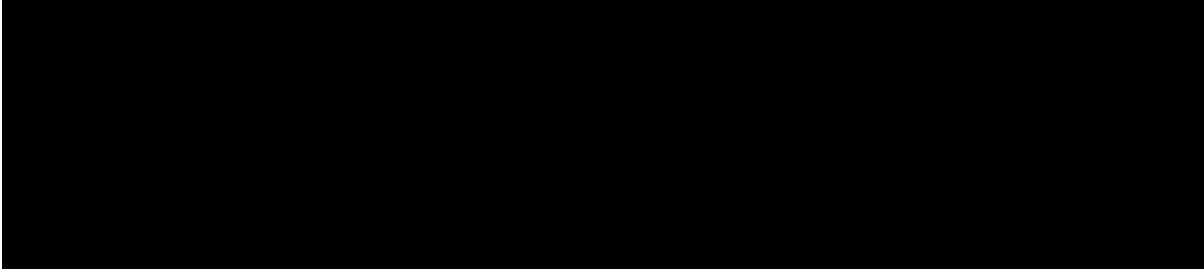




Arboricultural Report – RCB, Balcatta Road, Balcatta



Arboricultural Report – Recycling Centre Balcatta (RCB)



Scope

- To provide advice regarding the current health and condition of two designated trees (Trees 81 & 85) within the site area due to planned works within close proximity of the trees.
- The report includes tree species and dimensions and a brief description of the current health and condition of each tree and provides recommendation and advice regarding the suitability of the trees for retention with regard to the potential impact of the proposed works.
- This consultant confirms attending the site to inspect the trees on the 21st of October 2024.
- The trees concerned are located in the southwestern corner of the RCB facility (Figure 1).
- Two photos of each tree inspected have been included within the report (Figures 2 – 5).
- The trees inspected appeared to be the ones indicated within the works order, however further clarification at the time of inspection was not possible.

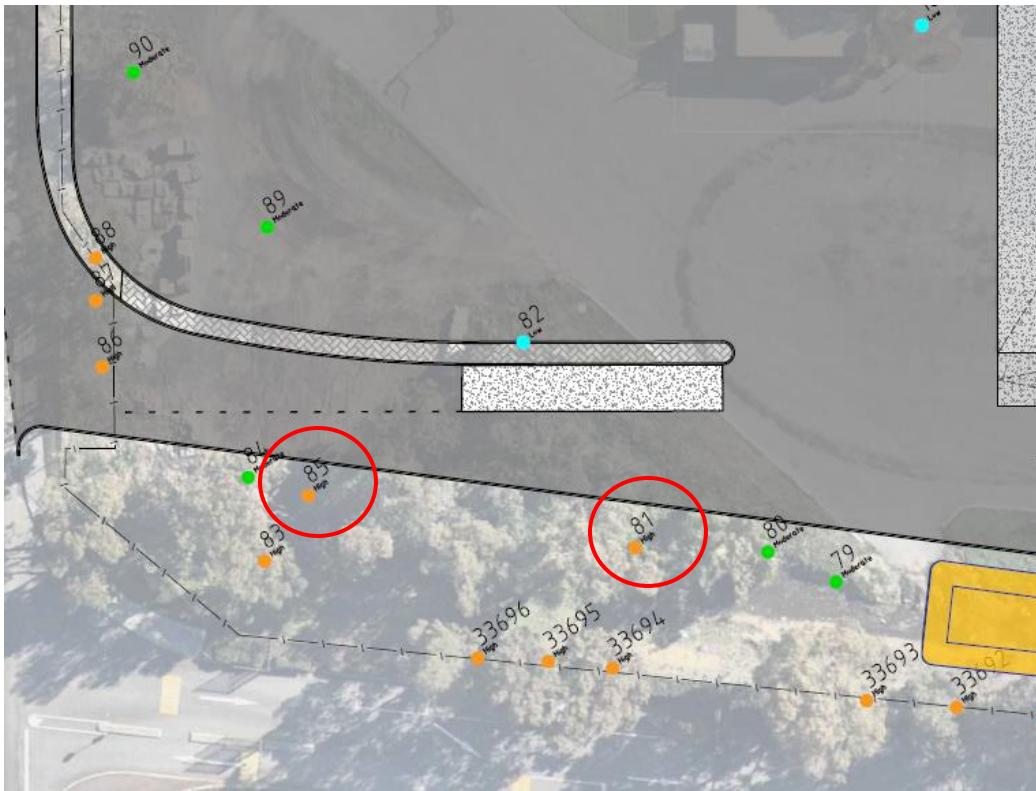


Figure 1 Indicating the location of the two trees inspected.

Tree Survey Data

Tree no	Species	Height (m)	Canopy Spread (m)	DBH (mm)	Health and structural condition	TPZ (m radius)	SRZ (m radius)	Comments/Recommendations
81	<i>Eucalyptus marginata</i> Jarrah	16	14	620	Good health and fair structural condition with a full canopy of healthy foliage supported by the northern stem while the southern stem is in decline. Fire damage at the base separates the two stems with the northern stem displaying prominent adaptive secondary growth. The southern stem supports a declining canopy and evidence of active termites. Both stems hold deadwood. There was no evidence of significant branch failure from this tree and the tree appears to remain root firm.	7.4	2.7	Endemic species of high retention value. Fire damage and some termite activity in trees of the species is commonly observed within urban areas. Species retains deadwood and while healthy is able to develop new wood in response to previous tissue loss. Termites may be restricted to the central pith, bark or sapwood.
85	<i>Eucalyptus marginata</i> Jarrah	9.2	10	520	Good health and fair structural condition with a full canopy of healthy foliage supported by both the northern and southern stems. Fire damage at the base was evident with a small cavity and some termite damage visible displaying prominent adaptive secondary growth. The southern stem supports a less vigorous canopy and there is some evidence of active termites. Both stems hold some deadwood. There was no evidence of significant branch failure from this tree and the tree appears to remain root firm.	6.2	2.5	Both trees display an asymmetric form with the northern stems leaning and lateral growth extending over the sealed area for heavy vehicle planned for construction close to the base of the trees.

Tree Photos (Figures 2 - 5)

Tree 81



Tree 85

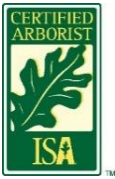
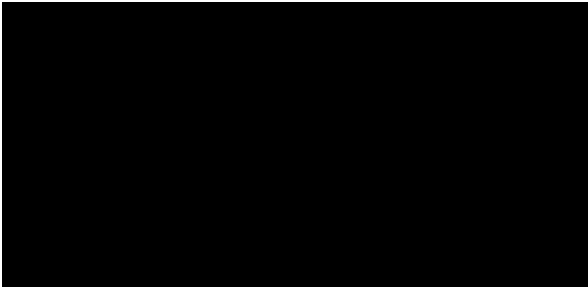


Summary/Conclusions

- **Trees 81 & 85** were found to be in fair health and predominantly sound structural condition despite evidence of trunk and basal wounds associated with previous fire damage and evidence of some termite activity within the trees' structure.
- **The works proposed**, with reference to drawings titled - RCB_50% Design Draft Rev. A dated 23.07.2024 – indicate that a sealed area for the use of heavy vehicles is planned to be constructed within close proximity of tree 81 & 85.
- The sealed area is understood to comprise a concrete pavement suitable for large and heavy vehicles and it was understood that site levels would not accommodate significant filling of the area and therefore, excavation of the area north of these trees to a depth of 500mm or more may be required to construct the pavement.
- **Trees 81 and 85** are both twin-stemmed and both display an asymmetric form with the more vigorous northern stem leaning and their canopies developing in a northerly direction over the proposed sealed area.
- Substantial crown reduction of both trees was therefore considered likely to be required if the trees were to be retained.

Recommendations

- **It is recommended that these two trees are removed if works are to proceed as per the draft drawings provided, it can be demonstrated that:**
 - Excavation to a depth greater than 300mm will be required within approximately 50% of the TPZ area and encroach within the SRZ radius of the trees.
 - Crown reduction pruning to accommodate the movement of large vehicles will require severe reduction of the more vigorous northern stem sections and thereby require the removal of more than approximately 33% of the live crown of the trees.
- **If modification of the plans is to be considered with a view to retaining these trees, it is advised that:**
 - A fenced tree protection area will be required to exclude all excavation within 2.5m of the base of the trees.
 - Pruning removes no more than approximately 30% of the live canopy of each tree and is carried out by a minimum Certificate Level 3 qualified arborist.



Limitation of liability

Trees can be managed, but they cannot be controlled. To live or work near a tree involves a degree of risk. This report only covers identifiable defects present at the time of inspection. Paperbark Technologies accepts no responsibility and cannot be held liable for any structural defect or unforeseen event/situation or adverse weather conditions that may occur after the time of inspection. Paperbark Technologies cannot guarantee that the tree/s contained within this report will be structurally sound under all circumstances and is not able to detect every condition that may possibly lead to the structural failure of a tree. Paperbark Technologies cannot guarantee that the recommendations made will categorically result in the tree being made safe. Unless specifically mentioned this report will only be concerned with above ground inspections, as such all observations have been visually assessed from ground level. Trees are living organisms and as such cannot be classified as safe under any circumstances. Trees fail in ways that the arboriculture industry does not fully understand. The recommendations are made on the basis of what can be reasonably identified at the time of inspection therefore Paperbark Technologies accepts no liability for any recommendations made. All care has been taken to obtain information from reliable sources, however Paperbark Technologies can neither guarantee nor be responsible for the accuracy of information provided by others.

In the event that reinspection of the tree/s is recommended it is the client's responsibility to make arrangements with Paperbark Technologies.