

Arboricultural Impact Statement & Defendable Space Assessment

Date:	Thursday, 12 December 2024	Address	1 Badger Creek Road, Healesville
Project	Oonah Belonging Place	Client	Yarra Ranges Council C/- Workshop Architecture

Scope

This Arboricultural Impact Statement and Defendable Space Assessment has been prepared for Workshop Architecture to document impacts to trees from the proposed Oonah Belonging Place development. It also assesses trees that require removal in order to accord with the requirements of the Bushfire Management Plan prepared by Biosis (2022).

The site has had several assessments over multiple years that have varied in geographical scope and data collected. All data was reconciled and compiled in December 2023 with a consolidated report prepared (Ryder 2024). These data have been reused for this assessment, no further visits to site were completed.

The assessment of construction impact has been limited to those trees within the identified lease boundary as provided on drawings by Workshop Architecture. The defendable space boundary has been transposed from the Biosis Bushfire Management Plan (Figure 4, 2022). Trees beyond the defendable space boundary have not been considered in this assessment. Whilst 444 trees were recorded in the arboricultural report in January 2024, only 80 are within the defendable space area and presented here.

All assessments have been completed in accordance with AS4970-2009 *Protection of Trees on development Sites*

Referenced Documents

- Arboricultural Impact, Tree Works and Ground Fuel Assessment, Assessment of trees at Queens Park as part of the Oonah Belonging Place development, prepared by C&R Ryder Consulting, dated 12/01/2024.
- Architectural Drawings, prepared by Workshop Architecture, dated 14/11/2024, 21 pages
- Bushfire Management Plan (Figure 4), prepared by Biosis, 15/12/2022
- Drawing of the Lease Boundary, 2014-05-13 HICSA lease 43.pdf
- CAD files:
 - HEALESVILLE INDIGENOUS COMMUNITY PRECINCT _ 2D (REVB).dwg
 - 1763 OONA_ Floor Plan - 00 SITE - CAD EXPORT.dwg

Arboricultural Impact

The impact of the proposal on Tree Protection Zones (TPZ) and Structural Root Zones (SRZ) of trees has been assessed (**Error! Reference source not found.**). Trees with 100% encroachment include those where the trunk is located within the development. Trees not encroached are not shown.

The percentage encroachments were calculated and the levels of impact were determined in accordance with AS 4970-2009, *Protection of Trees on Development Sites* as follows:

- **Major**– Encroachment $\geq 10\%$ and/or SRZ intrusion
- **Minor** - Encroachment $< 10\%$ and no SRZ intrusion
- **None** - Construction works do not encroach on the TPZ.

Trees Within the Proposal, 100% TPZ Impact

40 trees will be within the proposed design of the building, paths or access roads (Table 1). These trees will require removal to implement the design. Removal of these trees has been considered as part of the defensible space assessments and requirements for canopy separation. As such, if any trees in this list were retained, the defensible space and canopy separation assessments would also require review. Redesigning any part of the development, may not change the tree outcome because of the requirements for separation of tree canopies across the site.

Table 1: Trees with 100% TPZ encroachment due to design

ID	Botanical Name	Common Name	Origin	Height	Width	Retention Value	Reason
443	<i>Eucalyptus ovata</i>	Swamp Gum	Indigenous	18	20	High	Tree is within path design, removal would be required for canopy separation, no alternatives proposed
447	<i>Prunus cerasifera</i>	Cherry Plum	Exotic	6	8	Low	Tree is within design
449	<i>Callistemon viminalis</i>	Weeping Bottle Brush	Aust. Native	9	5	Low	Tree is within design
450	<i>Callistemon salignus</i>	Willow Bottle Brush	Aust. Native	13	4	Moderate	Tree is within design
451	<i>Eucalyptus ovata</i>	Swamp Gum	Indigenous	18	14	Moderate	Tree is within design
453	<i>Eucalyptus ovata</i>	Swamp Gum	Indigenous	5	2	Low	Tree is within design
454	<i>Acacia implexa</i>	Lightwood	Indigenous	6	2	Low	Tree is within design
455	<i>Acacia melanoxylon</i>	Blackwood	Indigenous	13	6	Low	Tree is within design
457	<i>Acacia melanoxylon</i>	Blackwood	Indigenous	14	4	Moderate	Tree is within design
458	<i>Acacia melanoxylon</i>	Blackwood	Indigenous	15	6	Moderate	Tree is within design
459	<i>Acacia melanoxylon</i>	Blackwood	Indigenous	12	7	None	Tree is within design
460	<i>Hakea salicifolia</i>	Willow Hakea	Aust. Native	6	5	Low	Tree is within design
461	<i>Corymbia ficifolia</i>	Flowering Gum	Aust. Native	4	3	Low	Tree is within design
462	<i>Acacia implexa</i>	Lightwood	Indigenous	9	5	Low	Tree is within design
463	<i>Acacia melanoxylon</i>	Blackwood	Indigenous	7	3	Low	Tree is within design
464	<i>Acacia implexa</i>	Lightwood	Indigenous	13	5	Moderate	Tree is within design
465	<i>Melaleuca linariifolia</i>	Snow in Summer	Aust. Native	6	2	Low	Tree is within design
466	<i>Eucalyptus ovata</i>	Swamp Gum	Indigenous	18	8	Moderate	Tree is within design
467	<i>Elaeocarpus reticulatus</i>	Blueberry Ash	Aust. Native	6	3	Low	Tree is within design
468	<i>Banksia integrifolia</i>	Coast Banksia	Indigenous	6	3	Low	Tree is within design

ID	Botanical Name	Common Name	Origin	Height	Width	Retention Value	Reason
470	<i>Robinia pseudoacacia</i>	Black Locust	Exotic	6	7	Low	Tree is within design
483	<i>Melaleuca linariifolia</i>	Snow in Summer	Aust. Native	8	7	Moderate	Tree is within design
484	<i>Callistemon 'Kings Park Special'</i>	Crimson Bottle Brush	Aust. Native	7	3	Low	Tree is within design
485	<i>Elaeocarpus reticulatus</i>	Blueberry Ash	Aust. Native	6	3	Low	Tree is within design
486	<i>Hymenosporum flavum</i>	Native Frangi-pani	Aust. Native	8	7	Moderate	Tree is within design
487	<i>Acer palmatum</i>	Japanese Maple	Exotic	4	2	Low	Tree is within design
489	<i>Feijoa sellowiana</i>	Feijoa	Exotic	4	5	Moderate	Tree is within design
490	<i>Prunus cerasifera</i>	Cherry Plum	Exotic	2	3	Low	Tree is within design
493	<i>Acacia implexa</i>	Lightwood	Indigenous	10	10	Low	Tree is within path design, removal would be required for canopy separation, no alternatives proposed
494	<i>Acacia prominens</i>	Golden Rain Wattle	Aust. Native	5	7	Low	Tree is within path design, removal would be required for canopy separation, no alternatives proposed
495	<i>Acacia elata</i>	Cedar Wattle	Aust. Native	12	7	Low	Tree is within roadway, no alternatives proposed
498	<i>Fraxinus oxycarpa</i>	Desert Ash	Exotic	11	10	Low	Tree is within roadway, no alternatives proposed
499	<i>Fraxinus Raywood</i>	Claret Ash	Exotic	13	12	Moderate	Tree is within roadway, no alternatives proposed
501	<i>Melaleuca armillaris</i>	Giant Honey Myrtle	Aust. Native	8	5	Low	Tree is within design
503	<i>Calothamnus quadrifidus</i>	Common Net Bush	Aust. Native	3	1	Low	Tree is within design
504	<i>Callistemon viminalis</i>	Weeping Bottle Brush	Aust. Native	6	5	Low	Tree is within car park design, no alternatives proposed
505	<i>Melaleuca ericifolia</i>	Swamp Paperbark	Indigenous	4	2	Low	Tree is within car park design, no alternatives proposed
506	<i>Callistemon citrinus</i>	Crimson Bottle Brush	Aust. Native	4	3	Low	Tree is within car park design, no alternatives proposed
507	<i>Calothamnus quadrifidus</i>	Common Net Bush	Aust. Native	3	1	Low	Tree is within car park design, no alternatives proposed
508	<i>Melaleuca styphelioides</i>	Prickly Paperbark	Aust. Native	8	5	Moderate	Tree is within car park design, no alternatives proposed

Trees With TPZ Encroachment that Require Removal

Table 2 details 11 trees that will suffer partial TPZ encroachments that will not remain viable under the design. The assessment has considered that no canopies can overhang the building. In some cases, the requirement for removal has also considered canopy loss or separation requirements as well as TPZ encroachment to determine retention or removal.

Table 2: Trees with partial TPZ encroachment that are proposed for removal

ID	Botanical Name	Origin	Height	Width	Retention Value	TPZ Encr	SRZ Encr	Encr Level	Outcome
18	<i>Eucalyptus ovata</i> Swamp Gum	Indigenous	24	14	Low	80	Yes	Major	Lost
Construction impacts too high									
19	<i>Acacia melanoxylon</i> Blackwood	Indigenous	7	4	Low	36	Yes	Major	Lost
Remove for canopy separation and bushfire management									
21	<i>Acacia melanoxylon</i> Blackwood	Indigenous	7	5	Low	11	Yes	Major	Lost
Remove for canopy separation to Tree 17 and bushfire management									
437	<i>Eucalyptus ovata</i> Swamp Gum	Indigenous	25	10	Moderate	27	Yes	Major	Lost
Remove for canopy separation and bushfire management									
469	<i>Melaleuca armillaris</i> Giant Honey Myrtle	Aust. Native	9	9	Low	22	Yes	Major	Lost
Construction impacts too high, pruning would be excessive, tree not viable within design, low retention value tree									
471	<i>Acacia melanoxylon</i> Blackwood	Indigenous	15	6	None	21	Yes	Major	Lost
Tree is dead									
472	<i>Eucalyptus ovata</i> Swamp Gum	Indigenous	18	7	Moderate	46	Yes	Major	Lost
Construction impacts too high, pruning would be excessive, tree not viable within design									
473	<i>Eucalyptus ovata</i> Swamp Gum	Indigenous	18	14	High	22	Yes	Major	Lost
Construction impacts too high, pruning would be excessive, tree not viable within design									
491	<i>Malus domestica</i> Apple	Exotic	2	3	Low	4	No	None	Lost
Low retention tree									
500	<i>Callistemon viminalis</i> Weeping Bottle Brush	Aust. Native	4	5	Low	37	Yes	Major	Lost
Construction impacts too high, tree not viable within design									
502	<i>Malus domestica</i> Apple	Exotic	2	2	Low	30	Yes	Major	Lost
Construction impacts too high, tree not viable within design, low retention value tree									

- **TPZ Encr-** TPZ Encroachment, calculated TPZ encroachment in accordance with AS4970-2009 expressed as a percentage.
- **SRZ Encr-** SRZ Encroachment, whether or not the development encroaches into the SRZ expressed as a Yes or No
- **Encr Level-** Encroachment Level, Major or Minor in accordance with AS4970-2009

Trees to be Removed for Defendable Space

16 trees require removal to provide adequate canopy separation (Table 3). Where possible, the selection has focussed on preferentially removing weed species, poor quality trees, smaller trees or those with a short useful life.

Table 3: Trees to be removed for defendable space and canopy separation.

ID	Botanic Name Common Name	Origin	Height	Width	Health	Structure	Retention Value	Reason
15	<i>Syzygium australe</i> Brush Cherry	Aust. Native	4	2	Good	Fair	Low	Remove for canopy separation to Tree 17 and bushfire management
16	<i>Ligustrum lucidum</i> Privet	Exotic	4	3	Good	Fair	Low	Remove for canopy separation to Tree 17 and bushfire management
20	<i>Acacia melanoxylon</i> Blackwood	Indigenous	7	5	Good	Fair	Low	Remove for canopy separation to Tree 17 and bushfire management
432	<i>Exocarpos cupressiformis</i> Cherry Ballart	Indigenous	7	4	Good	Good	Moderate	Remove for canopy separation to Tree 17 and bushfire management
434	<i>Ligustrum lucidum</i> Privet	Exotic	5	3	Good	Fair	Low	Remove for canopy separation to Tree 17 and bushfire management
442	<i>Eucalyptus ovata</i> Swamp Gum	Indigenous	15	7	Fair	Poor	Moderate	Remove for canopy separation to Tree 514 and bushfire management, tree has poor structure
444	<i>Callistemon</i> 'Kings Park Special' Crimson Bottle Brush	Aust. Native	5	3	Good	Fair	Low	Remove for canopy separation, Low retention tree
446	<i>Prunus cerasifera</i> Cherry Plum	Exotic	5	3	Good	Fair	Low	Weed species
475	<i>Prunus cerasifera</i> Cherry Plum	Exotic	6	4	Good	Poor	Low	Weed species, remove for canopy separation to Tree 482
476	<i>Hakea salicifolia</i> Willow Hakea	Aust. Native	5	3	Good	Poor	Low	Poor structure and weed species, remove for canopy separation to Tree 482
477	<i>Hakea salicifolia</i> Willow Hakea	Aust. Native	5	2	Fair	Fair	Low	Weed species, remove for canopy separation to Tree 482
479	<i>Acacia melanoxylon</i> Blackwood	Indigenous	6	2	Poor	Fair	Low	Poor health and limited ULE, remove for canopy separation to Tree 482
480	<i>Acacia melanoxylon</i> Blackwood	Indigenous	7	2	Good	Good	Moderate	Remove for canopy separation to Tree 482
481	<i>Acacia melanoxylon</i> Blackwood	Indigenous	7	3	Good	Good	Moderate	Remove for canopy separation to Tree 482
492	<i>Hakea salicifolia</i> Willow Hakea	Aust. Native	6	3	Good	Fair	Low	Weed species
509	<i>Melaleuca styphelioides</i> Prickly Paperbark	Aust. Native	9	6	Good	Fair	Moderate	Remove for canopy separation to Tree 109 & 510

Trees Listed for Provisional Retention

4 trees have been listed for provisional retention (Table 4). The proposal seeks to retain these trees; however, additional investigation or design modification is required to ensure their retention. If the recommendations for each tree cannot be accommodated, the tree will be considered lost and subsequently require removal.

Table 4: Trees listed for provisional retention subject to further works.

ID	Botanical Name Common Name	Height	Width	DBH	DAB	Health	Structure	ULE	Retention Value
482	<i>Eucalyptus ovata</i> Swamp Gum	25	16	70	85	Good	Good	20+	High
TPZr (m)	SRZr (m)	TPZ Encr	SRZ Encr	Encr Level	Recommendation				
8.4	3.09	30	Yes	Major	Root investigation required, driveway to be constructed with minimal excavation, TPMP required				
425	<i>Acacia melanoxylon</i> Blackwood	9	7	46	52	Fair	Fair	6-10	Moderate
TPZr (m)	SRZr (m)	TPZ Encr	SRZ Encr	Encr Level	Recommendation				
5.52	2.51	43	Yes	Major	Realign path to be >1.5m from edge of trunk, path to be constructed at grade and remain porous, prune to maintain clearance to Tree 424, TPMP required				
423	<i>Acacia melanoxylon</i> Blackwood	11	4	31	33	Good	Good	20+	Moderate
TPZr (m)	SRZr (m)	TPZ Encr	SRZ Encr	Encr Level	Recommendation				
3.72	2.08	49	Yes	Major	Turning bay to be permeable with minimal excavation, path constructed at grade and permeable, TPMP required, retain with Tree 424 as clump for bushfire purposes				
424	<i>Acacia melanoxylon</i> Blackwood	13	5	39	43	Good	Fair	6-10	Moderate
TPZr (m)	SRZr (m)	TPZ Encr	SRZ Encr	Encr Level	Recommendation				
4.68	2.32	56	Yes	Major	Turning bay to be permeable with minimal excavation, path constructed at grade and permeable, TPMP required, retain with Tree 423 as clump for bushfire purposes, prune to maintain clearance to Tree 424				

Trees Retained Within the Development

9 trees can be retained within the defensible space area, inside the lease boundary at the site (Table 5). These trees have a mix of TPZ encroachments; however, any major impacts have been considered in terms of their extent.

For Tree 17, the building encroachment is largely within the footprint of the existing buildings. The major part of the TPZ encroachment is for a path that can be constructed so as to minimise any damage to tree roots.

For Tree 514, all TPZ encroachments are from proposed landscaping. Minimising excavation, development of a Tree Protection Management Plan (TPMP) and suitable oversight by a project arborist will ensure that this tree can remain viable.

Table 5: Trees to be retained.

ID	Botanical Name	Retention Value	TPZ Encr	SRZ Encr	Encr Level	Actions
17	<i>Eucalyptus viminalis</i> Manna Gum	Low	46	Yes	Major	Building encroachment mostly within existing footprint, construct path at grade, TPMP required, canopy pruning required to ensure no building overhang for bushfire purposes
109	<i>Eucalyptus ovata</i> Swamp Gum	High	0	No	None	TPMP required
445	<i>Callistemon salignus</i> Willow Bottle Brush	Moderate	0	No	None	TPMP required
496	<i>Callistemon citrinus</i> Crimson Bottle Brush	Low	8	Yes	Major	Minimal TPZ encroachment from proposed parking, TPMP required
510	<i>Acer palmatum</i> Japanese Maple	Moderate	0	No	None	TPMP required
511	<i>Corymbia citriodora</i> Lemon-scented Gum	High	0	No	None	Retain with Tree 512 as clump for bushfire purposes
512	<i>Populus alba</i> White Poplar	Low	0	No	None	Retain with Tree 511 as clump for bushfire purposes
513	<i>Kunzea leptospermoides</i> Yarra Burgan	Low	0	No	None	None
514	<i>Eucalyptus ovata</i> Swamp Gum	Low	69	Yes	Major	Encroachments are landscaping, paths and garden beds to remain at grade, TPMP required

Summary

The Oonah Belonging Place will have an impact on the trees as both a direct result of the buildings and works as well as the requirements to manage the site for defensible space. In total, 67 trees will require removal within the defensible space boundary in order to complete the works.

Table 6 below provides a summary of the expected retention and removal requirements for the project.

Table 6: Summary of arboricultural impacts

Retention Value	Within design, remove	Other removals	Provisional retention	Retention	Total
High	1	1	1	2	5
Moderate	11	7	3	2	23
Low	27	18	0	5	50
None	1	1	0	0	2
Total	40	27	4	9	80

If you have any further queries, please don't hesitate to contact me on 0434 351 567.

Regards



Cameron Ryder
C&R Ryder Consulting Pty Ltd

Tabular Data

ID	Botanical Name	Common Name	Origin	Height	Width	Health	Structure	ULE	Retention Value	TPZr (m)	SRZ (m)	TPZ Encr	SRZ Encr	Encr Level	Outcome	Reason
15	<i>Syzygium australe</i>	Brush Cherry	Aust. Native	4	2	Good	Fair	11-20	Low	2	1.5	0	No	None	Lost	Remove for canopy separation to Tree 17 and bushfire management
16	<i>Ligustrum lucidum</i>	Privet	Exotic	4	3	Good	Fair	11-20	Low	2	1.5	0	No	None	Lost	Remove for canopy separation to Tree 17 and bushfire management
17	<i>Eucalyptus viminalis</i>	Manna Gum	Indig.	26	20	Good	Fair	20+	Low	11.64	3.87	46	Yes	Major	Retained	Building encroachment mostly within existing footprint, construct path at grade, TPMP required, canopy pruning required to ensure no building overhang for bushfire purposes
18	<i>Eucalyptus ovata</i>	Swamp Gum	Indig.	24	14	Fair	Fair	20+	Low	8.4	3.03	80	Yes	Major	Lost	Construction impacts too high
19	<i>Acacia melanoxydon</i>	Blackwood	Indig.	7	4	Good	Fair	11-20	Low	2.52	1.82	36	Yes	Major	Lost	Remove for canopy separation and bushfire management
20	<i>Acacia melanoxydon</i>	Blackwood	Indig.	7	5	Good	Fair	11-20	Low	2.16	1.68	0	No	None	Lost	Remove for canopy separation to Tree 17 and bushfire management
21	<i>Acacia melanoxydon</i>	Blackwood	Indig.	7	5	Good	Fair	11-20	Low	2.16	1.72	11	Yes	Major	Lost	Remove for canopy separation to Tree 17 and bushfire management
109	<i>Eucalyptus ovata</i>	Swamp Gum	Indig.	17	13	Poor	Fair	11-20	High	11.64	3.31	0	No	None	Retained	TPMP required
423	<i>Acacia melanoxydon</i>	Blackwood	Indig.	11	4	Good	Good	20+	Moderate	3.72	2.08	49	Yes	Major	Provisional retention	Turning bay to be permeable with minimal excavation, path constructed at grade and permeable, TPMP required, retain with Tree 424 as clump for bushfire purposes

ID	Botanical Name	Common Name	Origin	Height	Width	Health	Structure	ULE	Retention Value	TPZr (m)	SRZ (m)	TPZ Encr	SRZ Encr	Encr Level	Outcome	Reason
424	<i>Acacia melanoxydon</i>	Blackwood	Indig.	13	5	Good	Fair	6-10	Moderate	4.68	2.32	56	Yes	Major	Provisional retention	Turning bay to be permeable with minimal excavation, path constructed at grade and permeable, TPMP required, retain with Tree 423 as clump for bushfire purposes, prune to maintain clearance to Tree 424
425	<i>Acacia melanoxydon</i>	Blackwood	Indig.	9	7	Fair	Fair	6-10	Moderate	5.52	2.51	43	Yes	Major	Provisional retention	Realign path to be >1.5m from edge of trunk, path to be constructed at grade and remain porous, prune to maintain clearance to Tree 424, TPMP required
432	<i>Exocarpos cupressiformis</i>	Cherry Ballart	Indig.	7	4	Good	Good	20+	Moderate	2	1.5	0	No	None	Lost	Remove for canopy separation to Tree 17 and bushfire management
434	<i>Ligustrum lucidum</i>	Privet	Exotic	5	3	Good	Fair	20+	Low	2	1.5	0	No	None	Lost	Remove for canopy separation to Tree 17 and bushfire management
437	<i>Eucalyptus ovata</i>	Swamp Gum	Indig.	25	10	Fair	Fair	11-20	Moderate	7.2	2.78	27	Yes	Major	Lost	Remove for canopy separation and bushfire management
442	<i>Eucalyptus ovata</i>	Swamp Gum	Indig.	15	7	Fair	Poor	6-10	Moderate	5.4	2.51	0	No	None	Lost	Remove for canopy separation to Tree 514 and bushfire management, tree has poor structure
443	<i>Eucalyptus ovata</i>	Swamp Gum	Indig.	18	20	Fair	Fair	20+	High	11.64	3.65	100	Yes	Major	Lost	Tree is within path design, removal would be required for canopy separation, no alternatives proposed
444	<i>Callistemon 'Kings Park Special'</i>	Crimson Bottle Brush	Aust. Native	5	3	Good	Fair	6-10	Low	2	1.5	0	No	None	Lost	Remove for canopy separation, Low retention tree
445	<i>Callistemon salignus</i>	Willow Bottle Brush	Aust. Native	8	4	Good	Good	20+	Moderate	2.04	1.82	0	No	None	Retained	TPMP required
446	<i>Prunus cerasifera</i>	Cherry Plum	Exotic	5	3	Good	Fair	20+	Low	2	1.5	0	No	None	Lost	Weed species

ID	Botanical Name	Common Name	Origin	Height	Width	Health	Structure	ULE	Retention Value	TPZr (m)	SRZ (m)	TPZ Encr	SRZ Encr	Encr Level	Outcome	Reason
447	<i>Prunus cerasifera</i>	Cherry Plum	Exotic	6	8	Fair	Fair	6-10	Low	2.76	2	100	Yes	Major	Lost	Tree is within design
449	<i>Callistemon viminalis</i>	Weeping Bottle Brush	Aust. Native	9	5	Good	Fair	20+	Low	2.04	1.61	100	No	None	Lost	Tree is within design
450	<i>Callistemon salignus</i>	Willow Bottle Brush	Aust. Native	13	4	Good	Good	11-20	Moderate	2.88	2.05	100	Yes	Major	Lost	Tree is within design
451	<i>Eucalyptus ovata</i>	Swamp Gum	Indig.	18	14	Fair	Fair	11-20	Moderate	11.4	3.39	100	Yes	Major	Lost	Tree is within design
453	<i>Eucalyptus ovata</i>	Swamp Gum	Indig.	5	2	Good	Fair	20+	Low	2	1.5	100	Yes	Major	Lost	Tree is within design
454	<i>Acacia implexa</i>	Lightwood	Indig.	6	2	Poor	Fair	1-5	Low	2	1.5	100	Yes	Major	Lost	Tree is within design
455	<i>Acacia melanoxylon</i>	Blackwood	Indig.	13	6	Poor	Poor	1-5	Low	4.92	2.55	100	Yes	Major	Lost	Tree is within design
457	<i>Acacia melanoxylon</i>	Blackwood	Indig.	14	4	Fair	Fair	6-10	Moderate	2.16	1.75	100	Yes	Major	Lost	Tree is within design
458	<i>Acacia melanoxylon</i>	Blackwood	Indig.	15	6	Fair	Fair	11-20	Moderate	3.24	2.1	100	Yes	Major	Lost	Tree is within design
459	<i>Acacia melanoxylon</i>	Blackwood	Indig.	12	7	Dead	Poor	0	None	4.32	2.32	100	Yes	Major	Lost	Tree is within design
460	<i>Hakea salicifolia</i>	Willow Hakea	Aust. Native	6	5	Good	Fair	11-20	Low	2	1.61	100	Yes	Major	Lost	Tree is within design
461	<i>Corymbia ficifolia</i>	Flowering Gum	Aust. Native	4	3	Fair	Fair	1-5	Low	2	1.5	100	Yes	Major	Lost	Tree is within design
462	<i>Acacia implexa</i>	Lightwood	Indig.	9	5	Poor	Poor	1-5	Low	2	1.75	100	Yes	Major	Lost	Tree is within design
463	<i>Acacia melanoxylon</i>	Blackwood	Indig.	7	3	Good	Poor	1-5	Low	2	1.97	100	Yes	Major	Lost	Tree is within design
464	<i>Acacia implexa</i>	Lightwood	Indig.	13	5	Fair	Fair	6-10	Moderate	3.72	2.1	100	Yes	Major	Lost	Tree is within design
465	<i>Melaleuca linariifolia</i>	Snow in Summer	Aust. Native	6	2	Fair	Fair	6-10	Low	2	1.5	100	Yes	Major	Lost	Tree is within design
466	<i>Eucalyptus ovata</i>	Swamp Gum	Indig.	18	8	Good	Fair	20+	Moderate	4.8	2.49	100	Yes	Major	Lost	Tree is within design
467	<i>Elaeocarpus reticulatus</i>	Blueberry Ash	Aust. Native	6	3	Good	Fair	11-20	Low	2	1.5	100	Yes	Major	Lost	Tree is within design

ID	Botanical Name	Common Name	Origin	Height	Width	Health	Structure	ULE	Retention Value	TPZr (m)	SRZ (m)	TPZ Encr	SRZ Encr	Encr Level	Outcome	Reason
468	<i>Banksia integrifolia</i>	Coast Banksia	Indig.	6	3	Good	Fair	11-20	Low	2	1.5	100	Yes	Major	Lost	Tree is within design
469	<i>Melaleuca armillaris</i>	Giant Honey Myrtle	Aust. Native	9	9	Good	Fair	20+	Low	3	2	22	Yes	Major	Lost	Construction impacts too high, pruning would be excessive, tree not viable within design, low retention value tree
470	<i>Robinia pseudoacacia</i>	Black Locust	Exotic	6	7	Poor	Fair	1-5	Low	3	1.91	100	Yes	Major	Lost	Tree is within design
471	<i>Acacia melanoxydon</i>	Blackwood	Indig.	15	6	Dead	Poor	0	None	4.08	2.25	21	Yes	Major	Lost	Tree is dead
472	<i>Eucalyptus ovata</i>	Swamp Gum	Indig.	18	7	Fair	Fair	11-20	Moderate	4.92	2.63	46	Yes	Major	Lost	Construction impacts too high, pruning would be excessive, tree not viable within design
473	<i>Eucalyptus ovata</i>	Swamp Gum	Indig.	18	14	Good	Fair	20+	High	8.52	3.01	22	Yes	Major	Lost	Construction impacts too high, pruning would be excessive, tree not viable within design
475	<i>Prunus cerasifera</i>	Cherry Plum	Exotic	6	4	Good	Poor	6-10	Low	2.04	1.68	0	No	None	Lost	Weed species, remove for canopy separation to Tree 482
476	<i>Hakea salicifolia</i>	Willow Hakea	Aust. Native	5	3	Good	Poor	6-10	Low	2	1.65	0	No	None	Lost	Poor structure and weed species, remove for canopy separation to Tree 482
477	<i>Hakea salicifolia</i>	Willow Hakea	Aust. Native	5	2	Fair	Fair	6-10	Low	2	1.5	0	No	None	Lost	Weed species, remove for canopy separation to Tree 482
479	<i>Acacia melanoxydon</i>	Blackwood	Indig.	6	2	Poor	Fair	1-5	Low	2	1.5	0	No	None	Lost	Poor health and limited ULE, remove for canopy separation to Tree 482
480	<i>Acacia melanoxydon</i>	Blackwood	Indig.	7	2	Good	Good	20+	Moderate	2	1.5	0	No	None	Lost	Remove for canopy separation to Tree 482
481	<i>Acacia melanoxydon</i>	Blackwood	Indig.	7	3	Good	Good	20+	Moderate	2	1.57	0	No	None	Lost	Remove for canopy separation to Tree 482
482	<i>Eucalyptus ovata</i>	Swamp Gum	Indig.	25	16	Good	Good	20+	High	8.4	3.09	30	Yes	Major	Provisional retention	Root investigation required, driveway to be constructed with minimal excavation, TPMP required
483	<i>Melaleuca linariifolia</i>	Snow in Summer	Aust. Native	8	7	Good	Fair	20+	Moderate	3.96	2.08	100	Yes	Major	Lost	Tree is within design

ID	Botanical Name	Common Name	Origin	Height	Width	Health	Structure	ULE	Retention Value	TPZr (m)	SRZ (m)	TPZ Encr	SRZ Encr	Encr Level	Outcome	Reason
484	<i>Callistemon 'Kings Park Special'</i>	Crimson Bottle Brush	Aust. Native	7	3	Poor	Fair	1-5	Low	2.52	1.72	100	Yes	Major	Lost	Tree is within design
485	<i>Elaeocarpus reticulatus</i>	Blueberry Ash	Aust. Native	6	3	Good	Fair	6-10	Low	2	1.5	100	Yes	Major	Lost	Tree is within design
486	<i>Hymenosporum flavum</i>	Native Frangi-pani	Aust. Native	8	7	Good	Fair	11-20	Moderate	2.4	1.79	100	Yes	Major	Lost	Tree is within design
487	<i>Acer palmatum</i>	Japanese Maple	Exotic	4	2	Good	Fair	11-20	Low	2	1.5	100	Yes	Major	Lost	Tree is within design
489	<i>Feijoa sellowiana</i>	Feijoa	Exotic	4	5	Good	Fair	11-20	Moderate	2	1.53	100	Yes	Major	Lost	Tree is within design
490	<i>Prunus cerasifera</i>	Cherry Plum	Exotic	2	3	Good	Fair	6-10	Low	2	1.5	100	Yes	Major	Lost	Tree is within design
491	<i>Malus domestica</i>	Apple	Exotic	2	3	Good	Fair	6-10	Low	2	1.5	4	No	None	Lost	Low retention tree
492	<i>Hakea salicifolia</i>	Willow Hakea	Aust. Native	6	3	Good	Fair	6-10	Low	2.28	1.97	0	No	None	Lost	Weed species
493	<i>Acacia implexa</i>	Lightwood	Indig.	10	10	Poor	Fair	6-10	Low	3.84	2.39	100	Yes	Major	Lost	Tree is within path design, removal would be required for canopy separation, no alternatives proposed
494	<i>Acacia prominens</i>	Golden Rain Wattle	Aust. Native	5	7	Fair	Poor	6-10	Low	2	1.72	100	Yes	Major	Lost	Tree is within path design, removal would be required for canopy separation, no alternatives proposed
495	<i>Acacia elata</i>	Cedar Wattle	Aust. Native	12	7	Poor	Poor	1-5	Low	6.72	2.78	100	Yes	Major	Lost	Tree is within roadway, no alternatives proposed
496	<i>Callistemon citrinus</i>	Crimson Bottle Brush	Aust. Native	5	4	Good	Fair	20+	Low	2	1.57	8	Yes	Major	Retained	Minimal TPZ encroachment from proposed parking, TPMP required
498	<i>Fraxinus oxycarpa</i>	Desert Ash	Exotic	11	10	Good	Fair	20+	Low	4.56	2.18	100	Yes	Major	Lost	Tree is within roadway, no alternatives proposed
499	<i>Fraxinus Raywood</i>	Claret Ash	Exotic	13	12	Good	Fair	20+	Moderate	6.72	2.63	100	Yes	Major	Lost	Tree is within roadway, no alternatives proposed

ID	Botanical Name	Common Name	Origin	Height	Width	Health	Structure	ULE	Retention Value	TPZr (m)	SRZ (m)	TPZ Encr	SRZ Encr	Encr Level	Outcome	Reason
500	<i>Callistemon viminalis</i>	Weeping Bottle Brush	Aust. Native	4	5	Good	Fair	20+	Low	3.36	1.94	37	Yes	Major	Lost	Construction impacts too high, tree not viable within design
501	<i>Melaleuca armillaris</i>	Giant Honey Myrtle	Aust. Native	8	5	Good	Fair	6-10	Low	3.48	2	100	Yes	Major	Lost	Tree is within design
502	<i>Malus domestica</i>	Apple	Exotic	2	2	Good	Fair	6-10	Low	2	1.5	30	Yes	Major	Lost	Construction impacts too high, tree not viable within design, low retention value tree
503	<i>Calothamnus quadrifidus</i>	Common Net Bush	Aust. Native	3	1	Good	Fair	20+	Low	2	1.5	100	Yes	Major	Lost	Tree is within design
504	<i>Callistemon viminalis</i>	Weeping Bottle Brush	Aust. Native	6	5	Good	Fair	6-10	Low	2	1.68	100	Yes	Major	Lost	Tree is within car park design, no alternatives proposed
505	<i>Melaleuca ericifolia</i>	Swamp Paperbark	Indig.	4	2	Poor	Poor	1-5	Low	2	1.5	100	Yes	Major	Lost	Tree is within car park design, no alternatives proposed
506	<i>Callistemon citrinus</i>	Crimson Bottle Brush	Aust. Native	4	3	Good	Fair	20+	Low	2	1.65	100	Yes	Major	Lost	Tree is within car park design, no alternatives proposed
507	<i>Calothamnus quadrifidus</i>	Common Net Bush	Aust. Native	3	1	Good	Fair	6-10	Low	2	1.5	100	Yes	Major	Lost	Tree is within car park design, no alternatives proposed
508	<i>Melaleuca styphelioides</i>	Prickly Paperbark	Aust. Native	8	5	Good	Fair	20+	Moderate	4.44	2.18	100	Yes	Major	Lost	Tree is within car park design, no alternatives proposed
509	<i>Melaleuca styphelioides</i>	Prickly Paperbark	Aust. Native	9	6	Good	Fair	20+	Moderate	2.76	1.88	0	No	None	Lost	Remove for canopy separation to Tree 109 & 510
510	<i>Acer palmatum</i>	Japanese Maple	Exotic	6	7	Good	Fair	11-20	Moderate	2.88	1.82	0	No	None	Retained	TPMP required
511	<i>Corymbia citriodora</i>	Lemon-scented Gum	Aust. Native	17	7	Good	Good	20+	High	5.28	2.67	0	No	None	Retained	Retain with Tree 512 as clump for bushfire purposes
512	<i>Populus alba</i>	White Poplar	Exotic	16	12	Fair	Fair	11-20	Low	7.32	2.97	0	No	None	Retained	Retain with Tree 511 as clump for bushfire purposes
513	<i>Kunzea leptospermoides</i>	Yarra Burgan	Indig.	3	3	Good	Fair	20+	Low	2	1.5	0	No	None	Retained	

ID	Botanical Name	Common Name	Origin	Height	Width	Health	Structure	ULE	Retention Value	TPZr (m)	SRZ (m)	TPZ Encr	SRZ Encr	Encr Level	Outcome	Reason
514	<i>Eucalyptus ovata</i>	Swamp Gum	Indig.	23	12	Fair	Poor	6-10	Low	8.04	2.98	69	Yes	Major	Retained	Encroachments are landscaping, paths and garden beds to remain at grade, TPMP required

Maps
