major	26%	-	Remove
118	Eucalyptus radiata	16	16	Poor	Fair	Mature	Medium	Short	Low	600	-	-	600	650	7.2	2.8	Major	100%	_	Remove
119	Eucalyptus radiata	16	8	Good	Fair	Mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Major	100%	-	Remove
120	Eucalyptus radiata	10	7	Fair	Poor	Semi-mature	Low	Short	Low	250	-	-	250	300	3.0	2.0	Major	100%	Suppressed canopy	Remove
121	Eucalyptus radiata	10	7	Fair	Poor	Semi-mature	Low	Short	Low	250	-	-	250	300	3.0	2.0	Major	100%	Suppressed canopy	Remove
122	Eucalyptus radiata	18	14	Good	Fair	Mature	Medium	Medium	Medium	850	-	-	850	900	10.2	3.2	Major	100%	-	Remove
123	Eucalyptus radiata	14	10	Fair	Fair	Mature	Low	Medium	Low	350	-	ı	350	400	4.2	2.3	Major	100%	Suppressed canopy	Remove
124	Eucalyptus radiata	12	4	Fair	Good	Semi-mature	Low	Medium	Low	200	-	ı	200	250	2.4	1.9	Major	100%	-	Remove
125	Eucalyptus radiata	18	14	Fair	Fair	Mature	Medium	Short	Medium	500	-	-	500	550	6.0	2.6	Major	34%	Deadwood (>10cm)	Remove
126	Eucalyptus radiata	18	14	Fair	Fair	Mature	Medium	Short	Medium	500	-	ı	500	550	6.0	2.6	Major	27%	Deadwood (>10cm)	Remove
127	Eucalyptus radiata	16	10	Fair	Fair	Mature	Low	Medium	Medium	350	250	-	400	450	4.8	2.4	Nil	0%	-	Retain
128	Eucalyptus radiata	20	14	Poor	Fair	Mature	Medium	Short	Low	600	-	-	600	650	7.2	2.8	Major	18%	Deadwood (>20cm). Previous branch failures	Retain
129	Eucalyptus radiata	16	12	Poor	Poor	Mature	Medium	Short	Low	500	400	-	600	650	7.2	2.8	Major	100%	Termite damage	Remove
130	Eucalyptus radiata	16	12	Poor	Poor	Mature	Medium	Short	Low	500	400	-	600	650	7.2	2.8	Major	100%	Termite damage	Remove
131	Eucalyptus sp.	12	12	Poor	Fair	Dead	Low	Dead	Low	300	-	-	300	350	3.6	2.1	Major	18%	Dead tree	Retain
132	Eucalyptus radiata	22	34	Good	Good	Mature	High	Medium	High	600	500	-	800	850	9.6	3.1	Major	100%	Bifurcated	Remove
133	Eucalyptus radiata	20	12	Fair	Fair	Mature	Medium	Medium	Medium	300	-	-	300	350	3.6	2.1	Minor	2%	Bifurcated	Retain
134	Eucalyptus radiata	20	12	Fair	Fair	Mature	Medium	Medium	Medium	300	-	-	300	350	3.6	2.1	Nil	0%	-	Retain
135	Acacia sp.	18	10	Fair	Fair	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Major	100%	Deadwood (>10cm)	Remove
136	Acacia sp.	18	10	Fair	Fair	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Major	22%	Bifurcated	Remove
137	Eucalyptus radiata	18	8	Fair	Fair	Mature	Medium	Medium	Medium	300	300	-	400	450	4.8	2.4	Major	35%	-	Remove
138	Eucalyptus radiata	20	10	Good	Fair	Mature	Medium	Medium	Medium	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove
139	Eucalyptus radiata	20	10	Good	Fair	Mature	Medium	Medium	Medium	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove
140	Eucalyptus radiata	18	12	Fair	Fair	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Major	23%	-	Remove
141	Eucalyptus radiata	16	9	Fair	Fair	Mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Major	100%	Severe canopy dieback	Remove
142	Eucalyptus radiata	16	10	Fair	Fair	Mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Minor	8%	-	Retain
143	Eucalyptus radiata	16	12	Fair	Fair	Mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Major	100%	Bifurcated	Remove
144	Eucalyptus radiata	24	18	Good	Good	Mature	High	Medium	High	700	-	-	700	750	8.4	2.9	Major	100%	-	Remove
145	Eucalyptus radiata	16	4	Poor	Poor	Semi-mature	Low	Short	Low	300	-	-	300	350	3.6	2.1	Minor	7%	Suppressed canopy	Retain
146	Eucalyptus tereticornis	34	26	Good	Fair	Mature	High	Medium	High	1600	-	-	1600	1700	15.0	4.1	Major	14%	Deadwood (>20cm)	Retain
147	Eucalyptus radiata	18	6	Fair	Fair	Mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Minor	7%	-	Retain

ld.	Botanical name	Height (metres)	Spread (metres diameter)	Health	Structure	Age class	Tree significance	Useful life expectancy	Priority for retention	DBH 1 (millimetres diameter)	DBH 2 (millimetres diameter)	DBH 3 (millimetres diameter)	DBH Combined (millimetres diameter)	DRB (millimetres diameter)	TPZ (metres radius)	SRZ (metres radius)	Encroachment	% Encroachment within TPZ	Other notes	Proposal
148	Eucalyptus ovata	18	8	Good	Fair	Mature	Medium	Medium	Medium	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove
149	Eucalyptus tereticornis	28	36	Fair	Poor	Over-mature	High	Medium	High	1300	-	-	1300	1400	15.0	3.8	Major	100%	Multiple previous failures	Remove
150	Eucalyptus radiata	22	12	Good	Good	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Major	100%	-	Remove
151	Eucalyptus radiata	18	8	Good	Fair	Mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Minor	8%	-	Retain
152	Eucalyptus radiata	18	8	Good	Fair	Mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Major	100%	_	Remove
153	Eucalyptus tereticornis	24	26	Good	Fair	Mature	High	Medium	High	950	-	-	950	1100	12.0	3.4	Major	100%	-	Remove
154	Eucalyptus radiata	14	8	Poor	Poor	Mature	Low	Short	Low	300	-	-	300	350	3.6	2.1	Major	100%	Severe canopy dieback	Remove
155	Eucalyptus ovata	14	6	Good	Good	Semi-mature	Low	Medium	Low	250	-	-	250	300	3.0	2.0	Minor	3%	_	Retain
156	Eucalyptus ovata	14	6	Fair	Poor	Semi-mature	Low	Short	Low	300	-	-	300	350	3.6	2.1	Nil	0%	Suppressed canopy	Retain
157	Eucalyptus radiata	16	18	Good	Poor	Mature	Medium	Short	Low	700	-	-	700	750	8.4	2.9	Minor	6%	Suppressed canopy	Retain
158	Eucalyptus tereticornis	22	18	Fair	Poor	Mature	Medium	Medium	Medium	700	-	-	700	750	8.4	2.9	Major	100%	Deadwood (>20cm)	Remove
159	Eucalyptus radiata	18	14	Good	Fair	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Major	38%	Previous failure	Remove
160	Eucalyptus radiata	18	14	Good	Fair	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Major	100%	Previous failure	Remove
161	Eucalyptus ovata	16	16	Good	Good	Mature	Low	Medium	Low	600	-	-	600	650	7.2	2.8	Major	100%	-	Remove
162	Eucalyptus ovata	12	5	Good	Good	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
163	Eucalyptus ovata	12	5	Good	Good	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
164	Eucalyptus ovata	12	5	Good	Good	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
165	Eucalyptus ovata	12	5	Good	Good	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
166	Eucalyptus ovata	16	8	Fair	Fair	Mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Major	100%	-	Remove
167	Eucalyptus radiata	18	10	Good	Fair	Mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Nil	0%	-	Retain
168	Eucalyptus radiata	16	9	Poor	Fair	Dead	Low	Dead	Low	300	-	-	300	350	3.6	2.1	Nil	0%	Dead tree	Retain
169	Eucalyptus radiata	18	10	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Major	31%	-	Remove
170	Eucalyptus radiata	18	10	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Major	36%	-	Remove
171	Acacia binervia	14	7	Good	Fair	Mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
172	Acacia binervia	14	7	Good	Fair	Mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
173	Eucalyptus radiata	18	22	Poor	Fair	Over-mature	Medium	Short	Low	550	550	550	1000	1100	12.0	3.4	Major	39%	75% of the tree is dead	Remove
174	Eucalyptus ovata	12	5	Good	Good	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Major	100%	-	Remove
175	Eucalyptus ovata	12	5	Good	Good	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Major	100%	-	Remove
176	Eucalyptus ovata	12	5	Good	Good	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Major	100%	-	Remove
177	Eucalyptus ovata	12	5	Good	Good	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Major	100%	-	Remove
178	Eucalyptus tereticornis	28	24	Fair	Fair	Mature	High	Medium	High	1000	-	-	1000	1100	12.0	3.4	Major	37%	Deadwood (>20cm)	Remove
179	Eucalyptus tereticornis	20	28	Fair	Fair	Mature	High	Medium	High	1100	-	-	1100	1200	12.6	3.6	Major	29%	Deadwood (>20cm). Previous branch failures	Remove
180	Eucalyptus ovata	12	9	Good	Good	Semi-mature	Low	Medium	Low	250	-	-	250	300	3.0	2.0	Nil	0%	-	Retain
181	Eucalyptus tereticornis	12	6	Fair	Poor	Mature	Low	Short	Low	500	-	-	500	550	6.0	2.6	Major	100%	Crown of tree snapped out	Remove
182	Eucalyptus tereticornis	36	26	Fair	Fair	Mature	High	Medium	High	1000	-	-	1000	1400	12.0	3.8	Major	100%	Deadwood (>20cm)	Remove
183	Eucalyptus ovata	16	12	Good	Good	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Nil	0%	-	Retain
184	Eucalyptus ovata	16	14	Fair	Good	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Nil	0%	-	Retain

ld.	Botanical name	Height (metres)	Spread (metres diameter)	Health	Structure	Age class	Tree significance	Useful life expectancy	Priority for retention	DBH 1 (millimetres diameter)	DBH 2 (millimetres diameter)	DBH 3 (millimetres diameter)	DBH Combined (millimetres diameter)	DRB (millimetres diameter)	TPZ (metres radius)	SRZ (metres radius)	Encroachment	% Encroachment within TPZ	Other notes	Proposal
185	Removed	0	0							0	-	1	0	0	0.0	0.0	Nil	0%	-	Retain
186	Eucalyptus microcorys	26	28	Fair	Fair	Mature	High	Medium	High	700	-	1	700	750	8.4	2.9	Nil	0%	Deadwood (>20cm)	Retain
187	Eucalyptus tereticornis	26	18	Fair	Fair	Mature	High	Medium	High	650	-	-	650	700	7.8	2.9	Minor	3%	Deadwood (>20cm)	Retain
188	Eucalyptus tereticornis	26	22	Fair	Fair	Mature	Medium	Medium	Medium	600	-	-	600	650	7.2	2.8	Major	100%	Deadwood (>20cm)	Remove
189	Eucalyptus ovata	14	10	Good	Fair	Mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Nil	0%	_	Retain
190	Eucalyptus ovata	16	12	Good	Good	Mature	Low	Medium	Low	300	-	•	300	350	3.6	2.1	Major	100%	-	Remove
191	Eucalyptus radiata	16	16	Poor	Fair	Mature	Medium	Short	Low	700	-	-	700	750	8.4	2.9	Major	19%	Canopy dieback	Retain
192	Eucalyptus ovata	16	12	Fair	Good	Mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Major	100%	_	Remove
193	Eucalyptus sp.	12	5	Fair	Fair	Semi-mature	Low	Medium	Low	250	-	-	250	300	3.0	2.0	Minor	7%	-	Retain
194	Eucalyptus ovata	16	12	Fair	Good	Mature	Medium	Medium	Medium	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove
195	Unknown species	6	10	Poor	Poor	Mature	Low	Short	Low	100	-	-	100	100	2.0	1.5	Nil	0%	-	Retain
196	Unknown species	6	10	Poor	Poor	Mature	Low	Short	Low	100	-	-	100	100	2.0	1.5	Nil	0%	-	Retain
197	Eucalyptus ovata	16	10	Fair	Fair	Mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Minor	1%	-	Retain
198	Eucalyptus radiata	18	16	Fair	Fair	Mature	Medium	Medium	Medium	450	-	ı	450	500	5.4	2.5	Nil	0%	-	Retain
199	Eucalyptus radiata	16	10	Good	Good	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Nil	0%	-	Retain
200	Eucalyptus radiata	14	10	Poor	Fair	Mature	Low	Short	Low	300	-	-	300	350	3.6	2.1	Nil	0%	Minor canopy dieback	Retain
201	Eucalyptus ovata	16	12	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Nil	0%	-	Retain
202	Eucalyptus radiata	18	14	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Nil	0%	Tree is growing on a lean	Retain
203	Eucalyptus radiata	18	10	Good	Good	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Nil	0%	-	Retain
204	Eucalyptus ovata	14	10	Fair	Fair	Mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Nil	0%	Tree is growing on a lean	Retain
205	Eucalyptus radiata	18	14	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Nil	0%	-	Retain
206	Eucalyptus radiata	18	20	Fair	Fair	Mature	Medium	Medium	Medium	600	-	-	600	650	7.2	2.8	Nil	0%	Deadwood (>20cm)	Retain
207	Eucalyptus radiata	16	10	Fair	Fair	Mature	Medium	Medium		400	-	-	400	450	4.8	2.4	Nil	0%	Deadwood (>10cm)	Retain
208	Eucalyptus ovata	16	18	Fair	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Nil	0%	Deadwood (>10cm)	Retain
209	Eucalyptus ovata	14	3	Poor	Poor	Mature	Medium	Short	Low	350	-	-	350	400	4.2	2.3	Nil	0%	-	Retain
210	Eucalyptus tereticornis	26	28	Good	Fair	Mature	High	Medium	High	1000	-	-	1000	1100	12.0	3.4	Nil	0%	Deadwood (>20cm)	Retain
211	Eucalyptus radiata	14	8	Fair	Poor	Mature	Medium	Short	Low	500	-	-	500	550	6.0	2.6	Nil	0%	Previous failure	Retain
212	Eucalyptus ovata	12	12	Fair	Fair	Semi-mature	Low	Short	Low	200	-	-	200	250	2.4	1.9	Nil	0%	Suppressed canopy	Retain
213	Eucalyptus ovata	12	12	Fair	Fair	Semi-mature	Low	Short	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
214	Eucalyptus ovata	14	12	Fair	Poor	Mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Nil	0%	Minor canopy dieback	Retain
215	Eucalyptus ovata	18	6	Fair	Fair	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Nil	0%	-	Retain
216	Eucalyptus ovata	18	12	Fair	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Nil	0%	-	Retain
217	Eucalyptus ovata	16	10	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Nil	0%	-	Retain
218	Eucalyptus microcorys	16	12	Good	Good	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Nil	0%	-	Retain
219	Eucalyptus ovata	16	10	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Nil	0%	-	Retain
220	Eucalyptus sp.	14	9	Fair	Fair	Semi-mature	Low	Medium	Low	250	-	-	250	300	3.0	2.0	Major	100%	-	Remove
221	Eucalyptus sp.	16	9	Good	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Major	100%	-	Remove

īd.	Botanical name	Height (metres)	Spread (metres diameter)	Health	Structure	Age class	Tree significance	Useful life expectancy	Priority for retention	DBH 1 (millimetres diameter)	DBH 2 (millimetres diameter)	DBH 3 (millimetres diameter)	DBH Combined (millimetres diameter)	DRB (millimetres diameter)	TPZ (metres radius)	SRZ (metres radius)	Encroachment	% Encroachment within TPZ	Other notes	Proposal
222	Eucalyptus radiata	18	20	Poor	Fair	Mature	Medium	Short	Low	450	450	-	600	650	7.2	2.8	Major	100%	Deadwood (>20cm)	Remove
223	Eucalyptus ovata	18	14	Good	Good	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Major	100%	-	Remove
224	Eucalyptus ovata	18	9	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Major	100%	-	Remove
225	Eucalyptus ovata	18	9	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Major	100%	-	Remove
226	Eucalyptus ovata	18	9	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Major	100%	-	Remove
227	Eucalyptus tereticornis	18	18	Good	Good	Mature	High	Medium	High	800	-	-	800	850	9.6	3.1	Major	100%	-	Remove
228	Eucalyptus ovata	20	12	Good	Good	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Major	100%	-	Remove
229	Eucalyptus ovata	20	12	Good	Good	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Major	18%	-	Retain
230	Eucalyptus radiata	16	12	Fair	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Minor	7%	Deadwood (>10cm)	Retain
231	Eucalyptus radiata	14	10	Good	Good	Mature	Medium	Medium	Medium	300	-	-	300	350	3.6	2.1	Minor	2%	-	Retain
232	Eucalyptus radiata	20	18	Fair	Fair	Mature	Medium	Medium	Medium	950	-	-	950	1100	12.0	3.4	Major	18%	Deadwood (>10cm)	Retain
233	Eucalyptus radiata	12	6	Poor	Fair	Mature	Low	Short	Low	250	-	-	250	300	3.0	2.0	Major	11%	75% of the tree is dead	Retain
234	Eucalyptus radiata	14	8	Good	Good	Mature	Medium	Medium	Medium	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove
235	Eucalyptus radiata	14	14	Fair	Poor	Mature	Medium	Short	Low	300	-	-	300	350	3.6	2.1	Nil	0%	Suppressed canopy	Retain
236	Eucalyptus radiata	16	12	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Nil	0%	-	Retain
237	Eucalyptus radiata	16	16	Fair	Fair	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Nil	0%	Deadwood (>10cm)	Retain
238	Eucalyptus radiata	18	16	Fair	Fair	Mature	Medium	Medium	Medium	300	350	-	500	550	6.0	2.6	Nil	0%	-	Retain
239	Eucalyptus radiata	18	16	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Nil	0%	-	Retain
240	Eucalyptus radiata	16	12	Good	Good	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Major	35%	-	Remove
241	Eucalyptus ovata	14	14	Fair	Fair	Semi-mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Major	100%	-	Remove
242	Eucalyptus ovata	10	6	Fair	Fair	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
243	Eucalyptus ovata	10	6	Fair	Fair	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
244	Eucalyptus ovata	10	6	Fair	Fair	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
245	Eucalyptus ovata	10	6	Fair	Fair	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
246	Eucalyptus ovata	10	16	Fair	Fair	Semi-mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Minor	7%	-	Retain
247	Eucalyptus ovata	12	8	Fair	Fair	Semi-mature	Low	Medium	Low	250	-	-	250	300	3.0	2.0	Major	25%	-	Remove
248	Eucalyptus ovata	12	8	Fair	Fair	Semi-mature	Low	Medium	Low	250	-	-	250	300	3.0	2.0	Minor	4%	-	Retain
249	Eucalyptus sp.	14	12		Poor	Semi-mature	Low	Short	Low	300	-	-	300	350	3.6	2.1	Minor	8%	50% of the tree is dead	Retain
250	Unknown species	8	9	Fair	Poor	Mature	Medium	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
251	Eucalyptus radiata	18	12	Fair	Fair	Mature	Medium	Medium	Medium	600	-	-	600	650	7.2	2.8	Nil	0%	Deadwood (>10cm)	Retain
252	Eucalyptus radiata	18	7	Fair	Fair	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Nil	0%	-	Retain
253	Eucalyptus radiata	18	8	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Nil	0%	Deadwood (>10cm)	Retain
254	Eucalyptus radiata	16	12	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Nil	0%	-	Retain
255	Eucalyptus radiata	16	12	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Nil	0%	-	Retain
256	Eucalyptus radiata	18	12	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Nil	0%	-	Retain
	Eucalyptus radiata	16	7	Fair	Fair	Mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Major	12%	-	Retain
	Eucalyptus radiata	16	14	Fair	Fair	Mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Major	100%	Deadwood (>10cm)	Remove

ld.	Botanical name	Height (metres)	Spread (metres diameter)	Health	Structure	Age class	Tree significance	Useful life expectancy	Priority for retention	DBH 1 (millimetres diameter)	DBH 2 (millimetres diameter)	DBH 3 (millimetres diameter)	DBH Combined (millimetres diameter)	DRB (millimetres diameter)	TPZ (metres radius)	SRZ (metres radius)	Encroachment	% Encroachment within TPZ	Other notes	Proposal
259	Eucalyptus radiata	18	9	Fair	Fair	Mature	Medium	Medium	Medium	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove
260	Eucalyptus radiata	16	16	Fair	Poor	Mature	Medium	Short	Low	200	200	100	300	350	3.6	2.1	Major	100%	Tree is growing on a severe lean	Remove
261	Eucalyptus radiata	18	14	Good	Fair	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Major	100%	Tree is growing on a lean	Remove
262	Eucalyptus radiata	18	12	Fair	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Major	30%	Deadwood (>20cm)	Remove
263	Eucalyptus radiata	20	12	Fair	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Major	100%	-	Remove
264	Eucalyptus radiata	18	10	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Major	100%	-	Remove
265	Eucalyptus radiata	16	16	Fair	Fair	Mature	Medium	Medium	Medium	400	400	-	600	650	7.2	2.8	Major	100%	Deadwood (>10cm)	Remove
266	Eucalyptus radiata	16	7	Good	Fair	Semi-mature	Low	Medium	Low	250	-	-	250	300	3.0	2.0	Nil	0%	-	Retain
267	Eucalyptus tereticornis	18	16	Good	Fair	Mature	Medium	Medium	Medium	500	350	-	600	650	7.2	2.8	Major	18%	Deadwood (>10cm)	Retain
268	Eucalyptus ovata	14	7	Fair	Good	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Major	100%	-	Remove
269	Eucalyptus tereticornis	14	10	Fair	Good	Semi-mature	Low	Medium	Low	250	-	-	250	300	3.0	2.0	Minor	6%	-	Retain
270	Eucalyptus radiata	18	9	Fair	Fair	Mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove
271	Eucalyptus radiata	18	12	Fair	Fair	Mature	Low	Medium	Low	500	-	-	500	550	6.0	2.6	Major	100%	Included bark junction	Remove
272	Eucalyptus tereticornis	20	14	Good	Good	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Major	100%	Deadwood (>10cm)	Remove
273	Eucalyptus radiata	20	20	Fair	Fair	Mature	Medium	Medium	Medium	350	400	-	500	550	6.0	2.6	Major	100%	Deadwood (>10cm)	Remove
274	Eucalyptus radiata	20	20	Fair	Fair	Mature	Medium	Medium	Medium	350	400	-	500	550	6.0	2.6	Major	100%	Deadwood (>10cm)	Remove
275	Eucalyptus ovata	14	6	Fair	Fair	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Major	100%	-	Remove
276	Eucalyptus ovata	16	8	Good	Fair	Mature	Medium	Medium	Medium	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove
277	Eucalyptus tereticornis	20	12	Good	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Major	14%	-	Retain
278	Eucalyptus tereticornis	22	20	Good	Good	Mature	High	Medium	High	600	-	-	600	650	7.2	2.8	Major	38%	Deadwood (>10cm)	Remove
279	Eucalyptus tereticornis	16	10	Fair	Fair	Mature	Low	Short	Low	300	-	-	300	350	3.6	2.1	Major	100%	Suppressed canopy	Remove
280	Eucalyptus radiata	20	10	Fair	Fair	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Major	100%	Deadwood (>20cm)	Remove
281	Eucalyptus radiata	22	12	Good	Fair	Mature	Medium	Medium	Medium	350	300	-	500	550	6.0	2.6	Major	21%	-	Remove
282	Eucalyptus radiata	16	16	Poor	Poor	Mature	Medium	Short	Low	350	350	-	500	550	6.0	2.6	Major	100%	Severe canopy dieback	Remove
283	Eucalyptus radiata	20	9	Good	Fair	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Minor	3%	-	Retain
284	Eucalyptus tereticornis	22	22	Good	Good		Medium	Medium	Medium	800	-	_	800	850	9.6	3.1	Nil	0%	-	Retain
285	Eucalyptus radiata	18	18	Fair	Good		Medium	Medium	Medium	650	-	-	650	700	7.8	2.9	Nil	0%	Deadwood (>20cm)	Retain
286	Eucalyptus radiata	18	16	Fair	Fair	Mature	Medium	Medium	Medium	650	-	-	650	700	7.8	2.9	Major	100%	-	Remove
287	Eucalyptus fibrosa	16	14	Good	Fair	Mature	Medium	Medium	Medium	550	_	_	550	600	6.6	2.7	Major	100%	-	Remove
288	Eucalyptus radiata	18	16	Fair	Fair	Mature	Medium	Medium	Medium	700	_	-	700	750	8.4	2.9	Major	21%	Deadwood (>10cm)	Remove
289	Eucalyptus radiata	18	20	Good	Poor	Mature	Medium	Medium	Medium	800	_	-	800	850	9.6	3.1	Major	100%	Suppressed canopy	Remove
290	Eucalyptus radiata	22	18	Fair	Fair	Mature	Medium	Medium	Medium	850	-	-	850	900	10.2	3.2	Major	100%	-	Remove
291	Eucalyptus radiata	20	18	Fair	Fair	Mature	Medium	Medium	Medium	700	-	_	700	750	8.4	2.9	Major	100%	-	Remove
292	Eucalyptus radiata	20	10	Fair	Fair	Mature	Medium	Medium	Medium	650	_	_	650	700	7.8	2.9	Major	100%	-	Remove
293	Eucalyptus radiata	20	14	Good	Fair	Mature	Medium	Medium	Medium	650	_	_	650	700	7.8	2.9	Nil	0%	-	Retain
294	Eucalyptus radiata	20	16	Fair	Fair	Mature	Medium	Medium	Medium	700	_	_	700	750	8.4	2.9	Major	100%	Deadwood (>10cm)	Remove
295	Eucalyptus radiata	14	10	Fair	Fair	Semi-mature	Low	Medium		250	_	_	250	300	3.0	2.0	Major		Suppressed canopy	Remove
233	Lucalypius laulala	14	10	ıalı	ı all	Genn-mature	LOW	IVIGUIUIII	LOW	230	1 -	-	230	300	5.0	2.0	major	100/0	очерноваей оштору	I/GIIIO46

ld.	Botanical name	Height (metres)	Spread (metres diameter)	Health	Structure	Age class	Tree significance	Useful life expectancy	Priority for retention	DBH 1 (millimetres diameter)	DBH 2 (millimetres diameter)	DBH 3 (millimetres diameter)	DBH Combined (millimetres diameter)	DRB (millimetres diameter)	TPZ (metres radius)	SRZ (metres radius)	Encroachment	% Encroachment within TPZ	Other notes	Proposal
296	Eucalyptus radiata	20	18	Fair	Fair	Mature	Medium	Medium	Medium	700	250	200	800	850	9.6	3.1	Major	100%	Deadwood (>30cm)	Remove
297	Eucalyptus radiata	6	1	Poor	Poor	Mature	Low	Short	Low	450	-	-	450	500	5.4	2.5	Major	100%	Previous failure	Remove
298	Eucalyptus radiata	20	16	Fair	Fair	Mature	Medium	Medium	Medium	700	-	-	700	750	8.4	2.9	Major	100%	-	Remove
299	Eucalyptus radiata	20	24	Fair	Fair	Mature	Medium	Medium	Medium	1300	-	-	1300	1400	15.0	3.8	Major	100%	Deadwood (>10cm)	Remove
300	Eucalyptus radiata	18	18	Poor	Good	Mature	Medium	Short	Low	600	-	-	600	650	7.2	2.8	Major	100%	Severe canopy dieback	Remove
301	Eucalyptus radiata	16	14	Good	Good	Mature	Medium	Medium	Medium	600	-	-	600	650	7.2	2.8	Major	100%	-	Remove
302	Eucalyptus radiata	16	16	Fair	Fair	Mature	Medium	Medium	Medium	550	-	-	550	600	6.6	2.7	Major	100%	-	Remove
303	Eucalyptus radiata	24	24	Fair	Fair	Mature	Medium	Medium	Medium	950	-	-	950	1100	12.0	3.4	Major	100%	Severe included bark junction	Remove
304	Eucalyptus radiata	22	24	Poor	Fair	Mature	Medium	Short	Low	700	-	-	700	750	8.4	2.9	Major	100%	Severe canopy dieback	Remove
305	Eucalyptus radiata	16	14	Poor	Poor	Mature	Medium	Short	Low	700	-	-	700	750	8.4	2.9	Major	100%	Severe canopy dieback	Remove
306	Eucalyptus radiata	18	14	Poor	Fair	Mature	Medium	Short	Low	500	-	-	500	550	6.0	2.6	Nil	0%	Minor canopy dieback	Retain
307	Eucalyptus radiata	18	26	Fair	Fair	Mature	Medium	Medium	Medium	750	700	-	1000	1100	12.0	3.4	Major	100%	Basal decay	Remove
308	Eucalyptus radiata	18	26	Fair	Fair	Mature	Medium	Medium	Medium	750	700	-	1000	1100	12.0	3.4	Major	100%	Basal decay	Remove
309	Eucalyptus radiata	22	18	Poor	Fair	Mature	Medium	Short	Low	500	-	-	500	550	6.0	2.6	Major	37%	Severe canopy dieback	Remove
310	Eucalyptus radiata	20	16	Fair	Fair	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Major	38%	Deadwood (>10cm)	Remove
311	Removed	0	0							0	-	-	0	0	0.0	0.0	Nil	0%	-	Retain
312	Eucalyptus radiata	18	12	Poor	Fair	Mature	Medium	Short	Low	450	-	-	450	500	5.4	2.5	Nil	0%	Severe canopy dieback	Retain
313	Eucalyptus radiata	22	16	Fair	Fair	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Nil	0%	Deadwood (>10cm)	Retain
314	Eucalyptus radiata	16	18	Good	Good	Mature	Medium	Medium	Medium	400	-	-	400	450	4.8	2.4	Minor	6%	-	Retain
315	Eucalyptus radiata	16	16	Fair	Fair	Mature	Medium	Medium	Medium	600	-	-	600	650	7.2	2.8	Major	23%	-	Remove
316	Eucalyptus radiata	22	16	Fair	Fair	Mature	High	Medium	High	450	-	-	450	500	5.4	2.5	Major	16%	-	Retain
317	Eucalyptus radiata	16	10	Poor	Fair	Mature	Medium	Short	Low	500	-	-	500	550	6.0	2.6	Major	28%	Minor canopy dieback	Remove
318	Eucalyptus radiata	18	12	Fair	Fair	Mature	Medium	Medium	Medium	550	-	-	550	600	6.6	2.7	Major	23%	Deadwood (>10cm)	Remove
319	Eucalyptus radiata	16	10	Poor	Poor	Mature	Medium	Short	Low	500	-	-	500	550	6.0	2.6	Minor	8%	Severe canopy dieback	Retain
320	Eucalyptus viminalis	22	12	Fair	Fair	Mature	Medium	Medium	Medium	450	350	-	600	650	7.2	2.8	Nil	0%	-	Retain
321	Eucalyptus viminalis	22	16	Good	Good	Mature	High	Medium	High	500	-	-	500	550	6.0	2.6	Nil	0%	-	Retain
322	Eucalyptus viminalis	22	6	Fair	Fair	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Nil	0%	-	Retain
323	Eucalyptus viminalis	20	6	Fair	Fair	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Nil	0%	-	Retain
324	Eucalyptus sp.	12	3	Poor	Poor	Semi-mature	Low	Short	Low	150	-	-	150	150	2.0	1.5	Nil	0%	75% of the tree is dead	Retain
325	Eucalyptus ovata	14	18	Fair	Fair	Mature	Medium	Medium	Medium	600	550	-	800	850	9.6	3.1	Nil	0%	Deadwood (>20cm)	Retain
326	Eucalyptus ovata	14	16	Fair	Fair	Mature	Medium	Medium	Medium	700	-	-	700	750	8.4	2.9	Nil	0%	-	Retain
327	Eucalyptus sp.	4	2	Poor	Poor	Dead	Low	Dead	Low	450	-	-	450	500	5.4	2.5	Nil	0%	Dead tree	Retain
328	Eucalyptus ovata	12	12	Good	Good	Semi-mature	Medium	Medium	Medium	300	-	-	300	350	3.6	2.1	Nil	0%	-	Retain
329	Eucalyptus ovata	12	9	Good	Fair	Semi-mature	Low	Medium	Low	250	-	-	250	300	3.0	2.0	Nil	0%	-	Retain
330	Eucalyptus ovata	16	20	Good	Poor	Mature	Medium	Medium	Medium	500	500	-	700	750	8.4	2.9	Major	30%	Deadwood (>30cm)	Remove
331	Acacia baileyana	10	12	Fair	Fair	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Major	100%	Suppressed canopy	Remove
332	Eucalyptus ovata	14	12	Poor	Fair	Mature	Medium	Short	Low	350	-	-	350	400	4.2	2.3	Nil	0%	Severe canopy dieback	Retain

īd.	Botanical name	Height (metres)	Spread (metres diameter)	Health	Structure	Age class	Tree significance	Useful life expectancy	Priority for retention	DBH 1 (millimetres diameter)	DBH 2 (millimetres diameter)	DBH 3 (millimetres diameter)	DBH Combined (millimetres diameter)	DRB (millimetres diameter)	TPZ (metres radius)	SRZ (metres radius)	Encroachment	% Encroachment within TPZ	Other notes	Proposal
333	Eucalyptus ovata	14	16	Poor	Poor	Over-mature	Medium	Short	Low	550	550	-	800	850	9.6	3.1	Nil	0%	Deadwood (>30cm). Previous branch failures	Retain
334	Eucalyptus ovata	10	12	Fair	Poor	Semi-mature	Low	Medium	Low	250	-	-	250	300	3.0	2.0	Nil	0%	Tree is growing on a severe lean	Retain
335	Eucalyptus ovata	8	10	Fair	Poor	Mature	Low	Short	Low	300	-	ı	300	350	3.6	2.1	Nil	0%	Deadwood (>20cm)	Retain
336	Eucalyptus ovata	16	12	Fair	Fair	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Nil	0%	Minor canopy dieback	Retain
337	Eucalyptus ovata	8	7	Poor	Poor	Mature	Low	Short	Low	400	-	-	400	450	4.8	2.4	Nil	0%	Deadwood (>20cm). Crown of tree snapped out	Retain
338	Eucalyptus ovata	12	12	Fair	Poor	Mature	Medium	Short	Low	450	400	-	600	650	7.2	2.8	Nil	0%	Deadwood (>20cm). Crown of tree snapped out	Retain
339	Unknown species	8	8	Poor	Poor	Mature	Low	Medium	Low	100	-	-	100	100	2.0	1.5	Nil	0%	-	Retain
340	Eucalyptus radiata	16	6	Fair	Fair	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
341	Eucalyptus radiata	16	16	Fair	Fair	Mature	Medium	Medium	Medium	900	-	-	900	950	10.8	3.2	Major	21%	Deadwood (>20cm)	Remove
342	Eucalyptus radiata	16	16	Good	Good	Mature	Medium	Medium	Medium	500	-	1	500	550	6.0	2.6	Major	19%	-	Retain
343	Eucalyptus sp.	10	3	Poor	Fair	Dead	Low	Dead	Low	200	-	ı	200	250	2.4	1.9	Major	100%	-	Remove
344	Eucalyptus sp.	8	4	Poor	Poor	Dead	Low	Dead	Low	200	-	-	200	250	2.4	1.9	Major	100%	-	Remove
345	Eucalyptus sp.	18	14	Poor	Fair	Dead	Medium	Dead	Low	450	-	-	450	500	5.4	2.5	Major	100%	Dead tree	Remove
346	Eucalyptus radiata	18	20	Poor	Fair	Mature	Medium	Short	Low	600	-	-	600	650	7.2	2.8	Major	100%	Tree is in severe decline	Remove
347	Eucalyptus tereticornis	20	10	Good	Fair	Mature	Medium	Medium	Medium	350	-	-	350	400	4.2	2.3	Major	100%	-	Remove
348	Eucalyptus tereticornis	16	8	Fair	Fair	Semi-mature	Low	Medium	Low	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove
349	Eucalyptus tereticornis	18	14	Fair	Fair	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Major	21%	-	Remove
350	Eucalyptus ovata	16	12	Good	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Minor	2%	-	Retain
351	Eucalyptus ovata	16	12	Good	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Nil	0%	-	Retain
352	Eucalyptus radiata	12	7	Good	Fair	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
353	Eucalyptus radiata	12	7	Good	Fair	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
354	Eucalyptus ovata	14	8	Fair	Good	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Major	100%	-	Remove
355	Eucalyptus ovata	16	10	Good	Good	Mature	Medium	Medium	Medium	300	-	-	300	350	3.6	2.1	Major	100%	-	Remove
356	Eucalyptus radiata	16	16	Fair	Fair	Mature	Medium	Medium	Medium	500	450	-	600	650	7.2	2.8	Nil	0%	Deadwood (>20cm)	Retain
357	Eucalyptus ovata	18	14	Poor	Fair	Mature	Medium	Short	Low	600	-	-	600	650	7.2	2.8	Major	100%	Canopy dieback	Remove
358	Eucalyptus ovata	10	7	Fair	Poor	Mature	Low	Short	Low	700	-	-	700	750	8.4	2.9	Major	100%	Multiple previous failures	Remove
359	Eucalyptus ovata	18	12	Poor	Fair	Mature	Medium	Short	Low	450	-	-	450	500	5.4	2.5	Major	35%	Minor canopy dieback	Remove
360	Eucalyptus ovata	18	12	Poor	Fair	Mature	Medium	Short	Low	450	-	-	450	500	5.4	2.5	Major	23%	Minor canopy dieback	Remove
361	Eucalyptus ovata	20	14	Poor	Poor	Mature	Medium	Short	Low	550	-	-	550	600	6.6	2.7	Minor	6%	50% of the tree is dead	Retain
362	Eucalyptus ovata	16	16	Fair	Fair	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Minor	2%	-	Retain
363	Acacia sp.	16	16	Poor	Poor	Mature	Medium	Short	Low	600	-	-	600	650	7.2	2.8	Nil	0%	-	Retain
364	Eucalyptus radiata	12	14	Fair	Poor	Mature	Low	Medium	Low	450	-	-	450	500	5.4	2.5	Nil	0%	Suppressed canopy	Retain
365	Eucalyptus radiata	18	14	Fair	Fair	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Nil	0%	Deadwood (>10cm)	Retain
366	Eucalyptus tereticornis	18	18	Fair	Fair	Mature	Medium	Medium	Medium	850	-	-	850	900	10.2	3.2	Nil	0%	Previous root plate failure	Retain
	Eucalyptus radiata	12	6	Fair	Fair	Semi-mature	Low	Short	Low	250	-	-	250	300	3.0	2.0	Nil	0%	Suppressed canopy	Retain
	Eucalyptus radiata	18	16	Fair	Fair	Mature	Medium	Medium	Medium	550	-	-	550	600	6.6	2.7	Nil	0%	-	Retain
	Eucalyptus ovata	16	16	Fair	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Nil	0%	-	Retain

16

ld.	Botanical name	Height (metres)	Spread (metres diameter)	Health	Structure	Age class	Tree significance	Useful life expectancy	Priority for retention	DBH 1 (millimetres diameter)	DBH 2 (millimetres diameter)	DBH 3 (millimetres diameter)	DBH Combined (millimetres diameter)	DRB (millimetres diameter)	TPZ (metres radius)	SRZ (metres radius)	Encroachment	% Encroachment within TPZ	Other notes	Proposal
370	Eucalyptus ovata	14	16	Fair	Fair	Mature	Medium	Medium	Medium	500	-	-	500	550	6.0	2.6	Nil	0%	-	Retain
371	Eucalyptus sp.	8	10	Poor	Fair	Dead	Medium	Dead	Low	700	600	-	900	950	10.8	3.2	Nil	0%	Dead tree	Retain
372	Eucalyptus ovata	14	12	Fair	Fair	Mature	Low	Medium	Low	350	-	-	350	400	4.2	2.3	Nil	0%	Minor canopy dieback	Retain
373	Eucalyptus ovata	10	7	Fair	Poor	Over-mature	Low	Short	Low	600	-	-	600	650	7.2	2.8	Nil	0%	Epicormic regrowth	Retain
374	Eucalyptus radiata	18	20	Fair	Fair	Mature	Medium	Medium	Medium	900	-	-	900	950	10.8	3.2	Nil	0%	Deadwood (>20cm)	Retain
375	Eucalyptus sp.	12	10	Fair	Fair	Mature	Low	Medium	Low	400	-	-	400	450	4.8	2.4	Nil	0%	Tree is growing on a lean	Retain
376	Eucalyptus ovata	9	8	Fair	Fair	Semi-mature	Low	Medium	Low	200	-	-	200	250	2.4	1.9	Nil	0%	-	Retain
377	Eucalyptus ovata	16	16	Fair	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Nil	0%	-	Retain
378	Eucalyptus ovata	16	16	Fair	Fair	Mature	Medium	Medium	Medium	450	-	-	450	500	5.4	2.5	Nil	0%	-	Retain

4 Discussion

4.1 Nil encroachment

A total of 128 trees will be subject to no encroachment within the TPZ:

- Retain: A total of 128 trees are located outside of the proposed construction footprint. No
 impacts on these trees are foreseeable under the current proposal.
- Remove: No trees within the category of "nil encroachment" are proposed for removal.

4.2 Minor encroachment

A total of 35 trees will be subject to a minor encroachment of less than 10% within the TPZ:

- Retain: A total of 35 trees will be subject to a minor encroachment of less than 10% within
 the TPZ. The encroachment will not impact the SRZ and is highly unlikely to impact the
 overall health or condition of these trees. Under the current proposal, these trees can be
 successfully retained.
- Remove: No trees within the category of "minor encroachment" are proposed for removal.

4.3 Major encroachment

A total of 215 trees will be subject to a major encroachment of greater than 10% within the TPZ:

- Retain: A total of 22 trees will be subject to a major encroachment of less than 20% within the TPZ. Encroachment of up to 20% on one side of the tree (linear excavation) can be achieved without significantly impacting the health or stability of the tree (Roberts, Jackson and Smith 2006, p.295²; Costello, Watson and Smiley 2017, p.21³). Several site-specific mitigations for these encroachments have been outlined in the Tree Protection Plan. Under the current proposal, these trees can be successfully retained.
- Remove: A total of 193 trees will be subject to a major encroachment of greater than 20% within the TPZ. Encroachment of greater than 20% can begin to impact the structural root zone (SRZ) and is more likely to compromise tree stability" (Costello, Watson, and Smiley (2017, p.21³). Impacts within the SRZ are not recommended as it may lead to the destabilisation and/or decline of the tree. These trees are located within, or directly adjacent to the proposed construction footprint and cannot be retained under the current proposal.

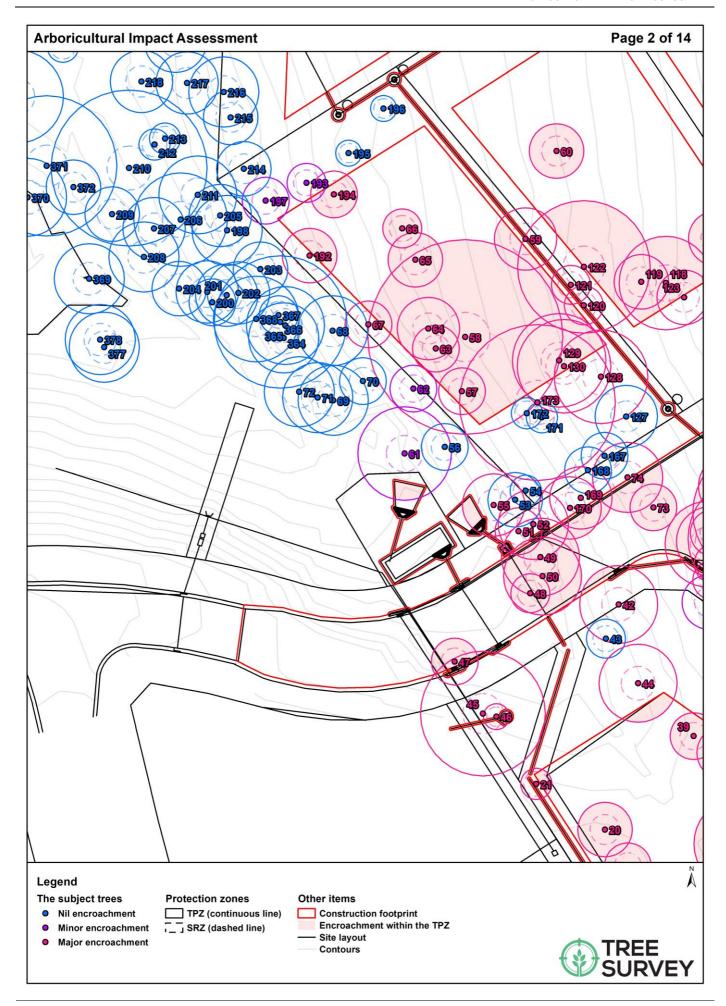
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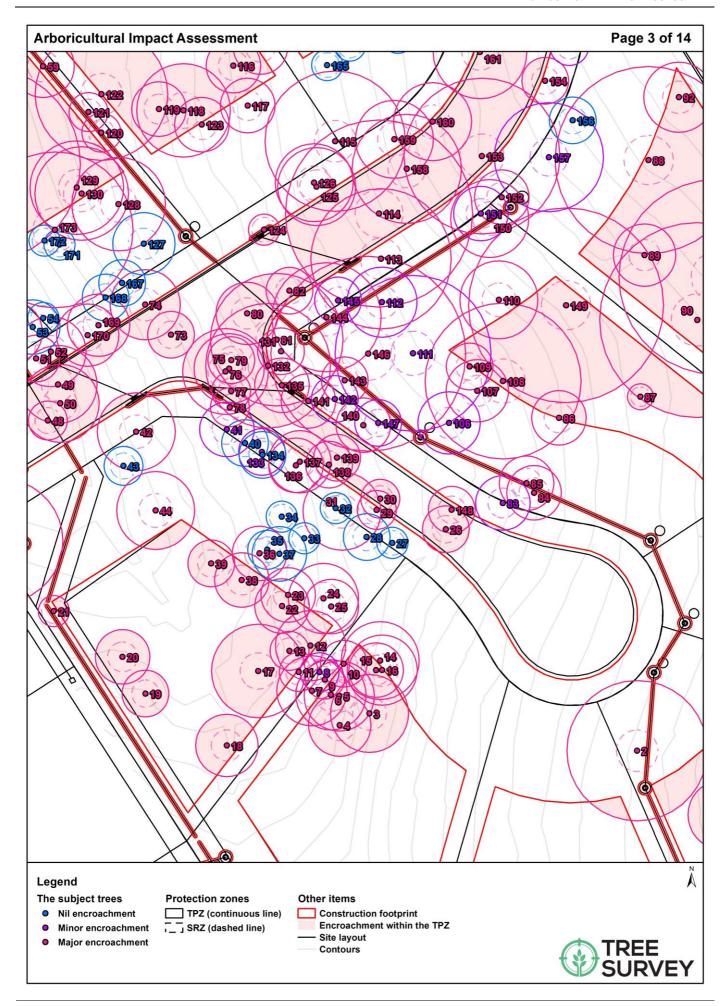
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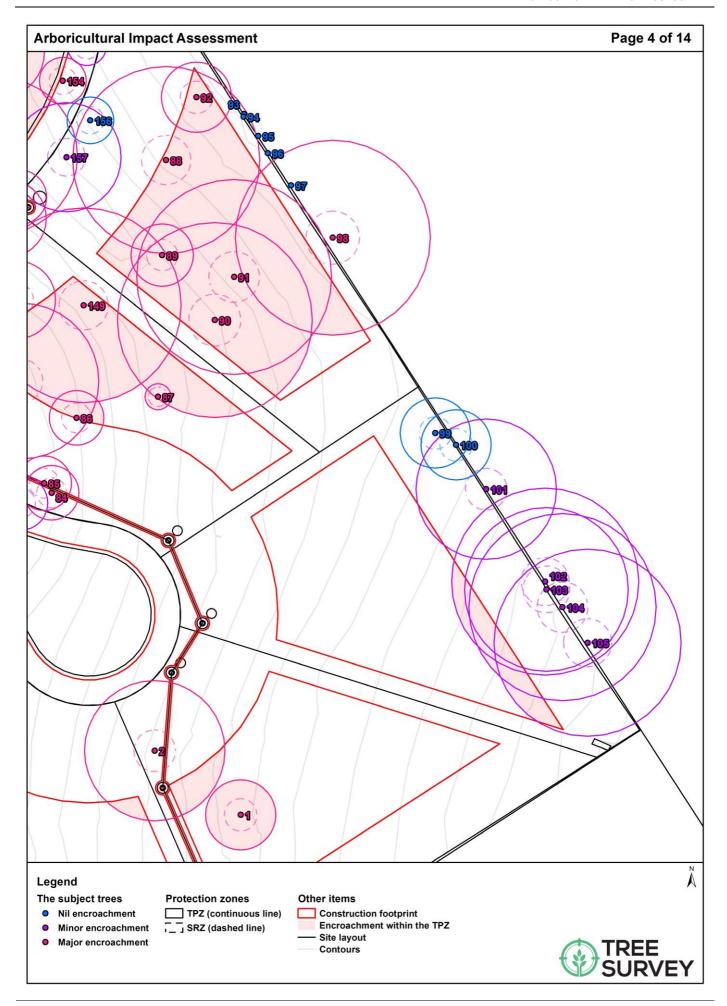
² Roberts, J., Jackson, N. and Smith, D. (2006). Tree roots in the built environment.

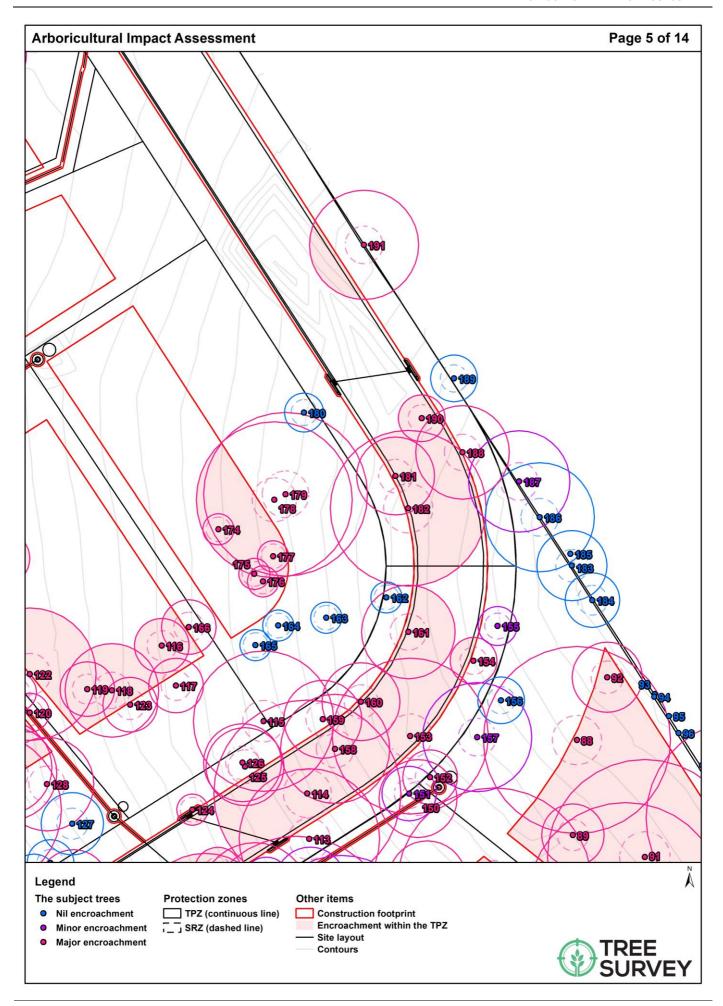
³ Costello, L., Watson, G. and Smiley, E., 2017. Root Management. International Society of Arboriculture.

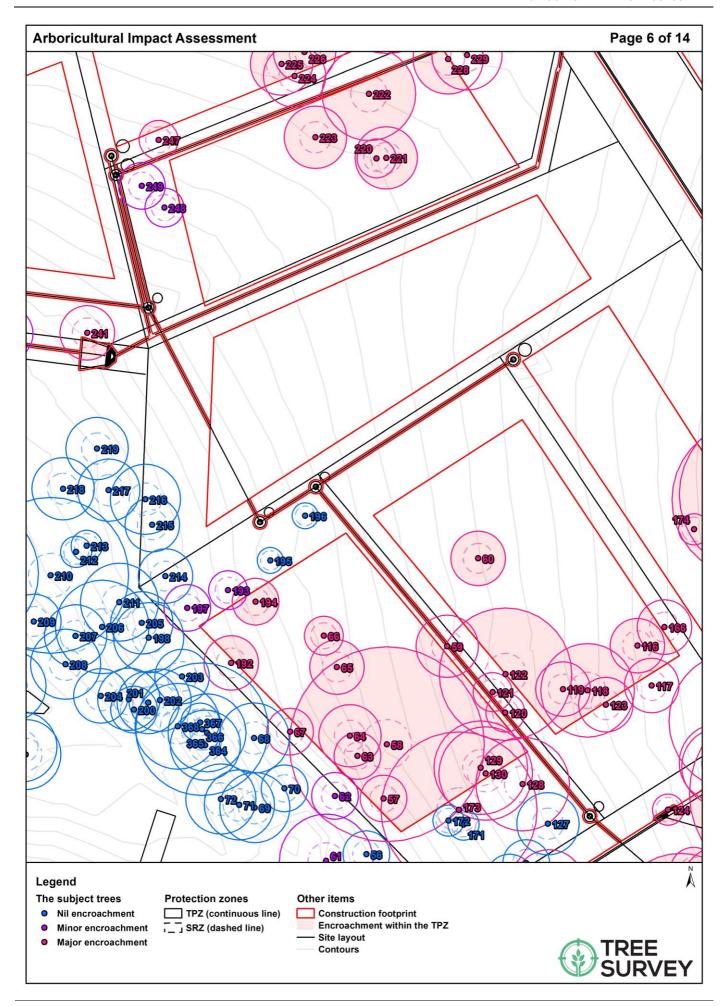


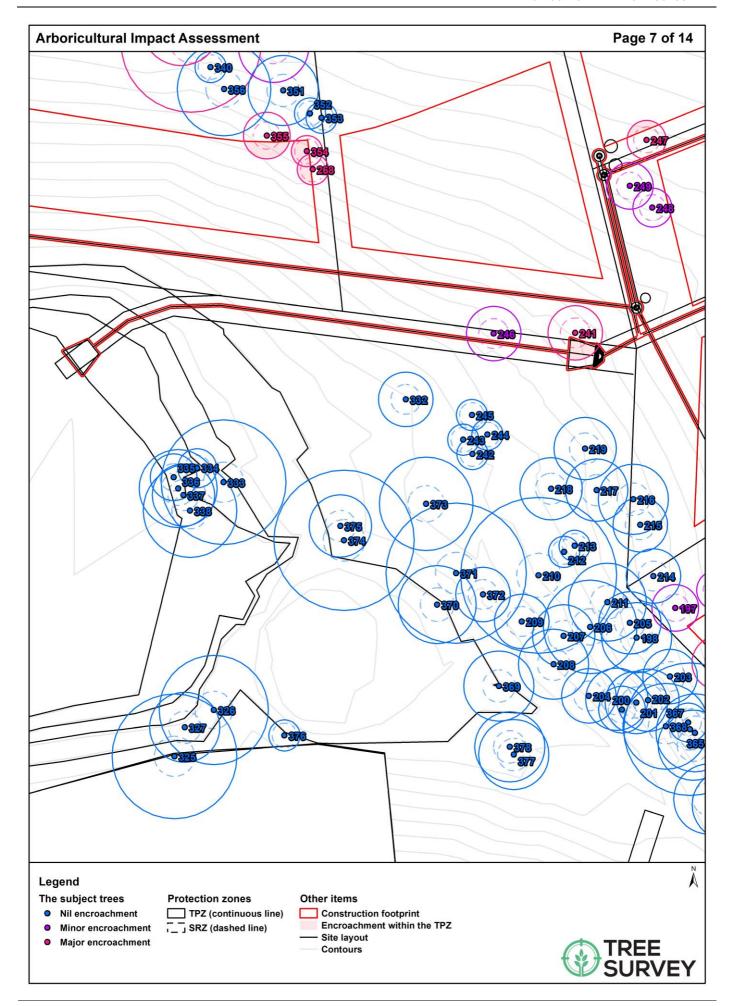


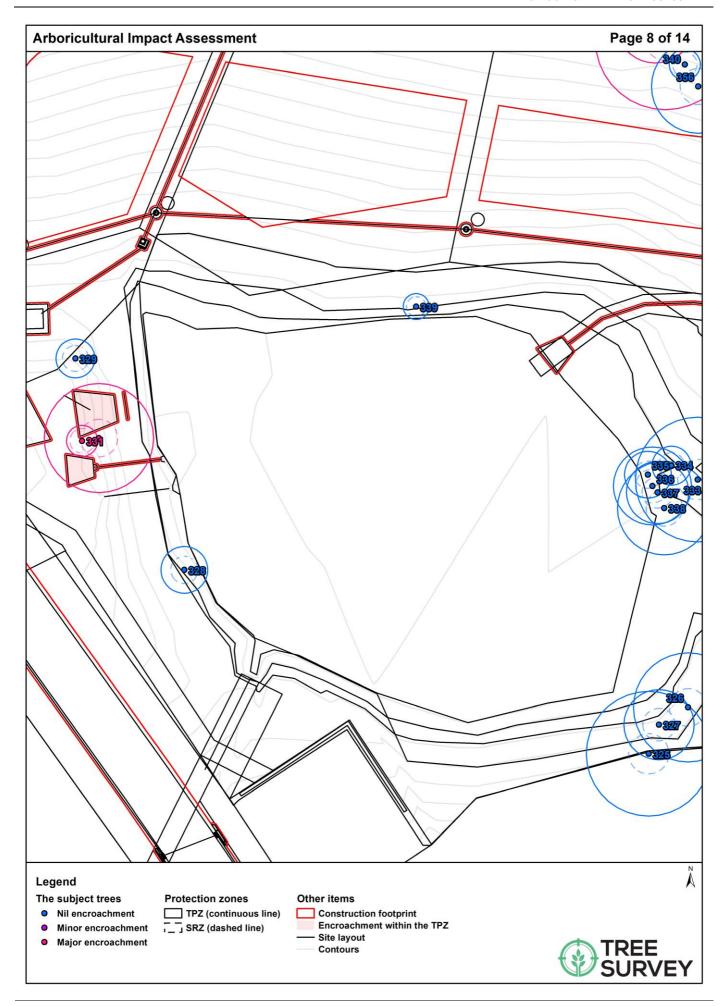


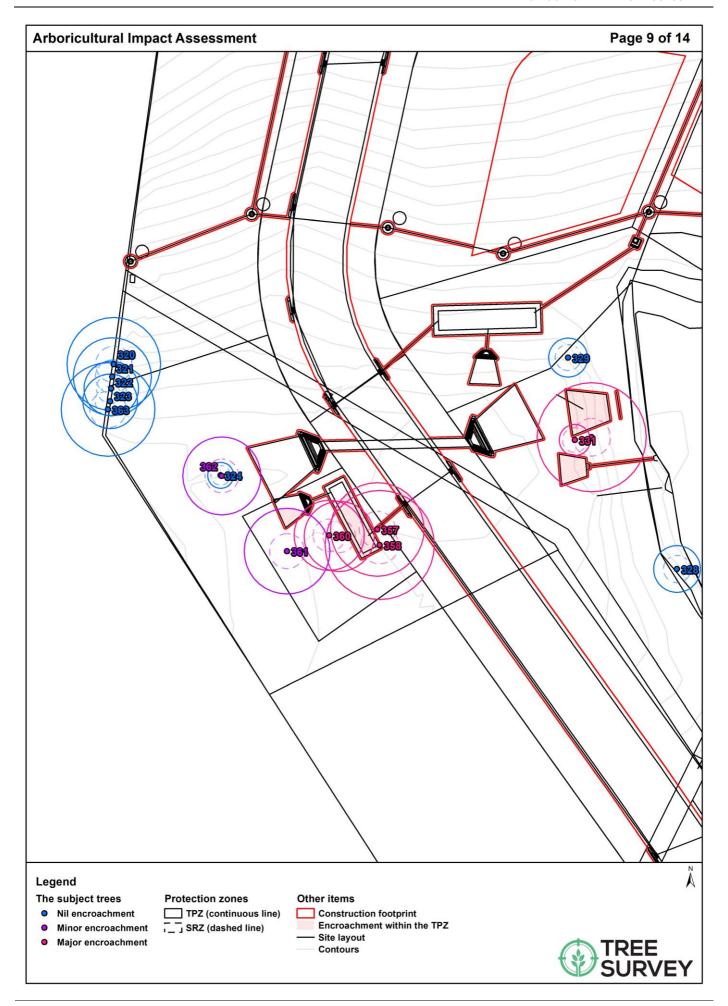


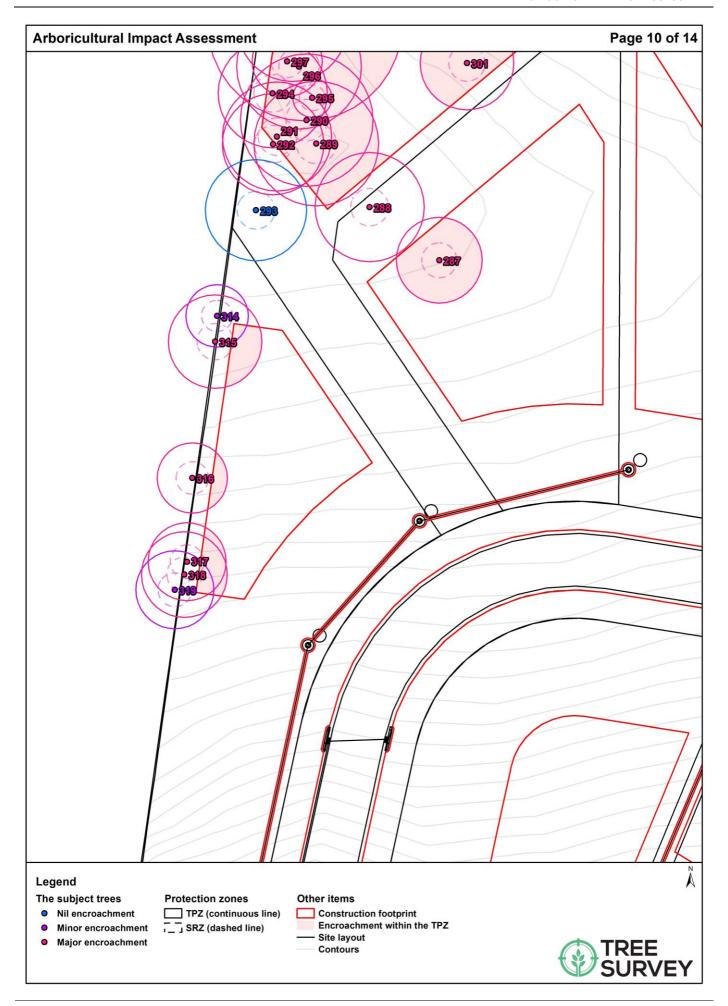


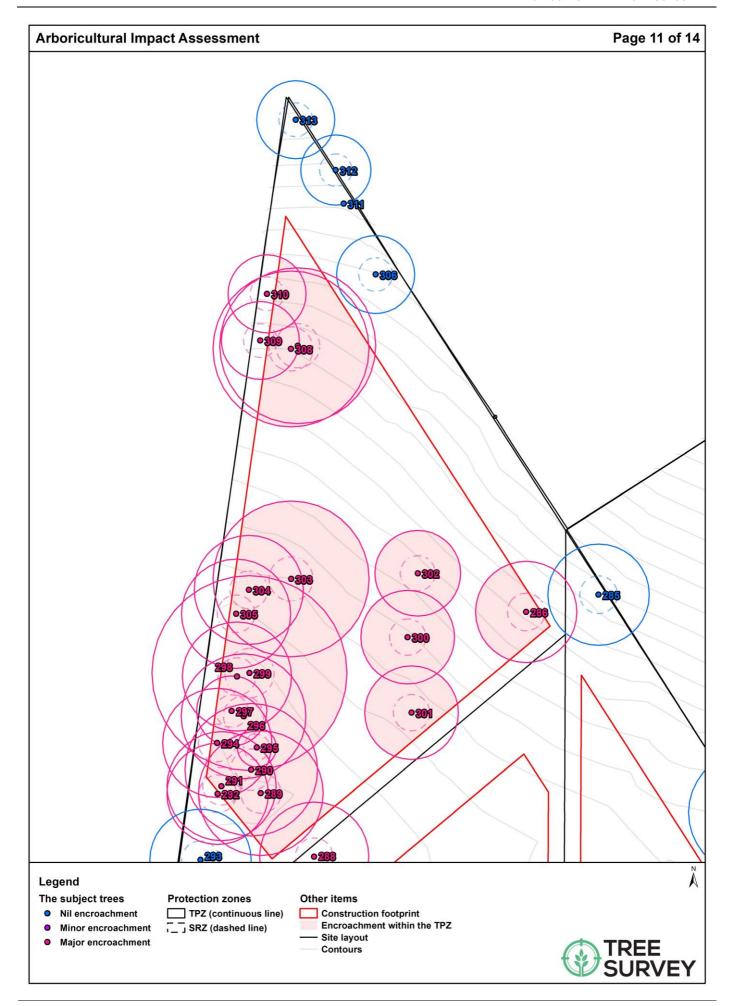


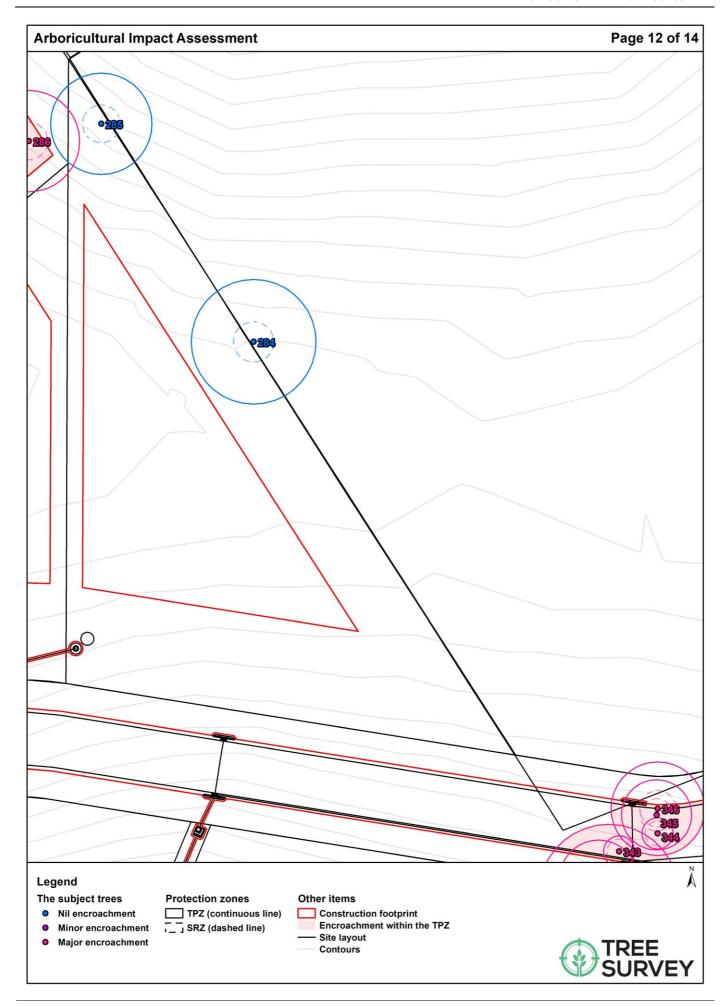


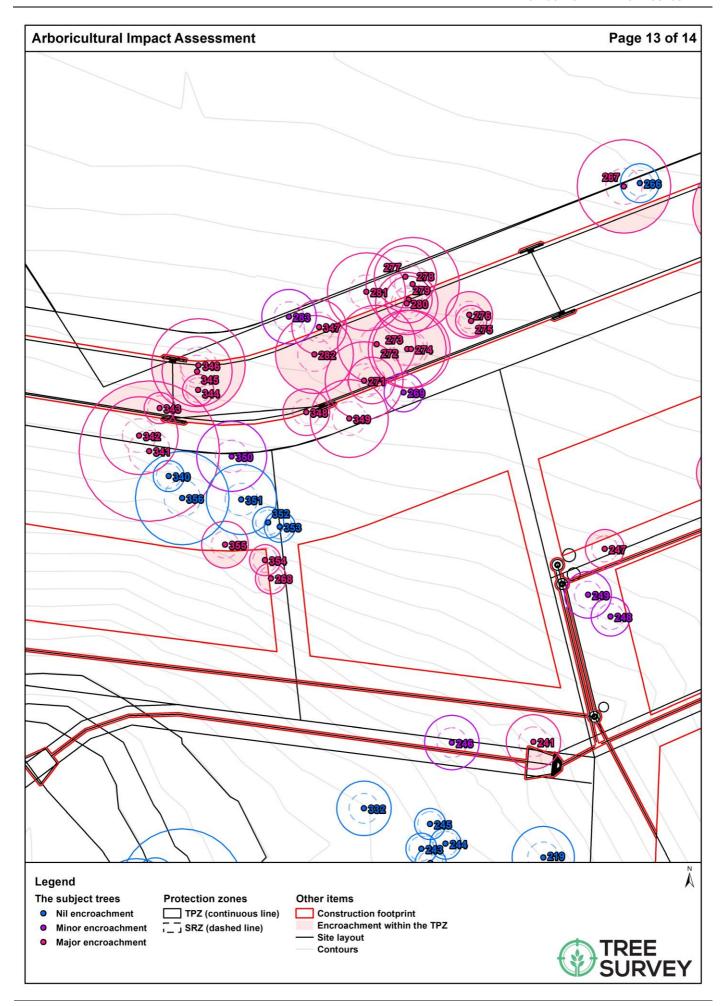


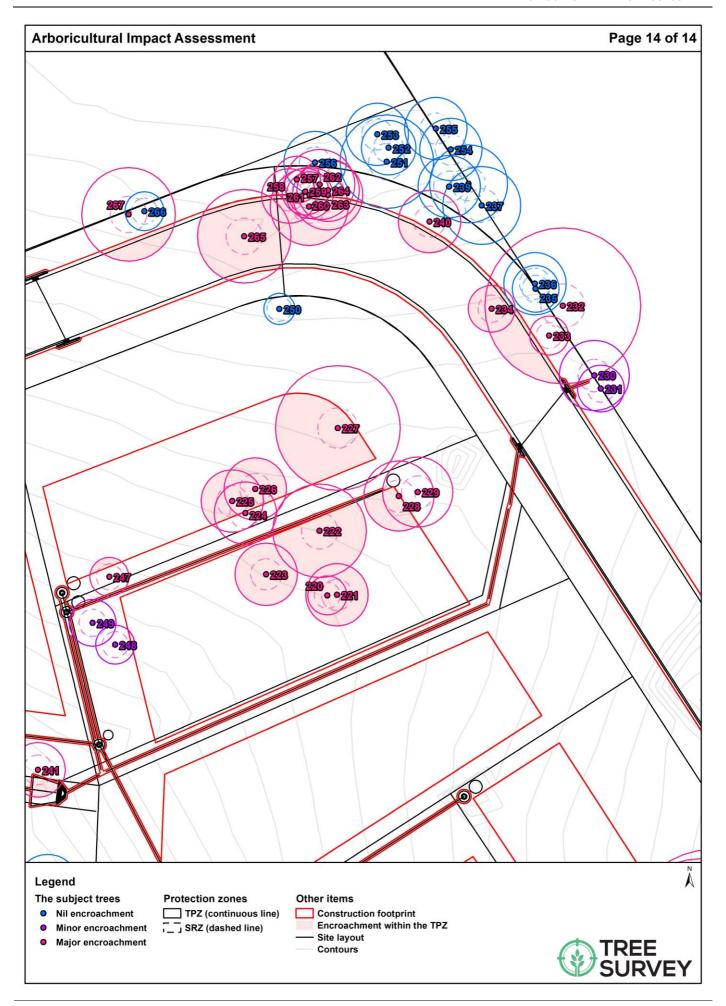












5 Tree Protection Plan (TPP)

5.1 Tree removal and retention

A summary of the total proposed tree removals is outlined below:

- Retain: A total of 185 trees are proposed for retention.
- Remove: A total of 193 trees are proposed for removal.

No additional trees are required to be removed to meet APZ requirements. Please refer to the Harris Environmental Addendum Letter, dated 3 August 2022.

5.2 Tree removal

All tree removal work is to be carried out by an arborist with a minimum AQF Level 3 qualification in Arboriculture, in accordance with Australian Standard AS4373-2007, Pruning of Amenity Trees (AS4373), the Work Health and Safety Act 2011, and Work Health and Safety Regulations 2017.

5.3 Tree pruning

Minor vegetation trimming may be required to accommodate construction clearances. Standard pruning specifications are outlined below:

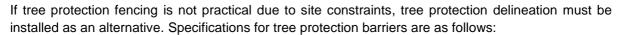
- Pruning must not exceed 10% of the overall canopy volume.
- No limbs greater than 100mm in diameter are to be removed.
- The final pruning cut shall be at the branch collar or growth point in accordance with AS4373.
- All tree pruning work is to be carried out by an arborist with a minimum AQF Level 3
 qualification in Arboriculture, in accordance with AS4373 and the NSW WorkCover Code of
 Practice for the Amenity Tree Industry (1998).

If proposed vegetation trimming does not meet the specifications outlined above, the project arborist must undertake an assessment of impacts on a case-by-case basis.

5.4 Tree protection fencing

Tree protection fencing must be established at the locations shown in the TPP. Existing fencing, site hoarding, or structures (such as a wall or building) may be used as tree protection fencing, providing the TPZ remains isolated from the construction footprint. Tree protection fencing must be installed prior to site establishment and remain intact until the completion of works. Once erected, protective fencing must not be removed or altered without the approval of the project arborist. Specifications for the tree protection fencing are as follows:

- Temporary mesh panel fencing (minimum height of 1.8m).
- Installed prior to site establishment and remain intact until the completion of works.
- Protective fencing must not be removed or altered without the approval of the project arborist.
- Prominently signposted with 300mm x 450mm boards stating,
 "NO ACCESS TREE PROTECTION ZONE."
- Certified and inspected by the project arborist.



- Star pickets spaced at 2m intervals,
- Connected by a continuous high-visibility barrier/hazard mesh or flagging rope.
- Maintained at a minimum height of 1m.

Where approved works are required within the TPZ, fencing may be setback to provide construction access. Trunk, branch, and ground protection shall be installed and must comply with AS4970. Any additional construction activities within the TPZ of the subject trees must be assessed and approved by the project arborist.

5.5 Restricted activities within the TPZ

The TPZ is an area that is isolated from the work zone to ensure no disturbance or encroachment occurs in this zone. Activities generally excluded from the TPZ (unless otherwise approved under the development consent) include, but are not limited to:

- Machine excavation and trenching.
- Ripping or cultivation of the soil.
- Storage of building materials, waste, and waste receptacles.
- Disposal of waste materials and chemicals including paint, solvents, cement slurry, fuel, oil, and other toxic liquids.
- Movement and storage of plant, equipment, and vehicles.
- Soil level changes, including the placement of fill material.
- Mechanical removal of vegetation.
- Affixing of signage or hoardings to trees.
- Other physical damage to the trunk or root system.
- Any other activity that is likely to cause damage to the tree.



5.6 Trunk protection

Where the provision of tree protection fencing is impractical or must be temporarily removed, trunk protection shall be installed to avoid accidental mechanical damage.

Specifications for trunk protection are as follows:

- A thick layer of carpet underfelt, geotextile fabric, or similar wrapped around the trunk to a minimum height of 2m.
- 1.8m lengths of softwood timbers aligned vertically and spaced evenly around the trunk (with a small gap of approximately 50mm between the timbers).
- The timbers must be secured using galvanised hoop strap (aluminium strapping).

The timbers shall be wrapped around the trunk but not fixed to the tree, as this will cause injury/damage to the tree.

5.7 Ground protection

If temporary access for vehicle, plant, or machinery is required within the TPZ ground protection shall be installed. The purpose of ground protection is to prevent root damage and soil compaction within the TPZ. Where possible, areas of the existing pavement shall be used as ground protection.

Specifications for light traffic access (<3.5 tonne) are as follows:

- Permeable membrane such as geotextile fabric.
- A layer of mulch or crushed rock (at a minimum depth of 100mm)

Specifications for heavy traffic access (>3.5 tonne) are as follows:

- Permeable membrane such as geotextile fabric.
- A layer of lightly compacted road base (at a minimum depth of 200mm)
- Geotextile fabric shall extend a minimum of 300mm beyond the edge of the road base.
- Heavy vehicle track mats, road plates, access mats, or similar.

Pedestrian, vehicular, and machinery access within the TPZ shall be restricted solely to areas where ground protection has been installed.

5.8 Mulch

The area within the TPZ should be mulched with good quality composted wood chip/leaf mulch and should be maintained at a depth of 150mm-200mm. Mulching around the base of the tree will provide nutrients and organic matter to the soil as it breaks down, improving and maintaining the overall health of the trees.

5.9 Demolition

The demolition of all existing structures inside or directly adjacent to the TPZ of trees to be retained must be undertaken in consultation with the project arborist. Any machinery is to work from inside the footprint of the existing structures or outside the TPZ, to minimise soil disturbance and compaction. If it is not feasible to locate demolition machinery outside the TPZ of trees to be retained, ground protection will be required. The demolition should be undertaken inwards into the footprint of the existing structures, sometimes referred to as the 'top-down, pull back' method.

5.10 Excavations

The project arborist must supervise and certify that all excavations and root pruning are in accordance with AS4373 and AS4970. All excavations (including root investigations) within the TPZ must be carried out using tree-sensitive methods under the supervision of the project arborist (see **Tree Protection Plan**). These methods may include:

- Manual excavation: Use of hand tools such as spades, trowels, and brushes.
- Air spade: Use of a pressurised air device that blows the soil away and leaves roots intact.
- **Hydro-vacuum excavation:** Use of pressurised water to remove soil from around roots.

The recommended techniques for common types of excavations have been outlined below:

- Continuous strip footings: Manual excavation, air spade, or hydro-vacuum is utilised excavation lines within the TPZ prior to the commencement of mechanical excavation. Excavation should be a depth of 1 metre (or to unfavourable root growth conditions such as bedrock or heavy clay, if agreed by the project arborist). Any conflicting roots shall be pruned using clean, sharp secateurs or a pruning saw to ensure a clean cut, free from tears. All root pruning must be documented and carried out by the project arborist. After all root pruning is completed, machine excavation is permitted within the footprint of the structure.
- Post or pier footings: Manual excavation, air spade, or hydro-vacuum is utilised at the
 location of pier footings within the TPZ. Any conflicting roots shall be pruned using clean,
 sharp secateurs or a pruning saw to ensure a clean cut, free from tears. All root pruning must
 be documented and carried out by the project arborist. After all root pruning is completed,
 machine excavation is permitted within the footprint of the structure.

No over-excavation, battering, or benching shall be undertaken beyond the footprint of any structure unless approved by the project arborist.

5.11 Underground services

Where possible, underground services should be routed outside of the TPZ. If underground services need to be installed within the TPZ, they must be installed using tree-sensitive excavation methods under the supervision of the project arborist. Alternatively, boring methods such as horizontal directional drilling (HDD) may be used for underground service installation, providing the installation is at a minimum depth of 800mm below grade. Excavations for entry/exit pits must be located outside the TPZ.

5.12 Root pruning

Any conflicting roots greater than 50mm in diameter identified during the supervised excavations shall be pruned using clean, sharp secateurs or a pruning saw to ensure a clean cut, free from tears. All root pruning (>50mm) must be documented and carried out by the project arborist.

5.13 Site inspections

In accordance with AS4970, inspections must be conducted by the project arborist at the following key project stages:

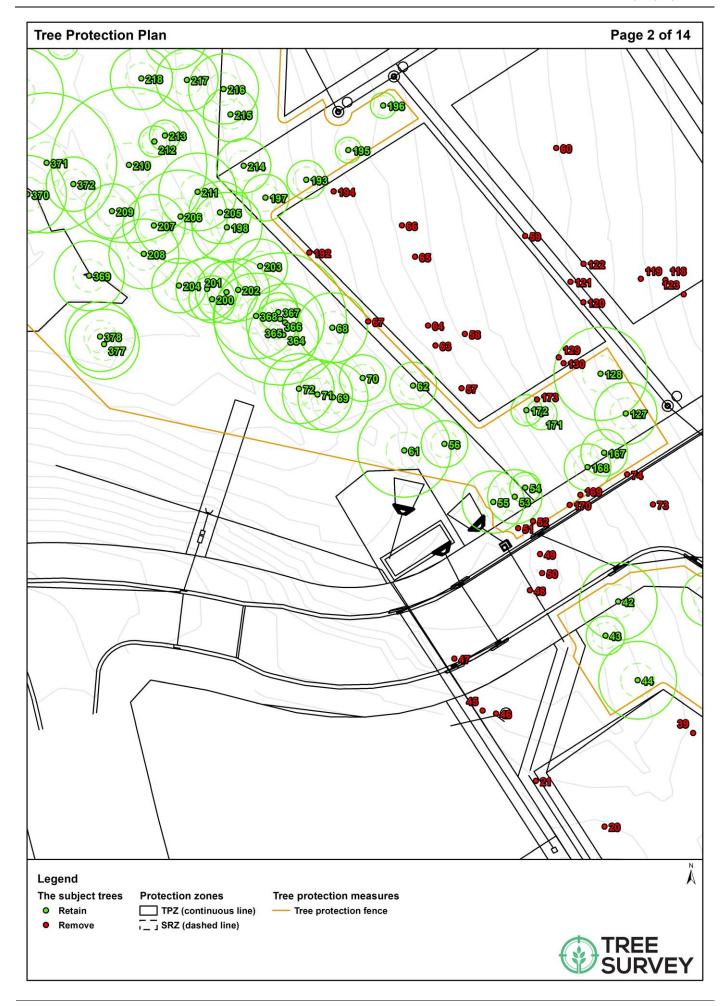
- Prior to any work commencing on-site (including demolition, earthworks, or site clearing) and following the installation of tree protection.
- During any excavations, building works, and any other activities carried out within the TPZ of any tree to be retained & protected.
- A minimum of once per 12 weeks (every 3 months) during the construction phase for trees with a major encroachment within the TPZ.
- After all major construction has ceased, following the removal of tree protection.

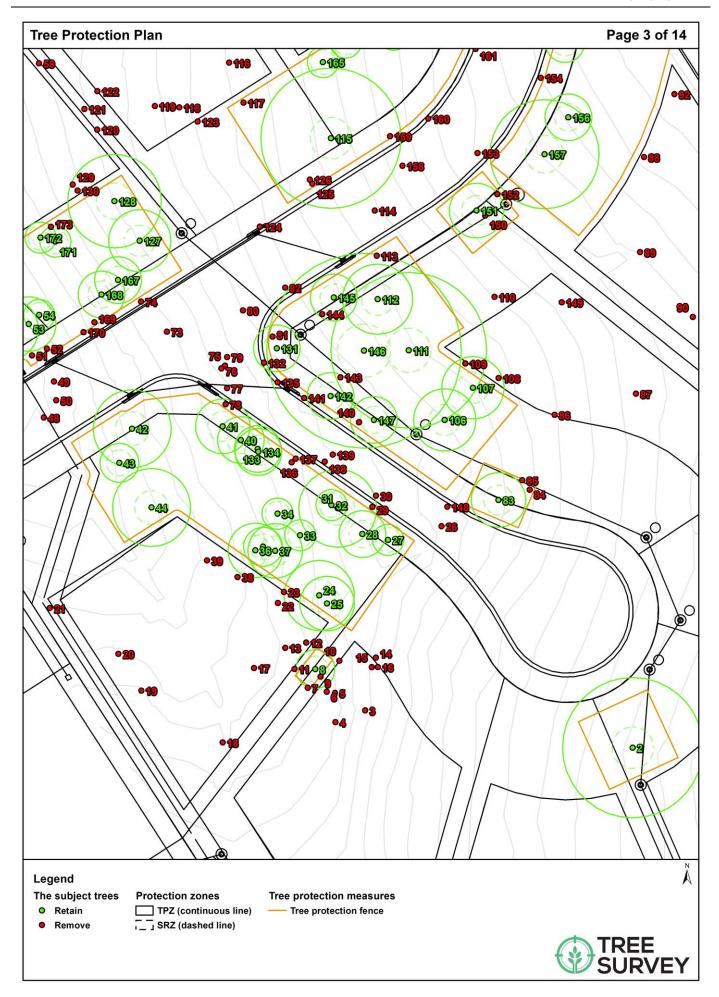
It shall be the responsibility of the project manager to notify the project arborist prior to any works within the TPZ of any protected tree at a minimum of 48 hours' notice. To ensure the tree protection plan is implemented, hold points have been specified in the schedule of work (**Table 4**).

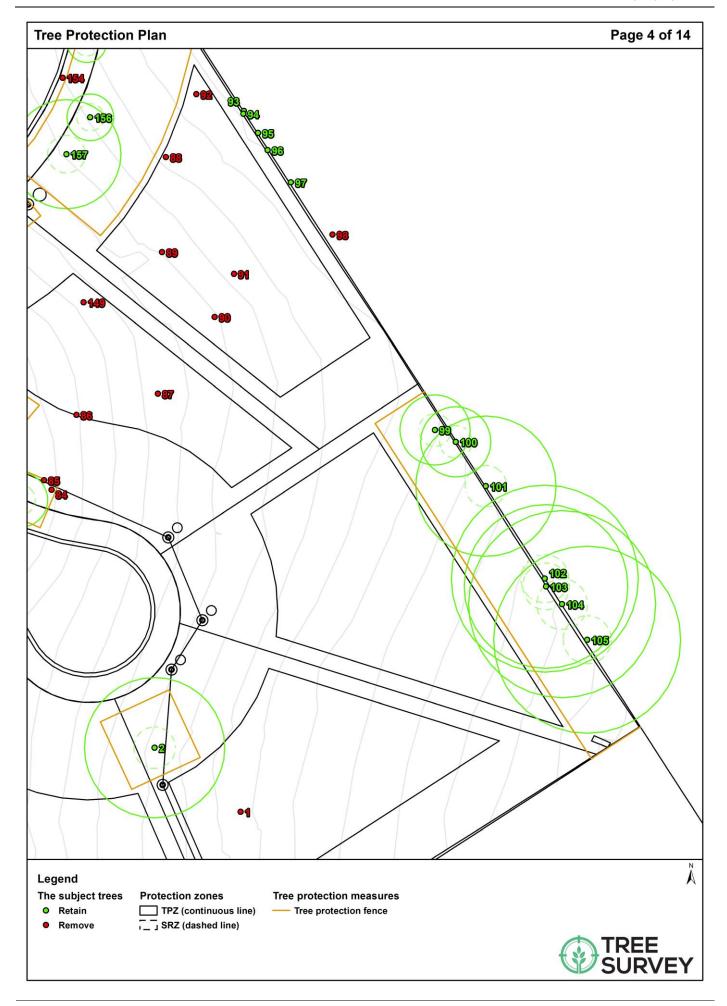
Table 4: Schedule of work

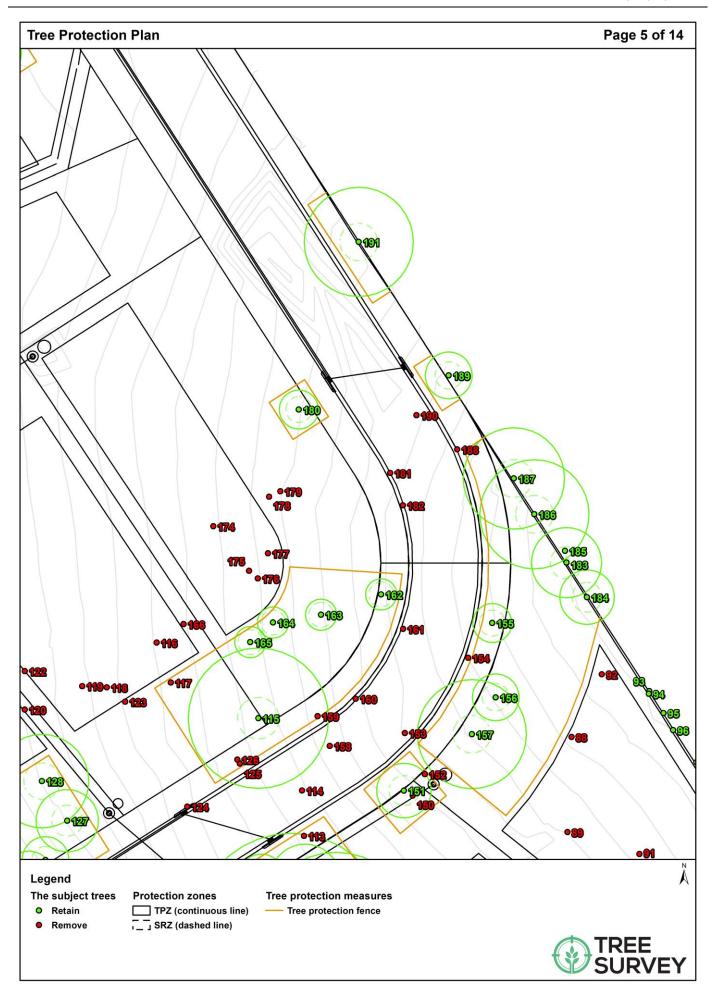
Construction stage	Hold point	Description	
Pre-construction	Tree protection (for trees that will be retained) shall be installed prio demolition and site establishment. This may include the mulching of within the TPZ. The project arborist shall inspect and certify tree pro		
During Construction	2	Project arborist to supervise and document any significant works carried out within the TPZ of trees to be retained.	
	3	Scheduled inspection of trees by the project arborist should be undertaken approximately every 12 weeks (3 months) during the construction period.	
Post Construction	4	Final inspection of trees by project arborist.	

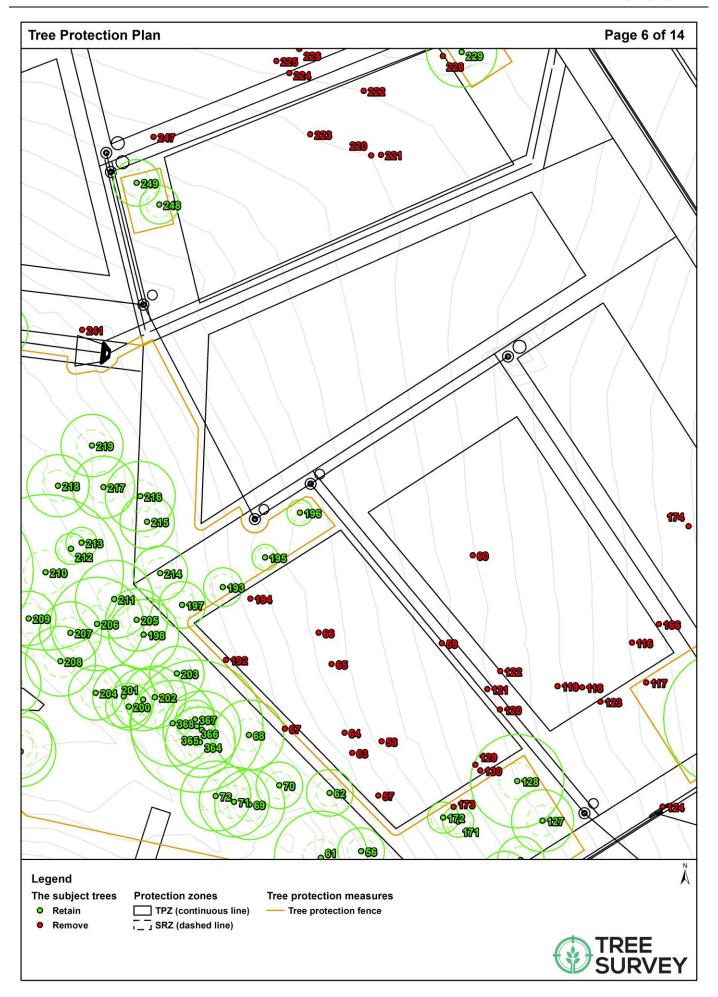


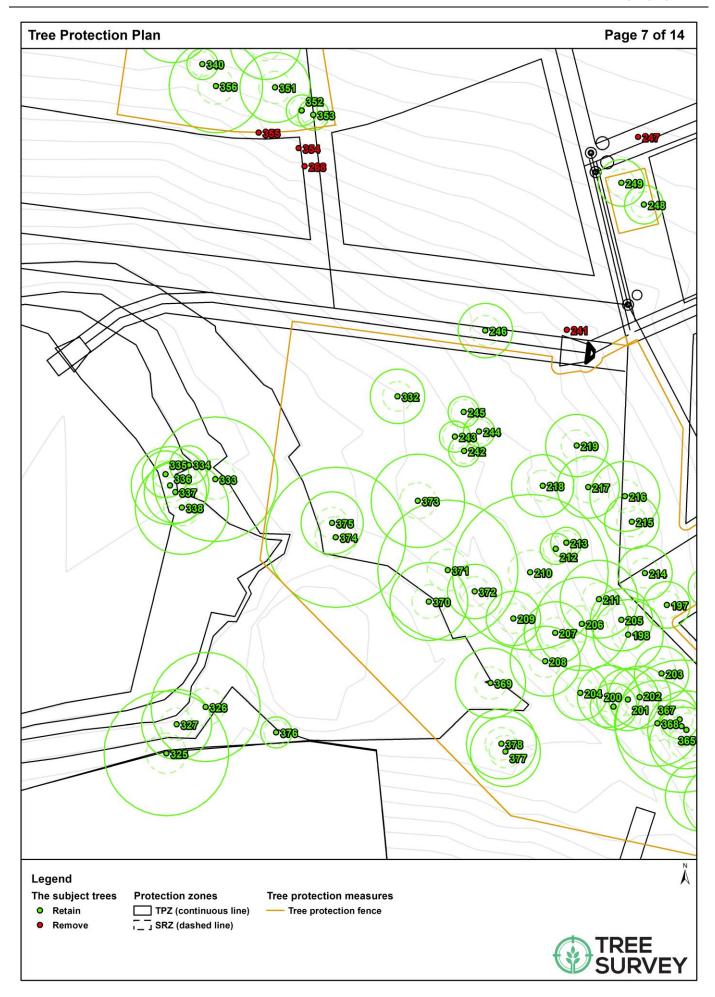


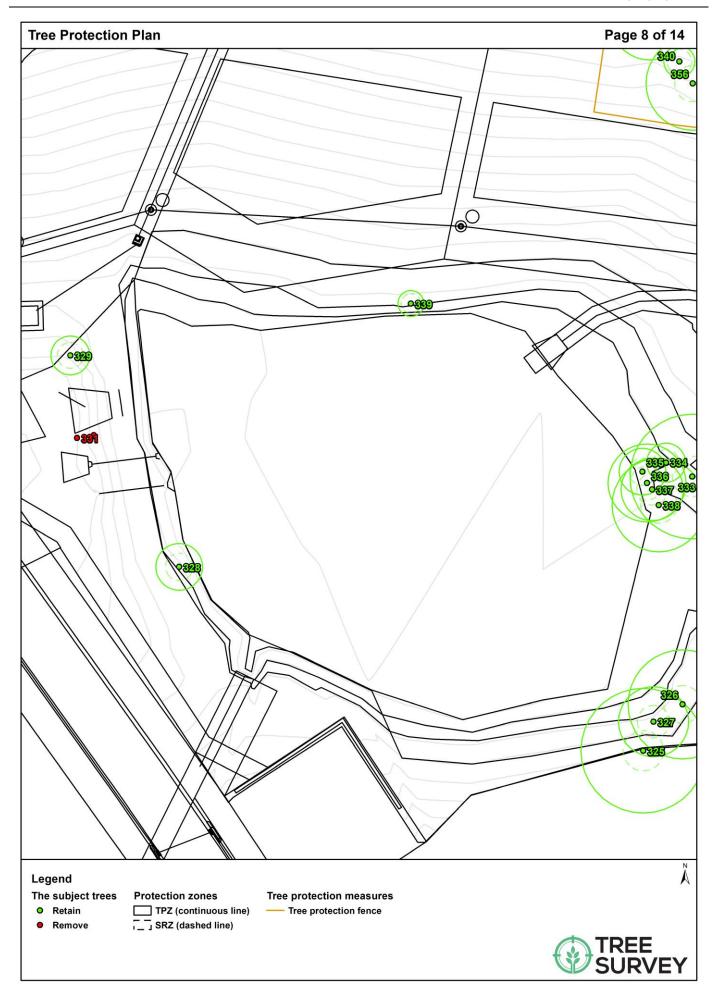


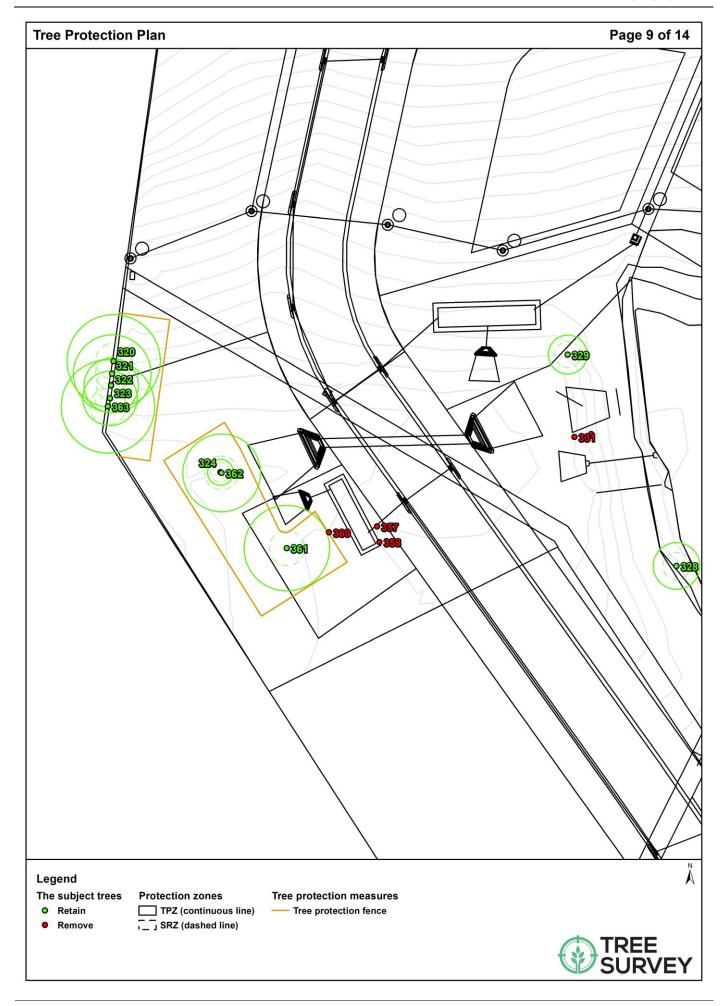


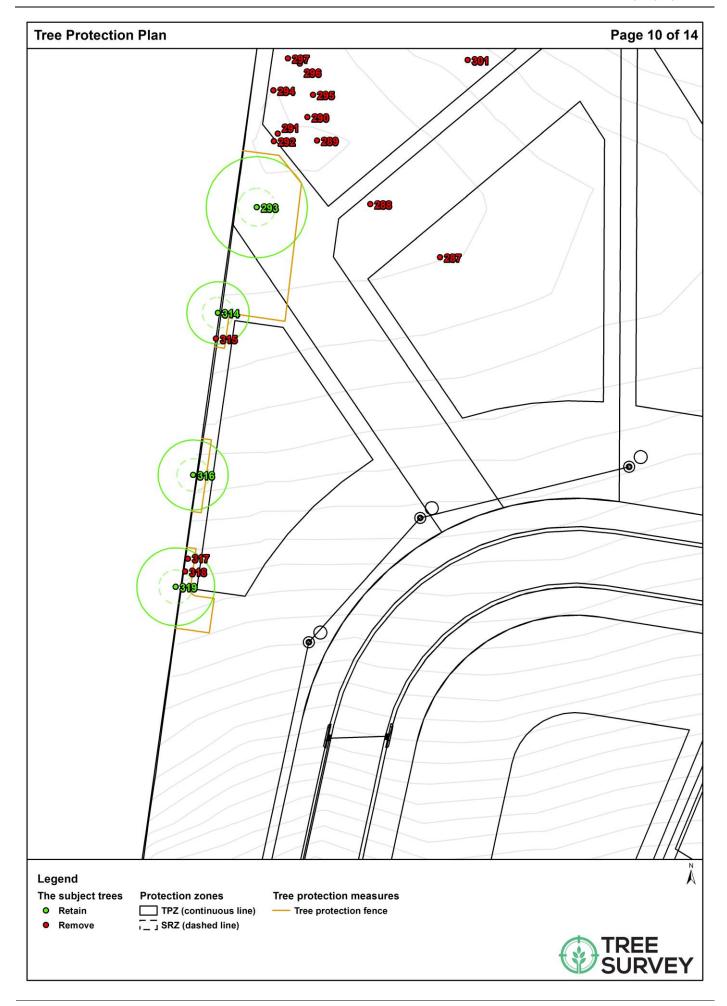


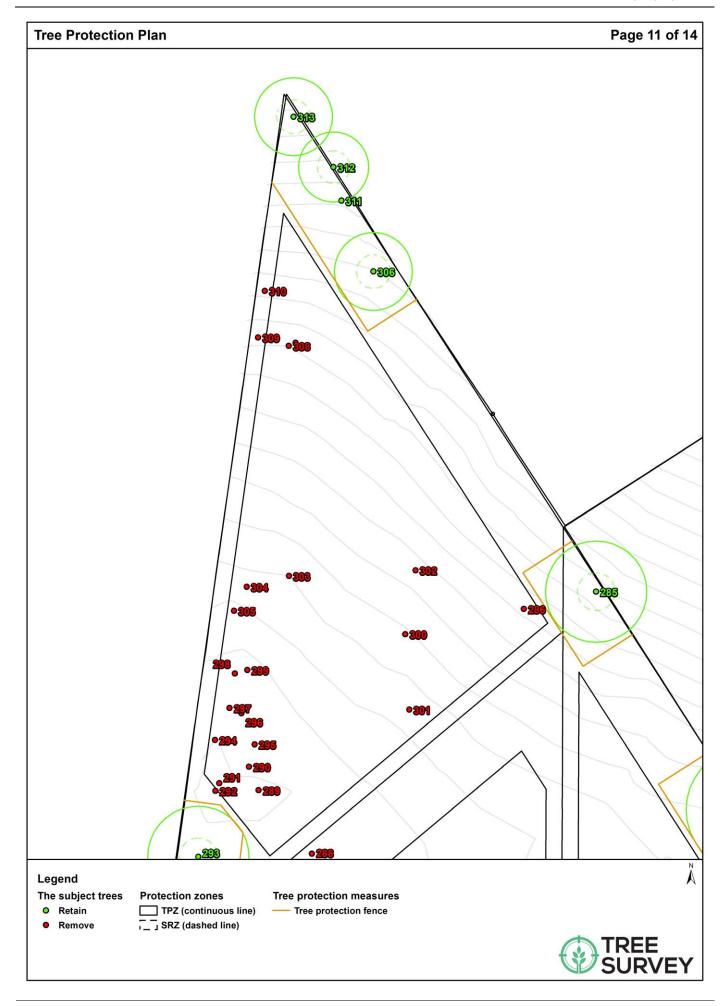


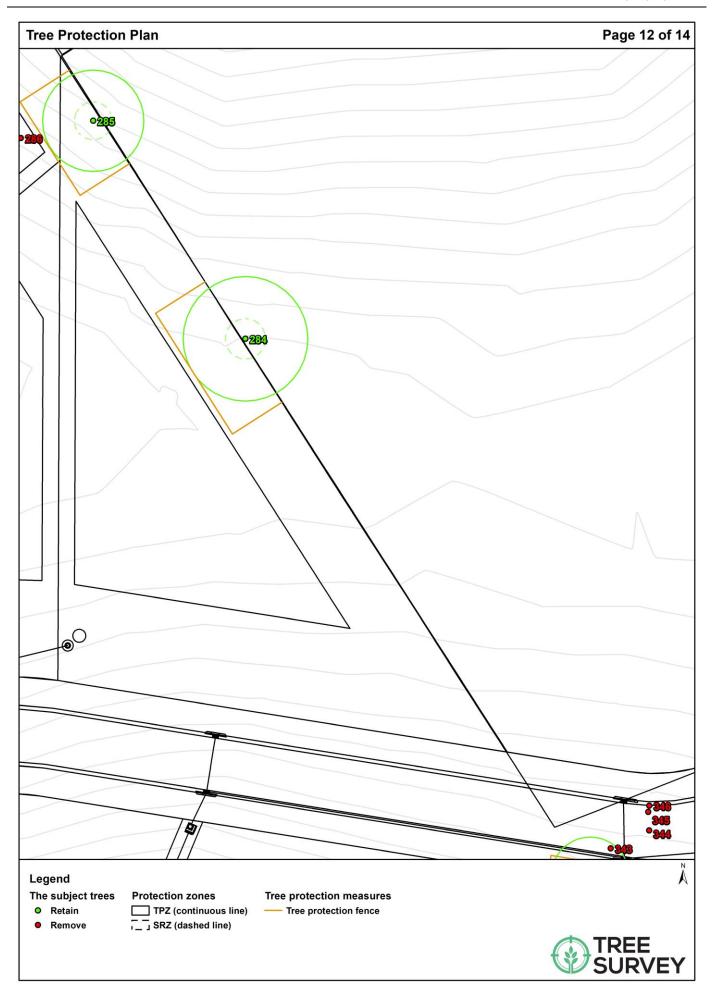


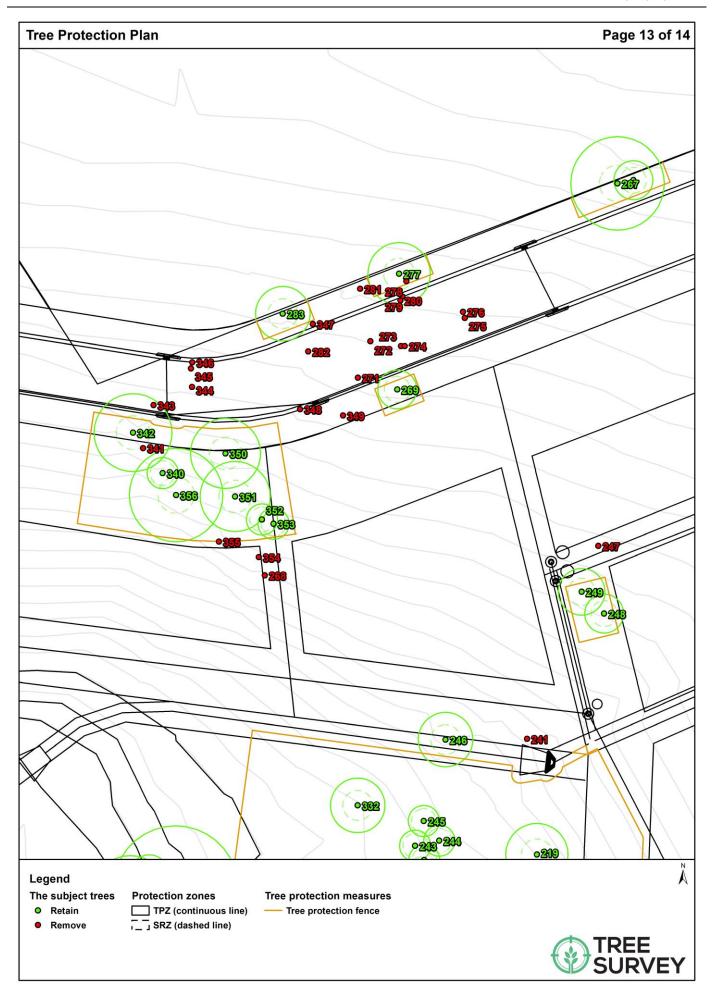


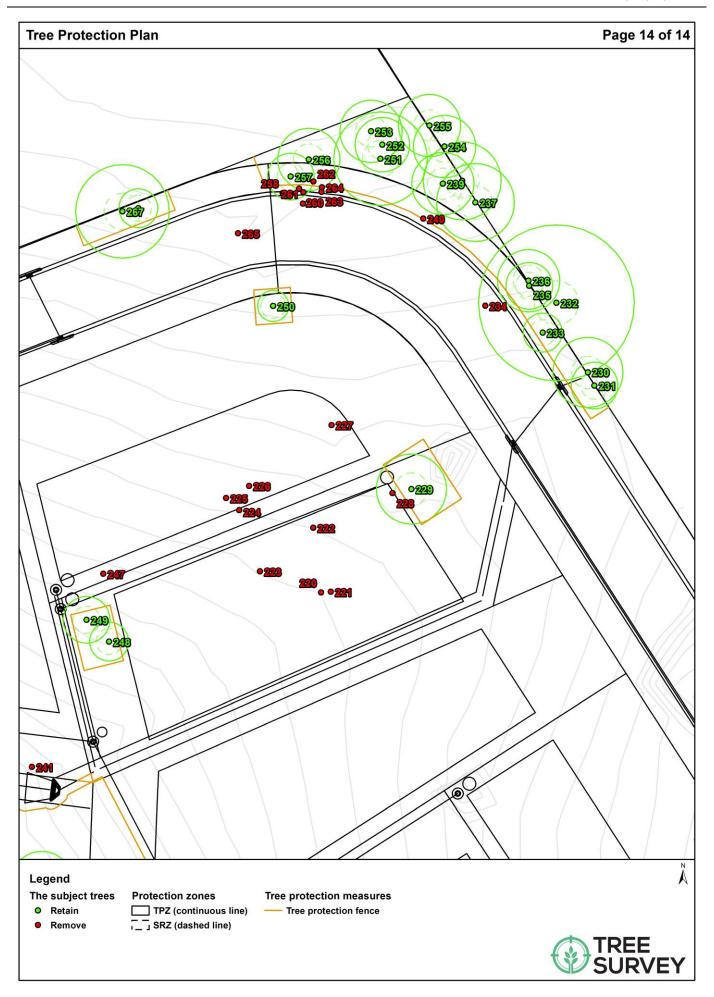












6 References

Australian Standard, AS 4970-2009, Protection of Trees on Development Sites

Australian Standard, AS 4373-2007, Pruning of Amenity Trees.

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Mattheck, C., Lonsdale, D. and Breloer, H. (1994). The body language of trees. London: H.M.S.O.

Roberts, J., Jackson, N. and Smith, D. (2006). Tree roots in the built environment.

Appendix I - STARS© assessment matrix

The retention value of a tree or group of trees is determined using a combination of environmental, cultural, physical, and social values.

- **Low:** These trees are not considered important for retention, nor require special works or design modification to be implemented for their retention.
- Medium: These trees are moderately important for retention. Their removal should only be considered if
 adversely affecting the proposed building/works, and all other alternatives have been considered and
 exhausted.
- High: These trees are considered important for retention and should be retained and protected. Design
 modification or re-location of building/s should be considered to accommodate the setbacks as prescribed
 by Australian Standard, AS4970-2009 Protection of trees on development sites.

This tree retention assessment has been undertaken in accordance with the Institute of Australian Consulting Aboriculturalists (IACA) Significance of a Tree, Assessment Rating System (STARS). The system uses a scale of High, Medium, and Low significance in the landscape. Once the landscape significance of a tree has been defined, the retention value can be determined. Each tree must meet a minimum of three (3) assessment criteria to be classified within a category.

Tree Significance	- Assessment	Criteria
TIEE SIGNIFICATION	- 4336331116111	Cilicila

Tree Significance - Assessment Criteria									
Low Significance	Medium Significance	High Significance							
The tree is in fair-poor condition and good or low vigour. The tree has form atypical of the species The tree is not visible or is partly visible from the surrounding properties or obstructed by other vegetation or buildings The tree provides a minor contribution or has a negative impact on the visual character and amenity of the local area 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'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 is listed as exempt under the provisions of the local Council Tree Preservation Order or similar protection mechanisms The tree has a wound or defect that has the potential to become structurally unsound. Environmental Pest / Noxious Weed The tree is an environmental pest species due to its invasiveness or poisonous/allergenic properties. The tree is a declared noxious weed by legislation Hazardous / Irreversible Decline The tree is dead, or is in irreversible decline, or has the potential to fail or collapse in full or part in the immediate to short term.	The tree is in fair to good condition The tree has form typical or atypical of the species The tree is a planted locally indigenous or a common species with its taxa commonly planted in 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 provides a fair contribution to the visual character and amenity of the local area 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 is in good condition and good vigour The tree has a form typical for the species 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 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 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 supports social and cultural sentiments or spiritual associations, reflected by the broader population or community group, or has commemorative values. 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.							

Useful Life Expectancy - Assessment Criteria							
Remove	Short	Medium	Long				
Trees with a high level of risk that would need removing within the next 5 years. Dead trees.	Trees that appear to be retainable with an acceptable level of risk for 5-15 years.	Trees that appear to be retainable with an acceptable level of risk for 15-40 years.	Trees that appear to be retainable with an acceptable level of risk for more than 40 years.				
Trees that should be removed within the next 5 years.	Trees that may only live between 5 and 15 more years.	Trees that may only live between 15 and 40 more years.	Structurally sound trees located in positions that can accommodate future growth.				
Dying or suppressed or declining trees through disease or inhospitable conditions. Dangerous trees through	Trees that may live for more than 15 years but would be removed to allow the safe development of more suitable individuals.	Trees that may live for more than 40 years but would be removed to allow the safe development of more suitable individuals.	Storm damaged or defective trees that could be made suitable for retention in the long term by remedial tree surgery.				
instability or recent loss of adjacent trees. Dangerous trees through structural defects, including cavities, decay, included bark, wounds, or poor form.	Trees that may live for more than 15 years but would be removed during the course of normal management for safety or nuisance reasons.	Trees that may live for more than 40 years but would be removed during the course of normal management for safety or nuisance reasons.	Trees of special significance for historical, commemorative, or rarity reasons that would warrant extraordinary efforts to secure their long-term retention.				
Damaged trees that considered unsafe to retain. Trees that could live for more than 5 years but may be	Storm damaged or defective trees that require substantial remedial work to make safe and are only suitable for retention in the short term.	Storm damaged or defective trees that require substantial remedial work to make safe and are only suitable for retention in the short term.					
removed to prevent interference with more suitable individuals or to provide space for new planting. Trees that will become							
dangerous after removal of other trees for the reasons.							

Tree Significance High Significance Significance Low Significance Significance Environmental Pest / Noxious Weed Decline Hazardous / Irreversible Decline

Priority for retention (High): These trees are considered important for retention and should be retained and protected. Design modification or re-location of building/s 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): These trees may be retained and protected. These are considered less critical; however, their retention should remain priority with the removal considered only if adversely affecting the proposed building/works, and all other alternatives have been considered and exhausted. Consider for removal (Low): These trees are not considered important for retention, nor require special works or design modification to be implemented for their retention.

Reference

Jseful Life Expectancy

Long >40 years

Medium 15-40 years

Short <1-15 years

Dead

IACA, 2010, IACA Significance of a Tree, Assessment Rating System (STARS) Institute of Australian Consulting Arboriculturists Australia, www.iaca.org.au

