



Lot 2 Clarkes Lane Wangaratta Preliminary Arboricultural Report

# Prepared for:

Bislake Pty Ltd c/- Robert Luxmoore Emanuele Raffaele Robert Luxmoore Project Management eraffaele@luxmoore.com.au 0411 116 347

# Prepared by:

Rhys Oldmeadow Oldmeadow Arboriculture <u>rhys@oldarb.com.au</u> 0412 199 628

# Report code:

2047 clar1221\_PAR

# Site assessment:

13 January 2022

# Report date:

31 May 2023

| Stage | Title                | Туре                              | Date            | Version | Author         |
|-------|----------------------|-----------------------------------|-----------------|---------|----------------|
|       | 2047 clar1221_PAR    | Preliminary Arboricultural Report | 21 January 2022 | 1       | Rhys Oldmeadow |
|       | 2047 clar1221_PAR_V2 | Preliminary Arboricultural Report | 27 January 2022 | 2       | Rhys Oldmeadow |
| >     | 2047 clar1221_PAR_V3 | Preliminary Arboricultural Report | 31 May 2022     | 3       | Rhys Oldmeadow |



# **Table of Contents**

| Tab | le of                                      | Contents                             | 2    |  |  |  |  |  |
|-----|--|--------------------------------------|------|--|--|--|--|--|
| 1.  | Intro                                      | oduction                             | 3    |  |  |  |  |  |
| 1.  | .1   | Purpose                              | 3    |  |  |  |  |  |
| 1.  | 1.2 Scope                                  |                                      |      |  |  |  |  |  |
| 1.  | 1.3 Method                                 |                                      |      |  |  |  |  |  |
| 1.  | 4  | Limitations                          | 3    |  |  |  |  |  |
| 2.  | Obs  | ervations                            | 5    |  |  |  |  |  |
| 2.  | .1   | Site summary                         | 5    |  |  |  |  |  |
| 2.  | 2.2 Tree data                              |                                      |      |  |  |  |  |  |
| 2.  | .3   | Site maps                            | .10  |  |  |  |  |  |
| 3.  | Disc                                       | ussion                               | 14   |  |  |  |  |  |
| 4.  | Con  | clusion                              | 14   |  |  |  |  |  |
| 5.  | Reco                                       | ommendations                         | .14  |  |  |  |  |  |
| 6.  | References1                                |                                      |      |  |  |  |  |  |
| 7.  | Appendix 1: Arboricultural descriptors16   |                                      |      |  |  |  |  |  |
| 8.  | Appendix 2. Protection of retained trees21 |                                      |      |  |  |  |  |  |
| 9.  | Arbo                                       | oricultural consultancy: Assumptions | . 26 |  |  |  |  |  |



#### 1. Introduction

### 1.1 Purpose

Oldmeadow Arboriculture has been engaged to undertake a preliminary arboricultural assessment of trees on, or adjacent to, proposed works at Lot 2 Clarkes Lane, Wangaratta.

The proposed works involve the subdivision of the land into housing lots including all associated infrastructure, as well as the installation of a water treatment plant and storage facility.

#### Background

This version 3 report has been updated to consider possible impacts from updated subdivision plans, including some preliminary intersection design in the north east corner.

## 1.2 Scope

- Visually assess any trees (the subject trees) that are located within, or immediately adjacent to, Lot
   2 Clarkes Lane, Wangaratta, and collect the following data:
  - Tree species (comment on whether indigenous)
  - Tree location (~5m accuracy relying on combination of GPS and aerial imagery)
  - Height and canopy spread (widest point)
  - o Condition (health/structure)
  - Age/maturity
  - o DBH (at 1.4m above ground)
  - o Defects
  - Arboricultural value (amenity value)
  - Useful life expectancy
  - o Tag trees (trees will be tagged with an aluminium tag)
- Provide recommendations regarding the ongoing management of the subject trees.
- Provide a plan showing the location of all trees individually assessed with detail on:
  - Tree number (corresponding to aluminium tag)
  - Arboricultural value
  - Tree protection zones will be mapped

#### 1.3 Method

- A site visit was undertaken by Rhys Oldmeadow on 13 January 2022.
- Data was collected using a Panasonic Toughpad and the application QGIS Roam. Spatial data was collected by aligning data points with aerial imagery from VicMaps, in the projection GDA94 / MGA Zone 55.
- All observations were taken at ground level, using stage 1 of the Visual Tree Assessment (VTA) method (Mattheck and Breloer 1994).
- Where appropriate, trees were collected as a group (tree dimensions were estimated as an average). This occurred when trees of similar species were growing in close proximity e.g., shelter belts, groups of remnant vegetation or groups of planted vegetation. Trees of high or very high arboricultural value were individually identified even if they were part of a group (with the exception of the areas marked in the fee proposal as native vegetation stands, or planted vegetation stands).

# Documents viewed for the preparation of this report

 Concept development plan 1. Project number – M6801. No Date. Version – 13. Created by – North East Survey Design.

#### 1.4 Limitations

 The assessment was undertaken from ground and did not involve excavation; root condition was not investigated unless above ground signs were observed such as surface roots or cracking/heaving of the soil



- No instruments were used to record internal tree structure
- No aerial examination (climbing) was undertaken of the upper canopy
- Only noteworthy trees that might be significantly impacted by the proposed works (regardless of property boundaries) are included in this report. Some smaller trees (<25cm DBH) were not individually assessed if it was deemed that their loss would be calculated as patch vegetation by vegetation assessors.
- A full risk assessment was not undertaken, however, tree features identified as significantly increasing the likelihood of failure or requiring arboricultural action to mitigate are detailed within the report (including those trees within areas proposed to be grouped but may have the potential to impact within the subject site).



# 2. Observations

# 2.1 Site summary

The subject site is bounded to the west by One Mile Creek, to the south by Clarkes Lane, and to the east by both the Wangaratta Whitfield Road and Laceby-Targoora Road. The north of the subject site is bounded by Cathedral College, Targoora Park and Wenham's Lane Reserve.

Existing vegetation within the proposed development area is primarily comprised of open farmland with a few scattered remnant trees. There are significant pockets of vegetation in the south-eastern corner (Corner of Laceby-Targoora Road and Clarkes Lane) as well as along One Mile Creek and in Wenham's Lane Reserve. The dense vegetation to the south and south-east of Wenham's Lane Reserve is primarily comprised of planted eucalypt species.



Plate 1: Typical panorama of the subject site – open farmland with a few scattered remnant trees.



Plate 2 Planted vegetation to the south-east of Wenham's Lane Reserve, with a few scattered remnant trees.



Plate 3 Wenham's Lane Reserve



# 2.2 Tree data Trees

| ID | Species                     | Common Name     | Age              | Origin              | DBH<br>(cm)       | Height<br>(m) | Width<br>(m) | Health          | Structure       | Arb<br>Rating | ULE<br>(yrs) | Comments   | Recommendations  | TPZ (m<br>radius) |
|----|-----------------------------|-----------------|------------------|---------------------|-------------------|---------------|--------------|-----------------|-----------------|---------------|--------------|--|--|-------------------|
| 1  | Robinia<br>pseudoacacia     | Locust          | Maturing         | Exotic<br>deciduous | 113               | 7             | 8            | Fair to<br>Poor | Fair to<br>Poor | Mod.B         | 15-40 y      | Deadwood in the crown  | Proposed for removal.  | 13.6              |
| 2  | Robinia<br>pseudoacacia     | Locust          | Maturing         | Exotic<br>deciduous | 88                | 10            | 8            | Fair to<br>Poor | Fair to<br>Poor | Mod.C         | 5-15 y       | Significant deadwood and dieback in the crown.   | Proposed for removal.  | 10.6              |
| 3  | Schinus areira              | Peppercorn Tree | Over-<br>mature  | Exotic evergreen    | 178               | 10            | 15           | Fair            | Poor            | Mod.C         | 5-15 y       | Significant trunk decay and hollows.   | Proposed for removal.  | 15                |
| 4  | Ulmus<br>procera            | English Elm     | Maturing         | Exotic<br>deciduous | 84                | 13            | 11           | Fair            | Fair            | Mod.B         | 15-40 y      | Significant stem failure and trunk hollow.   | Proposed for removal.  | 10.1              |
| 5  | Ulmus<br>procera            | English Elm     | Maturing         | Exotic<br>deciduous | 90                | 11            | 11           | Fair            | Fair to<br>Poor | Mod.B         | 5-15 y       | Significant stem failures and trunk hollows.   | Proposed for removal.  | 10.8              |
| 6  | Robinia<br>pseudoacacia     | Locust          | Maturing         | Exotic deciduous    | 20, 30,<br>30, 30 | 8             | 7            | Fair            | Fair            | Mod.B         | 15-40 y      | Multi stemmed weed species.  | Proposed to be retained.   | 6.7               |
| 7  | Robinia<br>pseudoacacia     | Locust          | Maturing         | Exotic<br>deciduous | 90                | 7             | 8            | Fair            | Fair            | Mod.B         | 15-40 y      | Multi stemmed weed species.  | Proposed to be retained.   | 10.8              |
| 8  | Ficus carica                | Common Fig      | Maturing         | Exotic<br>deciduous | 30, 20            | 4             | 5            | Fair to<br>Poor | Fair to<br>Poor | Low           | 5-15 y       | Significant deadwood. Depression surrounding tree from cattle.   | Proposed to be retained.   | 4.3               |
| 9  | Pyrus sp.                   | Pear            | Maturing         | Exotic deciduous    | 35                | 2             | 5            | Poor            | Very<br>Poor    | Very<br>Low   | 1-5 y        | Trunk failure.   | Proposed for removal.  | 4.2               |
| 10 | Eucalyptus sp.              | Gum Tree        | Early-<br>mature | Remnant             | 35                | 8             | 6            | Dead            | Fair to<br>Poor | Very<br>Low   | 1-5 y        | Dead tree, TPZ irrelevant. Growing in road verge.  | May be possible to retain within road reserve. Minimise impacts to TPZ.          | 4.2               |
| 11 | Eucalyptus<br>camaldulensis | River Red Gum   | Maturing         | Remnant             | 163               | 17            | 17           | Fair            | Fair to<br>Poor | High          | 15-40 y      | Located just inside property boundary. Heavily leaning trunk, toward Clarkes Ln, with significant basal decay. Codominant stems, epicormic growth and mistletoe. Located with proposed road upgrade footprint. | May be possible to<br>retain within road<br>reserve. Minimise<br>impacts to TPZ. | 15                |
| 12 | Eucalyptus<br>microcarpa    | Grey Box        | Maturing         | Remnant             | 90                | 11            | 5            | Fair            | Fair to<br>Poor | Mod.C         | 15-40 y      | Main leader snapped out. Significant trunk hollow at 4 metres.   | Retain within reserve.   | 10.8              |
| 13 | Eucalyptus<br>microcarpa    | Grey Box        | Maturing         | Remnant             | 96                | 23            | 15           | Fair            | Fair            | High          | >40 y        | Past limb failure.   | Retain within reserve.   | 11.5              |
| 14 | Eucalyptus<br>microcarpa    | Grey Box        | Maturing         | Remnant             | 104               | 23            | 14           | Fair            | Fair            | High          | >40 y        | Crowded stem, leaning east.  | Retain within reserve.   | 12.5              |



| ID | Species                     | Common Name   | Age              | Origin               | DBH<br>(cm)   | Height<br>(m) | Width<br>(m) | Health          | Structure       | Arb<br>Rating | ULE<br>(yrs) | Comments  | Recommendations  | TPZ (m<br>radius) |
|----|-----------------------------|---------------|------------------|----------------------|---------------|---------------|--------------|-----------------|-----------------|---------------|--------------|---|--|-------------------|
| 15 | Eucalyptus<br>microcarpa    | Grey Box      | Maturing         | Remnant              | 120,<br>110   | 21            | 30           | Fair            | Fair to<br>Poor | Mod.A         | 15-40 y      | Two significant stems leaning heavily away from each other.   | If retained do not install<br>infrastructure within<br>falling distance. Retain<br>within reserve. | 15                |
| 16 | Eucalyptus<br>camaldulensis | River Red Gum | Maturing         | Remnant              | 70, 116       | 23            | 28           | Fair            | Fair            | High          | 15-40 y      | Red gum and grey box possibly grafted at base.  | Retain within reserve.   | 15                |
| 17 | Eucalyptus<br>microcarpa    | Grey Box      | Early-<br>mature | Remnant              | 50            | 15            | 9            | Fair            | Fair            | Mod.B         | >40 y        | DBH estimated. Stump regrowth with 4 live stems growing within road verge.  | May be possible to retain within road reserve. Minimise impacts to TPZ.                            | 6                 |
| 18 | Eucalyptus<br>camaldulensis | River Red Gum | Maturing         | Remnant              | 110           | 15            | 13           | Fair            | Fair            | Mod.A         | >40 y        | Located just inside site boundary.  | May be possible to retain within road reserve. Minimise impacts to TPZ.                            | 13.2              |
| 19 | Eucalyptus<br>microcarpa    | Grey Box      | Maturing         | Remnant              | 68            | 20            | 10           | Fair            | Fair            | Mod.A         | >40 y        | Growing within road reserve. Codominant stems from 4 metres.  | May be possible to retain within road reserve. Minimise impacts to TPZ.                            | 8.2               |
| 20 | Eucalyptus<br>camaldulensis | River Red Gum | Maturing         | Remnant              | 155           | 22            | 28           | Fair to<br>Poor | Fair            | High          | >40 y        | Stem dieback, significant deadwood. Sparse canopy. May be impacted by footpath.   | Retain within reserve. Minimise impacts from footpath construction.                                | 15                |
| 21 | Eucalyptus<br>microcarpa    | Grey Box      | Early-<br>mature | Remnant              | 30            | 8             | 5            | Dead            | Fair to<br>Poor | Very<br>Low   | 1-5 y        | Main stem deceased. Single basal sucker alive.  | Proposed for removal.  | 3.6               |
| 22 | Eucalyptus<br>camaldulensis | River Red Gum | Maturing         | Remnant              | 60            | 10            | 12           | Fair            | Fair            | Mod.B         | >40 y        | Multiple stems from ground. Dead stem adjacent.   | Proposed for removal.  | 7.2               |
| 23 | Eucalyptus<br>cladocalyx    | Sugar Gum     | Maturing         | Australian<br>native | 147           | 22            | 20           | Good            | Fair            | Mod.A         | >40 y        | Past limb failure and trunk wounds. Likely to be significantly impacted by residential lot development and bulk earthworks. | Proposed to be retained.   | 15                |
| 24 | Eucalyptus<br>camaldulensis | River Red Gum | Early-<br>mature | Remnant              | 100           | 17            | 17           | Fair            | Fair            | Mod.B         | >40 y        | Multi stemmed from 1.5 metres. Likely to be significantly impacted by residential lot development and bulk earthworks.      | Proposed to be retained.   | 12                |
| 25 | Eucalyptus<br>microcarpa    | Grey Box      | Early-<br>mature | Indigenous           | 30            | 10            | 10           | Fair            | Fair            | Mod.C         | >40 y        | Likely to be significantly impacted by residential lot development and bulk earthworks.                                     | Proposed to be retained.   | 3.6               |
| 26 | Eucalyptus<br>camaldulensis | River Red Gum | Semi-<br>mature  | Remnant              | 20, 25,<br>30 | 10            | 9            | Fair            | Fair            | Mod.B         | >40 y        | Multi stemmed from base. Likely to be significantly impacted by residential lot development and bulk earthworks.            | Proposed to be retained.   | 5.3               |
| 27 | Eucalyptus<br>camaldulensis | River Red Gum | Semi-<br>mature  | Remnant              | 25            | 7             | 4            | Fair            | Fair            | Low           | >40 y        | Likely to be significantly impacted by residential lot development and bulk earthworks.                                     | Proposed to be retained.   | 3                 |
| 28 | Eucalyptus camaldulensis    | River Red Gum | Maturing         | Remnant              | 112           | 17            | 19           | Fair            | Fair            | High          | >40 y        | Likely to be significantly impacted by residential lot development and bulk earthworks.                                     | Proposed to be retained.   | 13.4              |



| ID | Species                     | Common Name                       | Age              | Origin                  | DBH<br>(cm)   | Height<br>(m) | Width<br>(m) | Health          | Structure       | Arb<br>Rating | ULE<br>(yrs) | Comments  | Recommendations          | TPZ (m<br>radius) |
|----|-----------------------------|-----------------------------------|------------------|-------------------------|---------------|---------------|--------------|-----------------|-----------------|---------------|--------------|---|--------------------------|-------------------|
| 29 | Eucalyptus<br>camaldulensis | River Red Gum                     | Semi-<br>mature  | Remnant                 | 22            | 7             | 3            | Fair            | Fair            | Low           | >40 y        | Suppressed beneath larger canopy. Likely to be significantly impacted by residential lot development and bulk earthworks. | Proposed to be retained. | 2.6               |
| 30 | Eucalyptus<br>camaldulensis | River Red Gum                     | Early-<br>mature | Victorian<br>native     | 35, 43        | 14            | 12           | Fair            | Fair            | Mod.B         | >40 y        | Codominant stems from base. Likely to be significantly impacted by residential lot development and bulk earthworks.       | Proposed to be retained. | 6.7               |
| 31 | Angophora<br>floribunda     | Rough-barked Apple                | Young            | Victorian<br>native     | 15            | 6             | 2            | Fair            | Fair            | Low           | >40 y        | Likely to be significantly impacted by residential lot development and bulk earthworks.                                   | Proposed to be retained. | 2                 |
| 32 | Eucalyptus<br>camaldulensis | River Red Gum                     | Early-<br>mature | Remnant                 | 25, 30,<br>40 | 12            | 10           | Fair            | Fair            | Mod.B         | >40 y        | 3 stems from base. Likely to be significantly impacted by residential lot development and bulk earthworks.                | Proposed to be retained. | 6.7               |
| 33 | Angophora<br>floribunda     | Rough-barked Apple                | Maturing         | Victorian<br>native     | 63            | 16            | 14           | Good            | Fair            | Mod.A         | >40 y        | Excellent specimen tree. Likely to be significantly impacted by residential lot development and bulk earthworks.          | Proposed to be retained. | 7.6               |
| 34 | Eucalyptus<br>melliodora    | Yellow Box                        | Maturing         | Indigenous<br>(planted) | 40, 45,<br>50 | 16            | 10           | Fair            | Fair            | Mod.B         | >40 y        | 3 stems from 0.5 metres, eastern stem in decline.   | Proposed to be retained. | 9.4               |
| 35 | Eucalyptus<br>microcarpa    | Grey Box                          | Maturing         | Remnant                 | 119           | 29            | 20           | Fair            | Fair            | High          | >40 y        | All proposed works are outside of TPZ.  | Proposed to be retained. | 14.3              |
| 36 | Eucalyptus<br>camaldulensis | River Red Gum                     | Early-<br>mature | Remnant                 | 42            | 13            | 8            | Fair            | Fair            | Mod.B         | >40 y        | All proposed works are outside of TPZ.  | Proposed to be retained. | 5                 |
| 37 | Eucalyptus<br>camaldulensis | River Red Gum                     | Maturing         | Remnant                 | 50, 45        | 18            | 13           | Fair            | Fair            | Mod.B         | >40 y        | Past branch failure. All proposed works are outside of TPZ.   | Proposed to be retained. | 8.1               |
| 38 | Eucalyptus<br>microcarpa    | Grey Box                          | Maturing         | Remnant                 | 80            | 14            | 6            | Fair to<br>Poor | Poor            | Mod.C         | 5-15 y       | Main trunk snapped out. Epicormic crown. All proposed works are outside of TPZ.   | Proposed to be retained. | 9.6               |
| 39 | Eucalyptus sp.              | Gum Tree                          | Maturing         | Remnant                 | 80            | 21            | 15           | Dead            | Fair to<br>Poor | Mod.C         | 5-15 y       | Large dead tree with habitat hollows. TPZ irrelevant. All proposed works are outside of TPZ.                              | Proposed to be retained. | 9.6               |
| 40 | Eucalyptus<br>microcarpa    | Grey Box                          | Maturing         | Remnant                 | 105           | 22            | 20           | Fair            | Fair            | High          | >40 y        | Leaning tree. All proposed works are outside of TPZ.  | Proposed to be retained. | 12.6              |
| 41 | Eucalyptus<br>camaldulensis | River Red Gum                     | Early-<br>mature | Remnant                 | 100           | 16            | 17           | Fair            | Fair to<br>Poor | Mod.B         | >40 y        | Fire damage to trunk. All proposed works are outside of TPZ.  | Proposed to be retained. | 12                |
| 42 | Eucalyptus<br>microcarpa    | Grey Box                          | Maturing         | Remnant                 | 144           | 31            | 0            | Fair            | Fair            | High          | >40 y        | Codominant stems from 1.5 metres. All proposed works are outside of TPZ.  | Proposed to be retained. | 15                |
| 43 | Eucalyptus<br>microcarpa    | Grey Box                          | Maturing         | Remnant                 | 85            | 15            | 0            | Fair to<br>Poor | Poor            | Mod.C         | 5-15 y       | Dead central stem with two epicormic basal shoots. All proposed works are outside of TPZ.                                 | Proposed to be retained. | 10.2              |
| 44 | Eucalyptus<br>microcarpa    | Grey Box                          | Maturing         | Remnant                 | 100           | 28            | 16           | Fair to<br>Poor | Fair            | Mod.A         | >40 y        | Significant deadwood throughout. Beehive in central stem. All proposed works are outside of TPZ.                          | Proposed to be retained. | 12                |
| 45 | Eucalyptus<br>nicholii      | Narrow-leaved Black<br>Peppermint | Maturing         | Australian<br>native    | 60            | 13            | 13           | Fair            | Fair            | Mod.B         | >40 y        | All proposed works are outside of TPZ.  | Proposed to be retained. | 7.2               |



# Groups

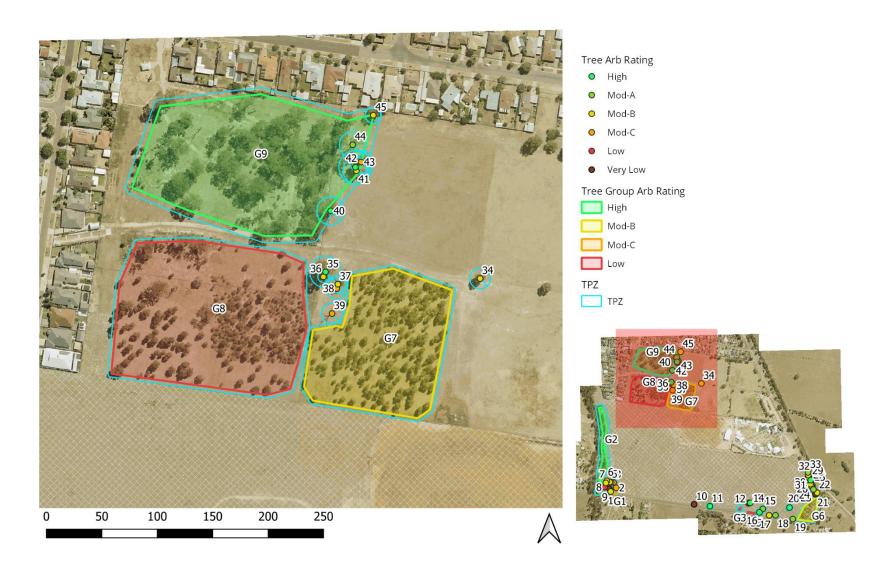
| ID | Species   | Common<br>Name                | Age              | Origin                 | No.<br>Stems | DBH<br>(av_cm) | Height<br>(m) | Width<br>(m) | Health          | Structure    | Arb<br>Rating | ULE<br>(yrs) | Comments   | Recommendations  | TPZ (m<br>radius) |
|----|---|-------------------------------|------------------|------------------------|--------------|----------------|---------------|--------------|-----------------|--------------|---------------|--------------|--|--|-------------------|
| G1 | Robinia pseudoacacia                                  | Locust                        | Early-<br>mature | Exotic<br>deciduous    | 40           | 20             | 6             | 3            | Fair to<br>Poor | Fair to Poor | Mod.C         | 5-15 y       | Woody weed species growing in the road verge.  | Proposed for removal.  | 2.4               |
| G2 | Eucalyptus<br>camaldulensis                           | River Red<br>Gum              | Maturing         | Remnant                | 38           | 120            | 20            | 18           | Fair            | Fair         | High          | >40 y        | Very significant river red<br>gums growing along<br>riverbank.                                 | Ensure no work encroaches within 15m of this stand.                                  | 14.4              |
| G3 | Eucalyptus sp.  | Gum Tree                      | Maturing         | Remnant                | 3            | 110            | 18            | 16           | Dead            | Fair to Poor | Low           | 5-15 y       | Stand of three dead stems with habitat hollows.  | Proposed for removal.  | 13.2              |
| G4 | Eucalyptus microcarpa                                 | Grey Box                      | Early-<br>mature | Remnant                | 12           | 25             | 8             | 4            | Dead            | Fair to Poor | Low           | 1-5 y        | Group of dead trees with two young live stems coming up. Growing within road verge.            | Proposed for removal.  | 3                 |
| G5 | Eucalyptus microcarpa                                 | Grey Box                      | Maturing         | Remnant                | 3            | 30             | 14            | 5            | Good            | Fair         | Mod.B         | >40 y        | 3 grey box growing within road verge.  | May be possible to retain within road reserve. Minimise impacts to TPZ.              | 3.6               |
| G6 | Eucalyptus<br>camaldulensis;<br>Eucalyptus microcarpa | River Red<br>Gum; Grey<br>Box | Maturing         | Remnant                | 50           | 45             | 18            | 10           | Fair            | Fair         | Mod.B         | >40 y        | Large triangular group of mixed species, red gum and grey box.                                 | Proposed to be retained. Likely to be significantly impacts by intersection upgrade. | 5.4               |
| G7 | Eucalyptus melliodora;<br>Eucalyptus microcarpa       | Yellow Box;<br>Grey Box       | Semi-<br>mature  | Indigenous             | 300          | 25             | 13            | 4            | Fair            | Fair         | Mod.B         | >40 y        | Large plantation, mixed species in rows.   | Proposed to be retained. All proposed works are outside of TPZ.                      | 3                 |
| G8 | Eucalyptus melliodora;<br>Eucalyptus microcarpa       | Yellow Box;<br>Grey Box       | Semi-<br>mature  | Remnant;<br>Indigenous | 250          | 25             | 13            | 4            | Fair            | Fair         | Low           | >40 y        | Large, planted block of mixed species with a few remnant trees over on the north-western edge. | Proposed to be retained. All proposed works are outside of TPZ.                      | 3                 |
| G9 | Eucalyptus<br>camaldulensis;<br>Eucalyptus microcarpa | River Red<br>Gum; Grey<br>Box | Maturing         | Remnant;<br>Indigenous | 50           | 50             | 18            | 16           | Fair            | Fair         | High          | >40 y        | Block of approximately 50 large remnant trees. Understory of planted and regenerating trees.   | Ensure no work<br>encroaches within 15m of<br>this stand of trees.                   | 6                 |

- DBH: Diameter at breast height (estimated average for groups)
- ULE: Useful life expectancy
- TPZ: Tree protection zone
- No. Stems: Number of stems estimated in the group.
- Indigenous: a native tree indigenous to the area (could be planted)
- Remnant: an indigenous tree that has not been planted
- Victorian native: Native to Victoria, but not indigenous to the area.



# 2.3 Site maps

Lot 2, Clarkes Lane, Wangaratta Map 1 of 4



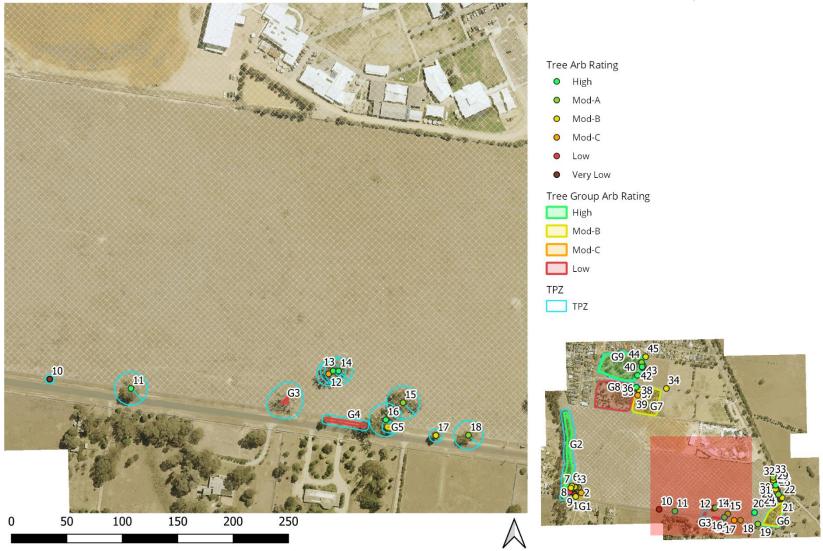


Lot 2, Clarkes Lane, Wangaratta Map 2 of 4



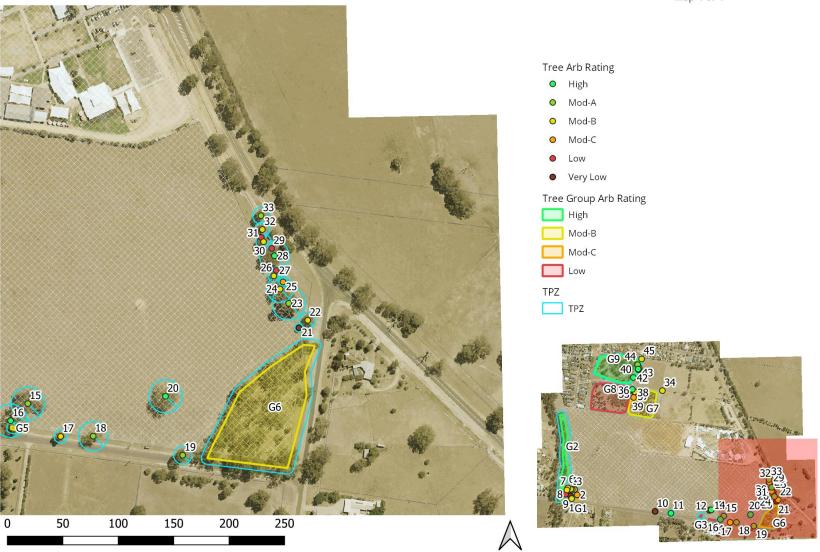


Lot 2, Clarkes Lane, Wangaratta Map 3 of 4





Lot 2, Clarkes Lane, Wangaratta Map 4 of 4





#### 3. Discussion

## Preliminary design

Other than large groups of planted vegetation, the tree population on site most likely to be impacted by the proposed development is remnant vegetation.

Modifying or manipulating the design to minimise the loss of significant trees will not only benefit the long-term amenity value of the site but has the potential to streamline the planning permit process.

- Works activities are considered as (but are not limited to):
- Demolition works
- Site cut and fill
- Parking and movement of construction vehicles
- Storage of construction materials
- Installation of driveways and pathways
- Trenching for underground services.

Careful consideration of all activities will help minimise impacts to the trees and may save time and money throughout the development process.

### 4. Conclusion

The assessment comprised a total of 45 individual trees as well as 9 tree groups, although several of the tree groups were quite large, numbering in the 10s to 100s of trees.

Of the 45 individually trees assessed, 29 were assessed as remnant and therefore protected by the Victorian Planning Provisions, Clause 52.17, Native Vegetation.

Tree groups G2, G6 and G9 were comprised of significant remnant vegetation, although there were a few scattered remnant trees in G8, as well as a some of the smaller groups.

The indicative concept plan largely avoids significant remnant vegetation groups, but does impact on some scattered remnant vegetation. \* denotes remnant vegetation.

- Trees/groups proposed for removal includes 1-5, 9, and 21-22\*, G1 and G3-4\*.
- Trees proposed to retained, but likely to be impacted by proposed works include 10-11\*, 17-19\*, 23, 24-29\*, 30-31, 32\*, 33-34, and G5-6\*.

\_

The redesign of the wastewater treatment plan now avoids impacts to trees 35-44\*, 45 as well as groups 7-9\* (mostly planted). All proposed works remained outside of G2 TPZs.

Underground services are not shown on plans and impacts to trees may increase if underground services are located within tree protection zones.

#### 5. Recommendations

#### General recommendations

- Ensure all works avoid impacting the TPZs of as many trees as is practicable.
- Include scaled Tree Protection Zones (TPZ) on proposed plans for all assessed trees (see tree data)
- If encroachments within TPZs are unavoidable, ensure less than 10% of the total area is impacted. The area lost should be compensated for elsewhere and contiguous with the TPZ
- All works should be shown on plans. Site cut and fill, location of buildings, driveways and pathways, all underground services, including storm water and sewerage
- Design of any underground services and landscaping should be cognisant of root protection. Do
  not excavate within the nominated Tree Protection Zones of retained trees including those trees
  on neighbouring properties unless permitted by the responsible authority.



# 6. References

Mattheck, C. and Breloer, H. (1994), The Body Language of Trees: A Handbook for Failure Analysis, London: HMSO.

Standards Australia (2007), AS 4373-2007 Pruning of amenity trees

Standards Australia (2009), AS 4970-2009 Protection of trees on development sites

Victorian Planning Provisions. Clause 52.17 Native Vegetation.



# 7. Appendix 1: Arboricultural descriptors

# Age

Relates to the physiological stage of the tree's life cycle.

| Category    | Description  |
|-------------|--|
| Juvenile    | A young tree, given normal environmental conditions for that tree it will not yet flower or fruit. |
| Semi-mature | Able to reproduce yet still to achieve expected size in situation                                  |
| Maturing    | Specimen approaching expected size in situation, with reduced incremental growth                   |
| Over-mature | Tree is senescent and in decline   |

# Arboricultural Rating/Amenity value

Arboricultural rating relates to a combination of tree condition factors, including health and structure (arboricultural merit), and also conveys an amenity value. Amenity relates to the trees biological, functional and aesthetic characteristics (Hitchmough 1994) within an urban landscape context. The presence of any serious disease or tree-related hazards that would impact risk potential are taken into account.

| Category | Description   |
|----------|---|
|          | Tree of high quality in good to fair condition. Generally a prominent                       |
| High     | arboricultural/landscape feature.   |
| півії    | These trees have the potential to be a medium – to long-term component of the               |
|          | landscape if managed appropriately. Retention of these trees is highly desirable.           |
|          | Tree of moderate quality, in fair or better condition. Tree may have a condition, and or    |
|          | structural problem that will respond with arboricultural treatment.                         |
|          | Often the majority of a mature tree population will fit into this category. It is therefore |
| Moderate | often further divided into classes A, B and C with A being the more desirable for           |
|          | retention.  |
|          | These trees have the potential to be a medium – to long-term component of the               |
|          | landscape if managed appropriately. Retention of these trees is generally desirable.        |
| Low      | Unremarkable tree of low quality or little amenity value. Tree in either poor health or     |
|          | with poor structure or a combination.   |
|          | Tree is not significant because of either its size or age, such as young trees with a stem  |
|          | diameter below 15cm. These trees are easily replaceable.                                    |
| LOW      | Tree (species) is functionally inappropriate to specific location and would be expected to  |
|          | be problematic if retained.   |
|          | Retention of such trees may be considered if not requiring a disproportionate               |
|          | expenditure of resources for a tree in its condition and location.                          |
|          | Trees of low quality with an estimated remaining life expectancy of less that 5 years.      |
|          | Tree has either a sever structural defect or health problem or combination that cannot      |
|          | be sustained with practical arboricultural techniques and the loss of the tree would be     |
|          | expected in the short term.   |
|          | Trees that are dead or are showing signs of significant, immediate, and irreversible        |
|          | overall decline. Tree infected with pathogens of significance to either the health or       |
| None     | safety of the tree or other adjacent trees.   |
|          | Trees whose retention would no be viable after the removal of adjacent trees (including     |
|          | trees that have developed in close spaced groups and would not be expected to               |
|          | acclimatise to severe alterations to surrounding environment – removal of adjacent          |
|          | shelter trees).   |
|          | Tree has a detrimental effect on the environment, for example, the tree is recognised       |
|          | environmental woody weed with potential to spread into waterways or natural areas.          |
|          | Unremarkable tree of no material landscape, conservation or other cultural value.           |



Trees have many values, not all of which are considered when an arboricultural assessment is undertaken. However, individual trees or tree group features may be considered important community resources because of unique or noteworthy characteristics or values other than their age, dimensions, health or structural condition. Recognition of one or more of the following criteria is designed to highlight other considerations that may influence the future management of such trees.

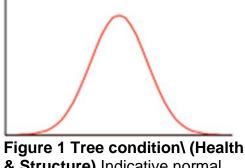
| Significant  | Description  |
|--|--|
| Horticultural<br>Value/Rarity                          | Outstanding horticultural or genetic value; could be an important for propagating stock, including specimens that are particularly resistance to disease or exposure. Any tree of a species or variety that is rare.   |
| Historic, Aboriginal<br>Cultural or<br>Heritage Value. | Tree could have value as a remnant of a particular important historical period or a remnant of a site or activity no longer in action. Tree has a recognised association with historic aboriginal activities, including scar trees.  Tree commemorates a particular occasion, including plantings by notable people, or having association with an important event in local history. |
| Ecological Value                                       | Tree could have value as habitat for indigenous wildlife, including providing breeding, foraging or roosting habitat, or is a component of a wildlife reserve.  Remnant indigenous vegetation that contributes to biological diversity.  |

#### Condition

The assessment of tree condition evaluates factors of health and structure. The descriptors of health and structure attributed to a tree evaluate the individual specimen to what could be considered typical for that species growing in its location. For example, some species can display inherently poor branching

architecture, such as multiple acute branch attachments with included bark. Whilst these structural defects may technically be considered arboriculturally poor, they are typical for the species and may not constitute an increased risk of failure. These trees may be assigned a structural rating of fair-poor (rather than poor) at the discretion of the author.

Diagram 1, provides an indicative distribution curve for tree condition to illustrate that within a normal tree population the majority of specimens are centrally located within the condition range (normal distribution curve). Furthermore, that those individual trees with an assessed condition approaching the outer ends of the spectrum occur less often.



& Structure) Indicative normal

# Diameter at Breast Height (DBH)

Indicates the trunk diameter (expressed in centimetres) of an individual tree measured at 1.4m above the existing ground level or where otherwise indicated, multiple leaders are measured individually. Plants with multiple leader habit may be measured at the base. The range of methods to suit particular trunk shapes, configurations and site conditions can be seen in Appendix A of Australian Standard AS 4970-2009 Protection of trees on development sites. Measurements undertaken with foresters Ø tape or builders tape.

Health Assesses various attributes to describe the overall health and vigour of the tree.

| Category | Vigour/Extension<br>growth | Decline<br>symptoms/Deadwood | Foliage density,<br>colour, size,<br>intactness | Pests and or disease              |
|----------|----------------------------|------------------------------|---|-----------------------------------|
| Good     | Above typical              | None or minimal              | Better than typical                             | None or minimal                   |
| Fair     | Typical                    | Typical or expected          | Typical   | Typical, within damage thresholds |



| Fair to<br>Poor | Below typical | More than typical               | Exhibiting deficiencies        | Exceeds damage thresholds           |
|-----------------|---------------|---------------------------------|--------------------------------|-------------------------------------|
| Poor            | Minimal       | Excessive and large amount/size | Exhibiting severe deficiencies | Extreme and contributing to decline |
| Dead            | N/A           | N/A                             | N/A                            | N/A                                 |

# Height and Width

Indicates height and width of the individual tree; dimensions are expressed in metres. Crown heights are measured with a laser height meter where possible. Due to the topography of some sites and/or the density of vegetation it may not be possible to do this for every tree. Tree heights may be estimated in line with previous height meter readings in conjunction with author's experience. Crown widths are generally paced (estimated) at the widest axis or can be measured on two axes and averaged. In some instances the crown width can be measured on the four cardinal direction points (North, South, East and West).

#### **Impact**

An assessment of adverse impact the proposed works are likely to have on a tree or tree group. May be short or long term; usually judged on the likely reduction in ULE directly attributable to the works. Impact usually relates to the level of TPZ encroachment, but also factors the type of impact. One or more factors may apply.

| Category          | Impact   |
|-------------------|--|
| Low:              | Proposed works are outside of the TPZ and impacts are likely to be nil. Or, minor damage may occur such as; smaller roots may be damaged or a small area of canopy pruned. Unlikely to significantly impact tree health, form, or ULE.   |
| Moderate:         | Direct (physical wounding), or indirect (environmental impacts) are possible, root damage may occur, canopy pruning likely, and an occurrence will reduce the ULE.   |
| High<br>(retain): | Tree must be considered lost when calculating offset costs. Tree is likely to be adversely impacted so that tree health, and therefore, ULE are significantly reduced. Tree is not likely to be destabilised by works and should be retained in situ and only removed or reduced to a habitat tree if it significantly declines in the future. |
| High<br>(remove): | Tree must be considered lost when calculating offset costs. Tree will become unstable and/or present an unacceptable level of risk or must be removed to facilitate proposed works.  |

#### Name

Provides botanical name, (genus, species, variety and cultivar) according to accepted international code of taxonomic classification, and common name.

# Structure

Assesses principal components of tree structure (Diagram 2).

| Descriptor | Zone 1 - Root plate<br>& lower stem  | Zone 2 - Trunk                                  | Zone 3 - Primary<br>branch support              | Zone 4 - Outer<br>crown and roots                    |
|------------|--|---|---|--|
| Good       | No damage, disease<br>or decay; obvious<br>basal flare / stable<br>in ground | No damage, disease<br>or decay; well<br>tapered | Well formed,<br>attached, spaced and<br>tapered | No damage, disease,<br>decay or structural<br>defect |



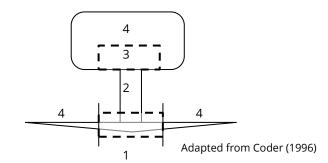
| Descriptor   | Zone 1 - Root plate<br>& lower stem   | Zone 2 - Trunk  | Zone 3 - Primary<br>branch support  | Zone 4 - Outer<br>crown and roots  |
|--------------|---|---|---|--|
| Fair         | Minor damage or decay. Basal flare present.   | Minor damage or decay   | Typically formed,<br>attached, spaced and<br>tapered  | Minor damage,<br>disease or decay;<br>minor branch end-<br>weight or over-<br>extension                                  |
| Fair to Poor | Moderate damage<br>or decay; minimal<br>basal flare   | Moderate damage or decay; approaching recognised thresholds   | Weak, decayed or<br>with acute branch<br>attachments;<br>previous branch<br>failure evidence                        | Moderate damage,<br>disease or decay;<br>moderate branch<br>end-weight or over-<br>extension                             |
| Poor         | Major damage,<br>disease or decay;<br>fungal fruiting<br>bodies present.<br>Excessive lean<br>placing pressure on<br>root plate | Major damage,<br>disease or decay;<br>exceeds recognised<br>thresholds; fungal<br>fruiting bodies<br>present. Acute lean.<br>Stump resprout | Decayed, cavities or has acute branch attachments with included bark; excessive compression flaring; failure likely | Major damage,<br>disease or decay;<br>fungal fruiting bodies<br>present; major<br>branch end-weight or<br>over-extension |
| Very Poor    | Excessive damage,<br>disease or decay;<br>unstable / loose in<br>ground; altered<br>exposure; failure<br>probable               | Excessive damage,<br>disease or decay;<br>cavities. Excessive<br>lean. Stump<br>resprout  | Decayed, cavities or<br>branch attachments<br>with active split;<br>failure imminent                                | Excessive damage,<br>disease or decay;<br>excessive branch<br>end-weight or over-<br>extension                           |

Structure ratings will also take into account general tree architecture which considers aspects of stem taper, live crown ratio, branch distribution or bias and crown position such as tree being suppressed amongst more dominant trees.

The lowest or worst descriptor assigned to the tree in any column could generally be the overall rating assigned to the tree. The assessment for structure is limited to observations of external and above ground tree parts. It does not include any exploratory assessment of underground or internal tree parts unless this is requested as part of the investigation. Trees are assessed and the given a rating for a point in time.

**Diagram 2:** Tree structure zones

- 1. Root plate & lower stem
- 2. Trunk
- 3. Primary branch support
- 4. Outer crown & roots



Generally, trees with a poor or very poor structure are beyond the benefit of practical arboricultural treatments.



The management of trees in the urban environment requires appropriate arboricultural input and consideration of risk. Risk potential will take into account the combination of likelihood of failure and impact, including the perceived importance of the target(s).

# Type

Describes the general geographic origin of the species and its type e.g. deciduous or evergreen.

| Category          | Description  |
|-------------------|--|
| Indigenous        | Occurs naturally in the area or region of the subject site   |
| Victorian native  | Occurs naturally within some part of the State of Victoria (not exclusively) but is not indigenous |
| Australian native | Occurs naturally within Australia but is not a Victorian native or indigenous                      |
| Exotic deciduous  | Occurs outside of Australia and typically sheds its leaves during winter                           |
| Exotic evergreen  | Occurs outside of Australia and typically holds its leaves all year round                          |
| Exotic conifer    | Occurs outside of Australia and is classified as a gymnosperm                                      |
| Native conifer    | Occurs naturally within Australia and is classified as a gymnosperm                                |
| Native Palm       | Occurs naturally within Australia. Woody monocotyledon   |
| Exotic Palm       | Occurs outside of Australia. Woody monocotyledon   |



# 8. Appendix 2. Protection of retained trees

Pruning standards / Lopping

An Australian standard exists to give guidance on pruning of trees.

It is important that all remedial works are carried out by a competent contractor in accordance with the Australian Standard. (AS. 4373 2007 - Pruning of Amenity Trees).

Lopping; as defined within the Standard, is detrimental to trees, often resulting in decay and poorly attached epicormic shoots. Natural Target Pruning methods should be used wherever possible when removing sections from trees.

**Establishment of Tree Protection Zones** 

The tree protection zone (TPZ) is the principal means of protecting trees on development sites. Usually fencing will be used to delineate the Tree Protection Zones (TPZ) as defined by AS 4970-2009 Protection of trees on development sites.

Fencing is installed following permitted vegetation removal and pruning but prior to construction site establishment. Fencing should be retained until completion of all construction related activity.

Some works and activities within the TPZ may be authorised by the Responsible Authority. These works should be supervised by the project arborist. Any additional encroachment that becomes necessary as the site works progress should be reviewed by the project arborist and be acceptable to the Responsible Authority before being carried out (AS 4970--2009).

Activities restricted within the TPZ

A TPZ area may surround a single tree or group or a patch of vegetation, activities that must NOT be carried out within a TPZ include, but are not limited to, the following:

- (a) machine excavation including trenching;
- (b) excavation for silt fencing;
- (c) cultivation;
- (d) storage;
- (e) preparation of chemicals, including preparation of cement products;
- (f) parking of vehicles and plant;
- (g) refuelling;
- (h) dumping of waste;
- (i) wash down and cleaning of equipment;
- (j) placement of fill;
- (k) lighting of fires;
- (l) soil level changes;
- (m) vehicle movement access ways;
- (n) changes of grade;



- (o) temporary or permanent installation of utilities and signs, and
- (p) damage to the tree.

#### Maintaining Tree Protection Zones (TPZ)

If at any time the TPZ must be infringed upon for works such as excavation for the installation of pipes or drainage or the movement of equipment or any other interference that may cause a change in the availability of water or oxygen to the tree, a suitably qualified arborist should be consulted to supervise the works and permission from the responsible authority may be required.

It may be possible to work or construct within a TPZ without significantly impacting a tree however the size and number of roots in the area would need to be determined and the specifics of the tree and its resilience to impacts would need to be reviewed prior to commencement. Design and construction methods may need alteration to minimise adverse tree impact.

### AS 4970-2009 (extract)

#### Variations to the TPZ

#### General

It may be possible to encroach into or make variations to the standard TPZ. Encroachment includes excavation, compacted fill and machine trenching.

#### Minor encroachment

If the proposed encroachment is less than 10% of the area of the TPZ and is outside the SRZ detailed root investigations should not be required. The area lost to this encroachment should be compensated for elsewhere and contiguous with the TPZ.

Variations must be made by the project arborist considering relevant factors listed in (see standard) ...

# Major encroachment

If the proposed encroachment is greater than 10% of the TPZ or inside the SRZ, 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. This may require root investigation by non-destructive methods and consideration of relevant factors listed in (see standard)

## Physical / mechanical damage to trees

Physical damage to tree parts, particularly the trunk, provides entry points for pests and diseases such as fungal infections. This may cause long-term decay and can lead to partial or complete tree failure and death.

#### Alteration of soil levels

Alteration of soil levels around trees will affect the root zone and stability of a tree as well as tree metabolism. This may result in reduced tree health, excessive deadwood, thinning foliage and poor vigour; it can take some years for the impact to become evident at which time it is normally irreversible.



#### Tree protection zone fencing

Protective fencing is used to delineate the TPZ. The fence must provide high visibility and act as a physical barrier to construction vehicles. No construction activity is to be undertaken within the fenced TPZ. The fence should be adequately signed, be sturdy and prevent the entry of heavy equipment, vehicles, workers and the public.

Once erected, protective fencing must not be removed or altered without approval by the project arborist or responsible authority. The TPZ should be secured to restrict access. Tree protection fencing will consist of chain wire mesh panels held in place with concrete feet. The tree protection zone shall be clearly signed "Tree Protection Zone – No Access".



Source – AS 4970-2009 Protection of trees on development sites

## Temporary access to the TPZ

When tree protection fencing cannot be installed or requires temporary removal, other tree protection measures should be used.

Where necessary, physical protection for the trunk and branches of trees should be installed. The materials and positioning of protection will be specified by the project arborist. A minimum height of 2m is recommended.

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 boards. These measures may also be applied to root zones beyond the TPZ (see image).

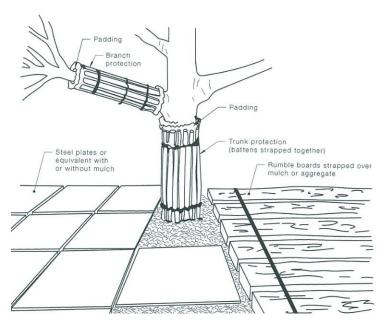
Root protection during works within the TPZ

Works that have been approved by the Responsible Authority to occur within the TPZ, such as re-grading, installation of piers or landscaping have the potential to damage roots.

If the grade is to be raised the material should be coarser or more porous than the underlying material.

Depth changes and compaction should be minimized. Manual excavation should be carried out under the supervision of the project arborist to identify roots critical to tree stability and health. Relocation or redesign of works may be required.

Where the project arborist identifies roots to be pruned within or at the outer edge of the TPZ, they should be pruned with a final cut to undamaged wood.



Source – AS 4970-2009 Protection of trees on development sites

Pruning cuts should be made with sharp tools such as secateurs, pruners, handsaws or chainsaws. Pruning wounds should not be treated with dressings or paints.

It is not acceptable for roots within the TPZ to be 'pruned' with machinery such as backhoes or excavators.

Where roots within the TPZ are exposed by excavation, temporary root protection should be installed to prevent them drying out. This may include jute mesh or hessian sheeting as multiple layers over exposed roots and excavated soil profile, extending to the full depth of the root zone. Root protection sheeting should be pegged in place and kept moist during the period that roots are exposed.

Other excavation works in proximity to trees, including landscape works such as paving, irrigation and planting can adversely affect root systems, seek advice from the project arborist.

If temporary access is required within a Tree Protection Zone this may be carried out using sheets of heavy plywood or like protection but should not be considered for long term requirements.



#### Installing underground services within TPZ

All services should be routed outside the TPZ. If underground services must be routed within the TPZ, they should be installed by directional drilling or in manually excavated trenches using non-destructive methods such as Air or hydro excavation.

The directional drilling bore should be at least 600 mm deep. The project arborist should assess the likely impacts of boring and bore pits on retained trees.

# Driveways and paving within TPZ's

Works should not encroach into a TPZ. If encroachment is unavoidable any hard surfaces such as paving or driveways should:

- 1. not require any scraping or excavation most roots, particularly small absorbing roots, are shallow; within the upper 100mm of soil.
- 2. be constructed of a permeable material and laid on a base and subbase specifically designed to allow the movement of water through and into the soil below.

If construction is permitted within a TPZ it should be suspended on piers leaving the ground undisturbed other than the careful placement of pier holes. The bottom of supporting beams should be above existing ground level or, if this is not possible beams should run radially away from the tree trunk. There should be NO excavation of any description, including piers, within a Structural Root Zone (SRZ)



# 9. Arboricultural consultancy: Assumptions

- Any legal description provided to Oldmeadow Arboriculture is assumed to be correct. Any titles and ownerships to any property are assumed to be correct. No responsibility is assumed for matters outside the consultant's control.
- Oldmeadow Arboriculture assumes that any property or project is not in violation of any applicable codes, ordinances, statutes or other local, state or federal government regulations.
- Oldmeadow Arboriculture has taken care to obtain all information from reliable sources. All data has been verified
  insofar as possible; however Oldmeadow Arboriculture can neither guarantee nor be responsible for the accuracy of
  the information provided by others not directly under Oldmeadow Arboriculture's control.
- No Oldmeadow Arboriculture employee shall be required to give testimony or to attend court by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services.
- Loss of this report or alteration of any part of this report not undertaken by Oldmeadow Arboriculture invalidates the entire report.
- Possession of this report or a copy thereof does not imply right of publication or use for any purpose by anyone but the client or their directed representatives, without the prior consent of Oldmeadow Arboriculture.
- This report and any values expressed herein represent the opinion of Oldmeadow Arboriculture's consultant and Oldmeadow Arboriculture's fee is in no way conditional upon the reporting of a specified value, a stipulated result, the occurrence of a subsequent event, nor upon any finding to be reported.
- Sketches, diagrams, graphs and photographs in this report, being intended as visual aids, are not necessarily to scale and should not be construed as engineering or architectural drawings, reports or surveys.
- Unless expressed otherwise: i) Information contained in this report covers only those items that were covered in the project brief or that were examined during the assessment and reflect the condition of those items at the time of inspection; and ii) The inspection is limited to visual examination of accessible components without dissection, excavation or probing unless otherwise stipulated.
- There is no warranty or guarantee, expressed or implied by Oldmeadow Arboriculture., that the problems or deficiencies of the plants or site in question may not arise in the future.
- All instructions (verbal or written) that define the scope of the report have been included in the report and all documents and other materials that the Oldmeadow Arboriculture consultant has been instructed to consider or to take into account in preparing this report have been included or listed within the report.
- To the writer's knowledge all facts, matter and all assumptions upon which the report proceeds have been stated within the body of the report and all opinion contained within the report have been fully researched and referenced and any such opinion not duly researched is based upon the writers experience and observations.

## **Precedent Disclaimer**

Disclaimer: Although Oldmeadow Arboriculture uses all due care and skill in providing you the information made available in this report, to the extent permitted by law Oldmeadow Arboriculture otherwise excludes all warranties of any kind, either expressed or implied.

To the extent permitted by law, you agree the Oldmeadow Arboriculture is not liable to you or any other person or entity for any loss or damage caused or alleged to have been caused (including loss or damage resulting from negligence), either directly or indirectly, by your use of the information (including by way of example, arboricultural advice) made available to you in this report. Without limiting this disclaimer, in no event will Oldmeadow Arboriculture be liable to you for any lost revenue or profits, or for special, indirect, consequential or incidental damage (however caused and regardless of the theory of liability) arising out of or related to your use of that information, even if Oldmeadow Arboriculture has been advised of the possibility of such loss or damage.

This disclaimer is governed by the law in force in the State of Victoria, Australia.