



arborist report

Arboricultural Impact Assessment (AIA)

42 Boorea Street,
Lidcombe NSW 2141

Inspection Date: 10-14 March 2022

PREPARED FOR:

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Document Information

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Project Name:	Proposed Industrial Development
Reference #:	E-001529
Client:	Hale Capital Partners
Site:	42 Boorea St, Lidcombe NSW 2141
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Document Status

Status	Date	Revision type
Version 1 - Draft	31 March 2022	
Version 2 - Final	3 May 2022	Amended based on revised plans
Version 3 - Final	8 November 2022	Minor changes to reference material

Report Assumptions and Limitations

1. Any description or information provided to the consultant by the client or third party is assumed to be correct.
2. All information has been sourced with care and verified to the best of the consultant's knowledge. Any opinions not duly researched is based upon the consultant's experience and observations.
3. The consultant shall not be required to give testimony or attend court by reason of this report unless under a contractual agreement, including payment of additional fees and charges for such services.
4. Modification or extraction of key contextual components invalidates the entire report.
5. There is no warranty, explicit or implicit that the problems and deficiencies associated with the site or vegetation may not arise in future.
6. Unless stated otherwise, the information contained within the report will address the items outlined in the project brief or that were examined during any site assessment and reflect the condition of those items at the time of inspection.
7. Unless otherwise specified, the inspection is limited to ground-based inspection of accessible areas without dissection, excavation or probing.
8. This report and its recommendations reflect an impartial assessment of the tree and its condition based on the available evidence and projected outcomes.

Executive Summary

The following report examines the potential impacts of the proposed development within 42 Boorea St, Lidcombe NSW 2141 on existing trees in the vicinity of the development site. The client proposes to construct a two-storey warehouse and distribution centre including ancillary office space, landscaping, bicycle and car parking.

An inspection was undertaken by Kane Hollstein from 10-14 March 2022. This was undertaken to derive tree retention values within the landscape, based on any heritage, environmental and arboricultural principles.

This report is designed to provide information about the relative retention values of all trees that may be affected by the project, assess the impacts of the project and provide recommendations for alteration to design or construction methods where necessary to minimise negative impacts. The report also provides recommended tree protection measures to ensure the viable, long-term retention of trees to be retained where appropriate.

The report has applied the Australian Standard AS4970-2009 *Protection of trees on development sites* which provides radial offsets to ensure the viability of trees where they are to be retained. These offsets are known as the Tree Protection Zone (TPZ) and Structural Root Zone (SRZ). An encroachment of less than 10% of the entire TPZ is considered minor provided it is outside the SRZ, and the area lost is compensated for elsewhere and contiguous to the TPZ. A major TPZ encroachment is considered to be greater than 10% of the entire TPZ area.

The trees have been allocated a significance rating and retention value as determined by using the Tree Significance - Assessment Criteria of the IACA Significance of a Tree, Assessment Rating System (STARS)© (IACA, 2010). An explanation of attributes required to achieve each category can be found in Appendix A. Recommendations, encroachment type and retention value are summarised in Table 1.

Table 1: Recommendation, TPZ Encroachment Type & Retention Value

Recommendation	Encroachment Type	Retention Value				Grand Total
		High - Priority for Retention	Medium - Consider for Retention	Low - Consider for Removal	Priority for Removal	
Remove	Major	19	43	76	23	161
	Minor		1		1	2
Remove Total		19	44	76	24	163
Retain	Major	1	3			4
	Minor	1	4	2		7
	Nil		11	4		15
Retain Total		2	18	6		26
Grand Total		21	62	82	24	189

A total of 294 trees combined under 161 tags have major, unmitigable encroachments into their TPZ and SRZ for the proposed driveway, civil and warehouse footprint and require removal to facilitate the proposed development. These include 2 trees within the adjoining industrial complex to the south. Of these:

- 19 are High Retention Value
- 43 are Medium Retention Value
- 76 are Low Retention Value
- 23 are a Priority for Removal

A total of 4 trees have TPZ encroachments that marginally exceed a major encroachment by less than 5%. These trees can potentially be retained pending root mapping and the use tree sensitive construction techniques.

A total of 9 trees have minor TPZ encroachments. Of these:

- Tree 128 (Medium Retention Value) has a minor TPZ encroachment but is suppressed by adjacent larger trees and will likely become destabilised once these trees are removed. This tree, therefore, requires removal.
- Tree 133 is dead and recommended for removal irrespective of the proposed development.
- The remaining 7 trees can be retained as the area lost to encroachment can be offset contiguous to the TPZ.

A total of 15 trees have no direct TPZ encroachment and can be retained provided tree protection measures are installed and maintained for the duration of the project.

The proposed development would therefore see the removal of a total of 296 trees and the retention of 26.

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1. Background

1.1. Introduction

Hale Capital Partners proposes to undertake an industrial development comprising a two-storey warehouse and distribution centre including ancillary office space, landscaping, bicycle and car parking at 42 Boorea St, Lidcombe NSW 2141.

Alana Garrick of Hale Capital Partners has engaged Canopy Consulting to investigate trees adjacent to the proposed works where they may be adversely affected by the project (hereafter 'the site' or 'the project').

The purpose of this report is to:

- identify trees within the study area
- assign retention values of all trees that may be affected within the site and those on adjoining properties
- assess the impacts of the project
- provide recommendations for alteration to design or construction methods where necessary to minimise negative impacts
- make recommendations in accordance with Australian Standard 4970–2009: *Protection of Trees on Development Sites* to ensure the viable, long-term retention of trees to be retained where appropriate

A preliminary development assessment report was carried out by Canopy Consulting and issued 17 March 2022 to assist in the planning and design and/or modification of new infrastructure that is proposed for construction within the site that may adversely affect site trees.

1.2. Project Location

The site is an active industrial site being Lot 1 in DP740385 with a total area of 28,962m². The address of the site is 42 Boorea St, Lidcombe NSW which is within the Cumberland Council local government area (LGA) (Figure 1). The site is zoned as IN1 - General Industrial under the Cumberland Local Environmental Plan 2021.

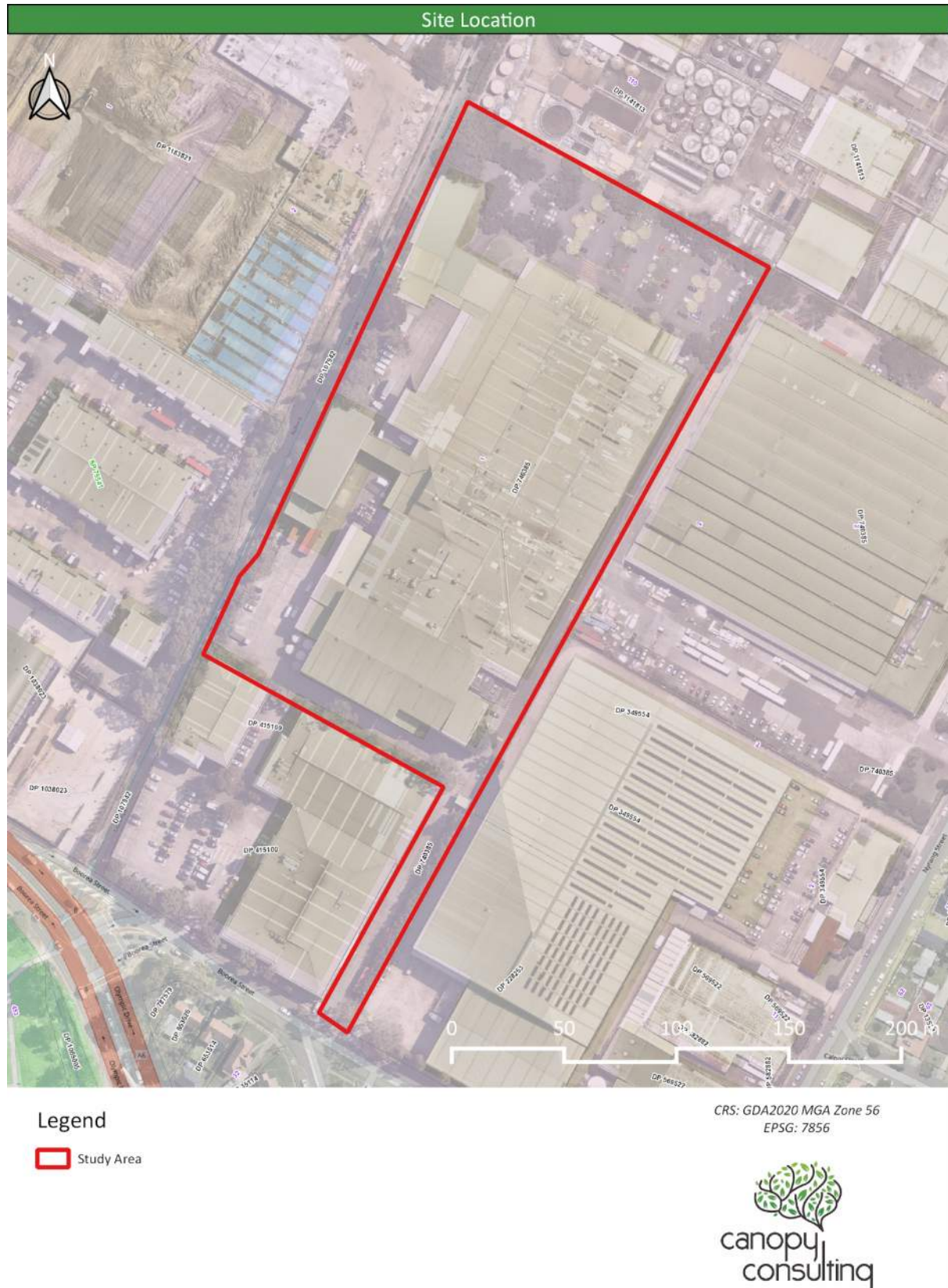


Figure 1: Project Area. (Nearmap/Open Street Maps, 2022)

1.3. Project Area

The project area comprises the overall potential area of direct disturbance or impact by the project. This will be contained within the site boundary.

This may be temporary for construction or permanent for operational infrastructure and extend below the ground surface.

This includes the location of temporary and permanent infrastructure work sites for;

- the construction of the proposed industrial development
- associated enabling infrastructure
- site access and laydown areas

1.4. Reviewed Plans and Documents

This report has relied on the following plans and documents:

Table 2: Reviewed Plans and Documents

Title	Author	Dwg. No.	Revision
Coverpage	SBA Architects	DA000	J
3D-1	SBA Architects	DA010	I
3D-2	SBA Architects	DA011	I
3D-3	SBA Architects	DA012	I
3D-4	SBA Architects	DA013	I
Site Analysis Plan & Summary	SBA Architects	DA050	J
Ground Floor	SBA Architects	DA100	N
Ground Floor Mezz Plan	SBA Architects	DA101	G
LEvel 1 Office Access	SBA Architects	DA102	G
Level 1	SBA Architects	DA103	K
Roof Plan	SBA Architects	DA104	G
Services/Constrains Plan	SBA Architects	DA105	H
Services/Constrains Plan	SBA Architects	DA106	H
GFA Calculations	SBA Architects	DA107	H
Offices-Ground 01-02	SBA Architects	DA120	E
Offices-Ground 03-04	SBA Architects	DA121	D
Office- Level 1 -05 -06	SBA Architects	DA125	D
Office- Level 1 -07 -08	SBA Architects	DA126	D
Office- Level 1- 09- 10	SBA Architects	DA127	D
Dock Offices	SBA Architects	DA130	B
Elevations	SBA Architects	DA200	G
Sections	SBA Architects	DA300	J
Sections	SBA Architects	DA301	F
Shadow Diagrams	SBA Architects	DA350	E

1.5. Proposed Works

Proposed plans indicate the proposed development will consist of:

- Demolition of the existing warehouse, car parks, road surfaces and ancillary structures
- Construction, fit-out and operation of a two-storey warehouse and distribution centre comprising approximately 28,962 m² GFA including
- Provision of bicycle parking and 188 car parking spaces.
- Approximately 4,732.2 m² (11.5%) of soft and hard landscaping.
- Provision of internal access vehicle access route and loading docks.
- Construction of a heavy vehicle ramp.
- Upgrades to existing on-site infrastructure.
- Fire suppression infrastructure.

Construction activities associated with the project include:

- Cut and fill to achieve R.L 10
- Construction of the warehouse and distribution centre
- Erosion and sediment control
- Landscaping

1.6. Legislative Context

The report has been prepared considering the provisions of the Cumberland Local Environmental Plan (CLEP) 2021 and the Cumberland Development Control Plan (CDCP) 2021 made pursuant to the State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017 (the VSEPP).

Prescribed trees within the Cumberland Council LGA are protected under Part G7 Section 2.1 of the CDCP made pursuant to Clause 9 of the VSEPP. The CDCP generally protects all trees, palms and vegetation as 'declared vegetation' that meet the following:

- any woody perennial plant that is 4m or greater in height, measured from the base of the tree at ground level to the highest point of live foliage.

Part G7 Section 2.2 outlines the objectives and controls of 'Tree management and proposed development.'

Specific controls relevant to this proposal include:

C1. All proposals and development works shall comply with Australian Standard 4970-2009 'Protection of Trees on Development Sites'.

C2. Development shall be designed to incorporate existing trees that are identified as being suitable for retention, with adequate setbacks to any works and protection measures stipulated in accordance with AS 4970-2009 to ensure their long-term survival.

C3. Development proposals must consider existing trees situated on adjacent properties with adequate setbacks to any works and protection measures stipulated in accordance with AS4970-2009 to ensure their long-term survival.

C6. Trees assessed as having medium or high landscape significance retention value should be retained, with adequate setbacks to any development works to ensure their long-term survival.

2. Scope

Detail the health and condition of site trees and those on adjoining properties that may be affected by the proposed works. This will be undertaken to derive tree retention values within the landscape, based on any heritage, environmental and arboricultural principles.

Provide as an outcome of the assessment, the following:

- a description of the trees
- observations made
- retention values
- discussion of the effects the location of the proposed works may have on the trees
- make recommendations required for remedial or other works to the trees, if and where appropriate
- provide a description of the works or measures required to ameliorate the impact upon the trees to be retained; by the proposed building works or future impacts the trees may have upon the new building works if and where appropriate;
- or discuss the possible benefits of removal and replacement, if appropriate, for the medium to long-term amenity of the site.

3. Method

3.1. Data Collection

Inspected trees have been physically identified with numbered metal tags affixed to the southern side of the tree at approximately 2m above ground level.

To record the above-ground health and condition of each tree, a Visual Tree Assessment (VTA), adapted from (Lonsdale, 1999), was undertaken from ground level on 10 March 2022 by Consulting Arborist Kane Hollstein.

This involved an inspection of:

- Tree health and structural condition; both long and short term
- Site conditions

- Amenity value
- Heritage value
- Habitat value
- Environmental value

All diameter measurements were taken with a diameter tape or forestry callipers where accessible. Where not accessible, diameters were estimated. All height and canopy spread values were estimated. Any offset measurements were measured with a tape measure.

Data was collected using GIS software linked to a Trimble Catalyst DA-2 GPS antenna with 1cm-2cm accuracy in optimal GPS conditions. Where trees were located on survey plans, the locations were corrected using the following parameters:

- Locations were corrected to the most recent survey plan where present.
- Where absent from the most recent survey plan, locations were corrected to the initial survey.
- Where absent from both surveys, the GPS location was used. Using this method; locations may be +/- 1m due to tree canopies and GPS interference.

No foliage or soil samples were taken. No aerial or internal investigations were undertaken.

3.2. Useful Life Expectancy

Estimated remaining Useful Life Expectancy (ULE) has been derived using a modified version of the TreeAZ SULE method (Barrell, 2009). An explanation of the attributes required to achieve each category can be found in Appendix A.

3.3. Retention Value

The trees have been allocated a significance rating determined using the Tree Significance - Assessment Criteria of the IACA Significance of a Tree, Assessment Rating System (STARS)©. An explanation of attributes required to achieve each category can be found in Appendix A.

Tree retention value has been assessed using the Retention Value - Priority Matrix of the IACA Significance of a Tree, Assessment Rating System (STARS) © which is a matrix assessment of landscape significance and estimated Useful Life Expectancy. An explanation of the attributes required to achieve each category can be found in Appendix A.

3.4. Tree Protection Zone and Structural Root Zone

The Tree Protection Zone (TPZ) and Structural Root Zone (SRZ) methods have been derived from the Australian Standard 4970–2009: Protection of Trees on Development Sites (Standards Australia Limited, 2009). The radius of the TPZ is calculated for each tree by multiplying its Diameter at Breast Height (DBH) by 12.

$$\text{TPZ radius} = \text{DBH} \times 12$$

In the event the crown spread of the tree extends beyond this offset, the TPZ may be adjusted to the outer extent of the crown spread.

The SRZ is the area around the base of a tree required for the tree's stability in the ground. The SRZ is nominally circular with the trunk at its centre and is expressed by its radius in metres.

$$\text{SRZ radius} = (\text{D} \times 50)^{0.42} \times 0.64$$

4. Observations

4.1. The Site

The site contains an existing warehouse facility in the centre of the site, that is accessed via a battleaxe driveway from Boorea St. The road surface from Boorea St along the southern and western truck access and loading areas of the site was observed to be of robust construction capable of supporting heavy vehicles. A bitumen car park was located to the north of the site that is accessed via an eastern

The site is interspersed with landscaped areas and a perimeter planting of trees.

The site possessed a relatively flat gradient and a southern aspect.

Site soils are expected to deviate from their natural state due to past development. The site straddles the Blacktown and Blacktown soil landscapes.

4.2. Site Soils

Blacktown Residual Group

The Blacktown Residual group is described as ‘gently undulating rises on Wianamatta Group shales. Local relief to 30 m, slopes usually >5%. Broad rounded crests and ridges with gently inclined slopes. Cleared Eucalypt woodland and tall open-forest (dry sclerophyll forest).’ (Department of Planning, Industry and Environment, 2020)

Soils of the Blacktown landscape are characterised by ‘shallow to moderately deep (>100 cm) hardsetting mottled texture contrast soils, Red and Brown Podzolic Soils (Dr3.21, Dr3.31, Db2.11, Db2.21) on crests grading to Yellow Podzolic Soils (Dy2.11, Dy3.11) on lower slopes and in drainage lines.’ (Department of Planning, Industry and Environment, 2020)

Vegetation of this soil landscape is described as ‘almost completely cleared open-forest and open-woodland (dry sclerophyll forest). The original woodland and open-forest were dominated by *Eucalyptus tereticornis* (forest red gum), *E. crebra* (narrow-leaved ironbark), *E. moluccana* (grey box) and *E. maculata* (spotted gum). Further west near Penrith remnant stands of *E. punctata* (grey gum) occur. Between Liverpool and St Marys, the dominant species are *E. globoidea* (white stringybark) and *E. fibrosa* (broad-leaved ironbark), with *E. longifolia* (woollybutt) as an understorey species. Individual trees or small stands of *E. sideroxylon* (mugga ironbark) are occasionally found on crests.’ (Department of Planning, Industry and Environment, 2020)

Birrong Fluvial Landscape

The Birrong Fluvial soil landscape is described as ‘level to gently undulating alluvial floodplain draining Wianamatta Group shales. Local relief to 5 m, slopes <3%. Broad valley flats. Extensively cleared tall open-forest and woodland.’ (Department of Planning, Industry and Environment, 2020)

Soils of the Birrong Fluvial landscape are characterised by 'deep (>250 cm) Yellow Podzolic Soils (Dy2.42, Dy3.12) and Yellow Solodic Soils (Dy3.42) on older alluvial terraces; deep (>250 cm) Solodic Soils (Dy3.42) and Yellow Solonetz (Dy3.43) on current floodplain.' (Department of Planning, Industry and Environment, 2020)

Vegetation of this soil landscape is described as 'Extensively cleared. Small relict stands of ironbark *Eucalyptus paniculata*, turpentine *Syncarpia glomulifera*, and Sydney blue gum *E. saligna* forest and woodland are present.' (Department of Planning, Industry and Environment, 2020)

4.3. Additional Legislative Protections

The following relevant Government environmental and heritage mapping and overlays have been reviewed (SEED - NSW Government, 2022). Table 3 indicates the presence of the items on site.

Table 3: Mapping Overlays

NSW OEH	Present on Site
Threatened Ecological Communities (TEC) Greater Sydney	N
State Heritage Register	N
DCP/LEP	
Heritage	N
Terrestrial Biodiversity	N
Environmentally Sensitive Land	N

The site and therefore site trees are not subject to any additional environmental or heritage protection.

The 10/50 Vegetation Clearing Scheme was introduced following the devastating 2013 bush fires in which more than 200 properties were destroyed. The entitlement allows landowners within a designated 10/50 vegetation clearing entitlement area to clear trees if any part of the trunk that measures more than 30 centimetres in circumference (around the trunk) at a height of 1.3 metres above the ground, is within 10 metres of the external wall of a building (NSW Rural Fire Service, 2020). This also applies to multi-stemmed trees.

The site is not within a designated 10/50 vegetation clearing entitlement area.

4.4. Summary of Tree Observations

Complete tree attributes and observations can be found in Appendix B - Tree Assessment Schedule.

A total of 322 trees were assessed under 189 tags. Where trees were similar in size, species, location and were of lower significance in the landscape, they were grouped together.

Trees 17 and 189 were located within the adjoining industrial complex to the south.

Inspected site vegetation consisted of a mix of locally indigenous, native and exotic tree species. All trees appeared to have been planted at the time of initial site development or in the interim, or have self-sown.

Aside from trees 1-5, all other site trees were obscured from view from the road by buildings and other vegetation from surrounding properties.

Table 4 summarises the mix of species.

Table 4: Tree Species Summary

Botanical Name	Total
<i>Acacia decurrens</i>	1
<i>Angophora costata</i>	2
<i>Angophora floribunda</i>	1
<i>Callistemon citrinus</i>	7
<i>Callistemon salignus</i>	1
<i>Callistemon viminalis</i>	33
<i>Casuarina cunninghamiana</i>	12
<i>Casuarina glauca</i>	19
<i>Cinnamomum camphora</i>	1
<i>Corymbia citriodora</i>	25
<i>Corymbia maculata</i>	1
<i>Dead tree</i>	2
<i>Eucalyptus bicostata</i>	1
<i>Eucalyptus grandis</i>	3
<i>Eucalyptus microcorys</i>	22
<i>Eucalyptus nicholii</i>	2
<i>Eucalyptus sp.</i>	1
<i>Eucalyptus tereticornis</i>	3
<i>Fraxinus griffithii</i>	28
<i>Grevillea baileyana</i>	1
<i>Grevillea cvr.</i>	3
<i>Melaleuca bracteata</i>	7
<i>Melaleuca quinquenervia</i>	1
<i>Melaleuca styphelioides</i>	6
<i>Melia azedarach</i>	4
<i>Phoenix canariensis</i>	1
<i>Schinus areira</i>	1
Grand Total	189

Table 5 summarises total trees by origin.

Table 5: Tree Origin Summary

<i>Origin</i>	Total
Exotic	31
Indigenous	40
N/A	2
Native	116
Grand Total	189

No trees were observed to possess hollow-bearing parts capable of supporting large fauna.

Table 6 summarises the trees legislated protection status under the CDCP. This assessment considers the size of the tree as being either less than 4m in height or exempt due to their species.

Table 6: Tree Legislated Protection Status

DCP Status	No. of trees	Tree Numbers
Protected	173	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 30 31 32 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 51 52 53 54 55 56 57 58 61 62 63 64 65 66 67 68 69 70 71 72 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 114 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 134 135 136 137 138 139 140 141 142
Exempt	16	29 33 34 50 59 60 73 94 95 113 115 116 117 133 159 160
Total	189	

4.5. Tree Significance

Tree significance has been determined using the Tree Significance - Assessment Criteria of the IACA Significance of a Tree, Assessment Rating System (STARS)© (IACA, 2010).

Trees 1, 6, 7, 10, 17, 30, 32, 39, 40, 47, 76, 77, 85, 129, 140, 157, 163, 166, 187 and 188 were determined to possess a High Landscape Significance Rating due to them being:

- in good condition and good vigour;
- having a form typical for the species;
- a remnant or is a planted locally indigenous specimen and/or is rare or uncommon in the local area or of botanical interest or of substantial age;

- visually prominent and visible from a considerable distance when viewed from most directions within the landscape due to its size and scale and makes a positive contribution to the local amenity;

Table 7: Landscape Significance Rating

Landscape Value	No. of trees	Tree Numbers
1 (High)	20	1 6 7 10 17 30 32 39 40 47 76 77 85 129 140 157 163 166 187 188
2 (Medium)	70	8 13 14 15 18 19 25 35 37 38 42 45 46 49 51 52 53 54 59 63 67 69 70 72 75 81 82 83 84 87 88 89 90 92 93 97 98 99 100 119 121 122 123 128 130 131 132 134 135 136 137 138 139 141 142 143 145 146 147 148 151 164 165 170 171 172 179 180 181 186
3 (Low)	89	2 3 4 5 9 11 12 16 20 21 22 23 24 26 27 28 31 34 36 43 44 48 50 55 56 61 62 64 65 66 68 71 74 78 79 80 86 91 94 95 96 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 120 124 125 126 127 144 149 150 152 153 154 155 156 158 159 160 161 162 167 168 169 173 174 175 176 177 178 182 184 189
4 (Environmental Pest / Noxious Weed)	1	33
5 (Hazardous / Irreversible Decline)	9	29 41 57 58 60 73 133 183 185
Total	189	

4.6. Retention Value

Determined using the Retention Value - Priority Matrix of the *IACA Significance of a Tree, Assessment Rating System (STARS)* © (IACA, 2010) which is a matrix assessment of landscape significance and estimated Useful Life Expectancy. Tree retention values are summarised in Table 8.

Table 8: Retention Value

Retention Value	No. of trees	Tree Numbers
High - Priority for Retention	21	1 6 7 10 17 30 32 39 40 45 47 72 76 77 85 129 140 163 166 187 188
Medium - Consider for Retention	62	13 14 18 35 37 38 42 46 49 51 53 54 59 64 67 69 70 74 75 81 82 83 84 87 90 93 99 100 119 121 122 128 130 131 132 134 135 136 137 138 139 141 142 145 146 147 148 151 158 164 165 167 168 169 170 171 172 174 175 179 181 184
Low - Consider for Removal	82	2 3 4 5 9 11 12 15 16 19 21 25 26 34 36 43 44 48 50 55 56 61 62 63 65 66 68 78 79 80 86 88 89 91 92 94 95 96 97 98 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 120 123 124 125 126 127 143 144 149 150 152 153 154 157 159 160 161 162 173 178 180 182 186 189
Priority for Removal	24	8 20 22 23 24 27 28 29 31 33 41 52 57 58 60 71 73 133 155 156 176 177 183 185
Total	189	

Arboricultural Impact Assessment

Proposed Industrial Development
42 Boorea St, Lidcombe NSW 2141



Legend

- | | |
|--|---|
| Study Area | TPZ |
| ● High - Priority for Retention | ● Low - Consider for Removal |
| ● Low - Consider for Removal | ● Priority for Removal |
| ● Priority for Removal | SRZ |



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Legend

Study Area

Retention Value

High - Priority for Retention

Medium - Consider for Retention

Low - Consider for Removal

Priority for Removal

TPZ

High - Priority for Retention

Medium - Consider for Retention

Low - Consider for Removal

Priority for Removal

SRZ



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Legend

Study Area

Retention Value

High - Priority for Retention

Medium - Consider for Retention

Low - Consider for Removal

Priority for Removal

TPZ

High - Priority for Retention

Medium - Consider for Retention

Low - Consider for Removal

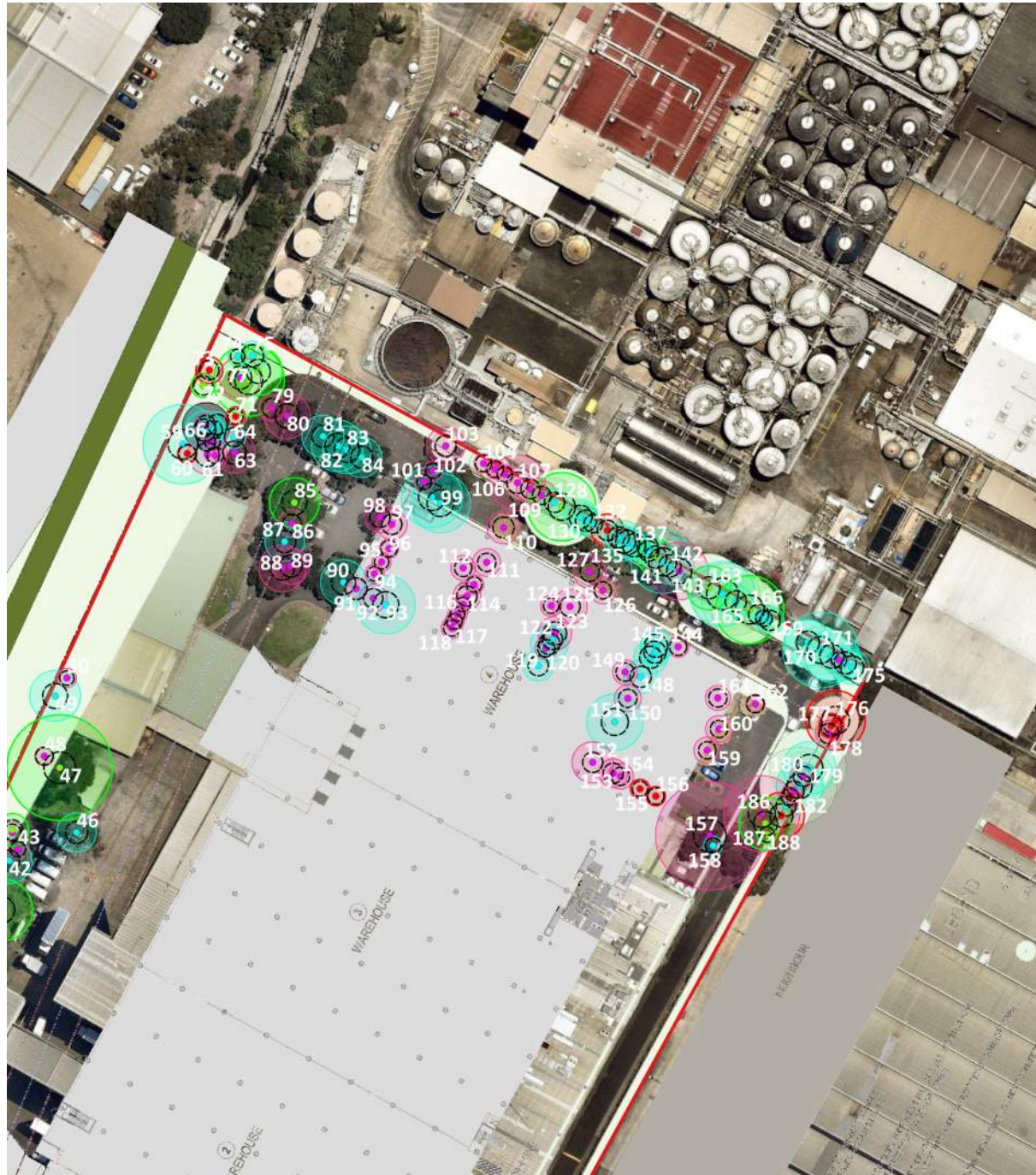
Priority for Removal

SRZ



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Legend

Study Area

Retention Value

- High - Priority for Retention
- Medium - Consider for Retention
- Low - Consider for Removal
- Priority for Removal

TPZ

- High - Priority for Retention
- Medium - Consider for Retention
- Low - Consider for Removal
- Priority for Removal
- Low - Consider for Removal
- SRZ



5. Discussion

5.1. Tree Protection Zone (TPZ)

The Tree Protection Zone (TPZ) is a radial distance measured from the centre of the trunk. Application of the TPZ is intended to ensure the protection of the root system and canopy from potential damage incurred from construction works and ensure the long-term health, stability and landscape viability of each tree to be retained.

Incursions into the TPZ may occur due to excavation, modification of existing ground levels, trenching or inverting the soil profile. Such works may damage part or all of the root system or affect soil structure and growing conditions required for long-term growth.

5.2. Structural Root Zone (SRZ)

The Structural Root Zone (SRZ) is the area required for mechanical support and anchorage of a tree. The woody root growth and soil cohesion in this area are required to hold a tree upright.

Incursions into the SRZ are not recommended as they are likely to result in loss or damage to woody roots which may significantly affect stability. However, fully elevated, pier and beam type construction or hand-dug services are possible within the SRZ.

5.3. Acceptable Encroachments into the TPZ

An encroachment of less than 10% of the entire TPZ is considered minor provided it is outside the SRZ and the area lost is compensated for elsewhere and contiguous to the TPZ.

A major encroachment is considered to be greater than 10% of the entire TPZ area. Where unavoidable, exploratory excavation using non-destructive methods such as pneumatic, hydraulic or hand digging may be required to evaluate the extent of potential damage to the root system and determine whether the tree(s) will remain viable. The area lost to encroachment should be compensated for elsewhere and contiguous to the TPZ.

Additional encroachments within the TPZ are acceptable, provided the arborist can demonstrate the tree(s) will remain viable.

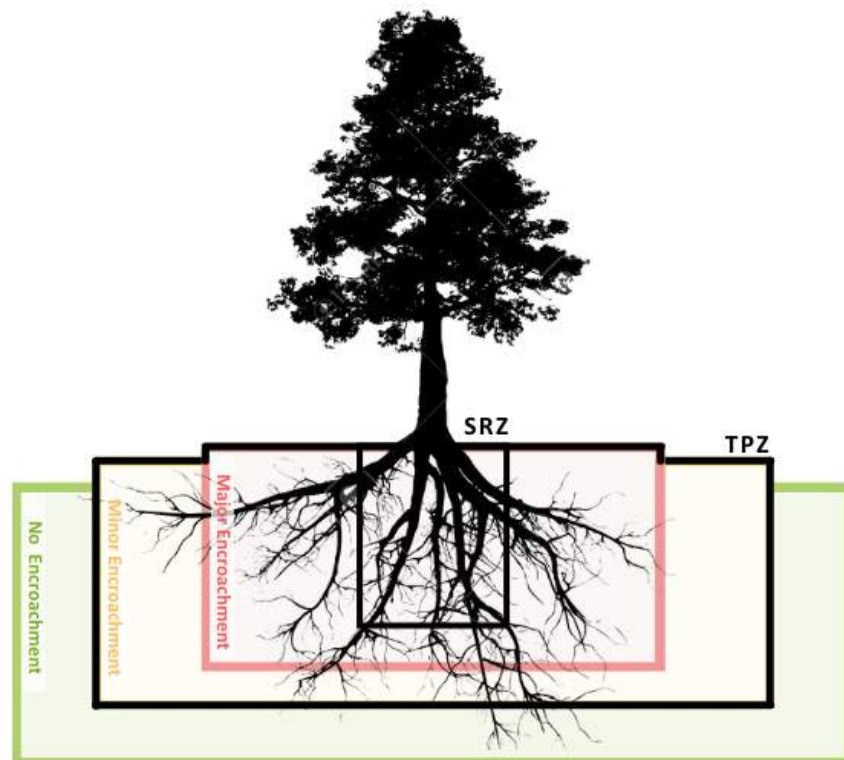


Figure 2: Indicative zones of TPZ and SRZ encroachment.

5.4. Impact Assessment

The following criteria have been considered to determine the impact to site trees that may occur due to the proposed development:

- Existing ground levels (R.L)
- Footprint of the proposed development, temporary structures, and laydown areas.
- Extent of the TPZ/SRZ
- Incursion into the TPZ including any cut, fill, benching and shoring activities beyond the development footprint.
- Incursions to the tree canopy from the building or temporary structures (scaffolding)
- Existing site and soil conditions

Table 9 summarises the encroachment type and retention value of trees impacted by the proposed development.

Table 9: Recommendation, TPZ Encroachment Type & Retention Value

Recommendation	Encroachment Type	Retention Value				Grand Total
		High - Priority for Retention	Medium - Consider for Retention	Low - Consider for Removal	Priority for Removal	
Remove	Major	19	43	76	23	161
	Minor		1		1	2
Remove Total		19	44	76	24	163
Retain	Major	1	3			4
	Minor	1	4	2		7
	Nil		11	4		15
Retain Total		2	18	6		26
Grand Total		21	62	82	24	189

A total of 294 trees combined under 161 tags have major, unmitigable encroachments into their TPZ and SRZ for the proposed driveway, civil and warehouse footprint and require removal to facilitate the proposed development. These include 2 trees within the adjoining industrial complex to the south. Of these:

- 19 are High Retention Value
- 43 are Medium Retention Value
- 76 are Low Retention Value
- 23 are a Priority for Removal

A total of 4 trees have TPZ encroachments that marginally exceed a major encroachment by less than 5%. These trees can potentially be retained pending root mapping and the use of tree sensitive construction techniques.

A total of 9 trees have minor TPZ encroachments. Of these:

- Tree 128 (Medium Retention Value) has a minor TPZ encroachment but is suppressed by adjacent larger trees and will likely become destabilised once these trees are removed. This tree, therefore, requires removal.
- Tree 133 is dead and recommended for removal irrespective of the proposed development.
- The remaining 7 trees can be retained as the area lost to encroachment can be offset contiguous to the TPZ.

A total of 15 trees have no direct TPZ encroachment and can be retained provided tree protection measures are installed and maintained for the duration of the project.

The proposed development would therefore see the removal of a total of 296 trees and the retention of 26.

The impacts of the project are shown in Table 10.

Table 10: Impact Assessment

Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
1	High - Priority for Retention	TPZ/SRZ encroachment for driveway expansion	70%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
2	Low - Consider for Removal		66%	Major		Remove	
3	Low - Consider for Removal		68%	Major		Remove	
4	Low - Consider for Removal		63%	Major		Remove	
5	Low - Consider for Removal		68%	Major		Remove	
6	High - Priority for Retention		75%	Major		Remove	
7	High - Priority for Retention		97%	Major		Remove	
8	Priority for Removal		71%	Major		Remove	
9	Low - Consider for Removal		100%	Major		Remove	
10	High -		69%	Major		Remove	

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
	Priority for Retention						
11	Low - Consider for Removal	Tree within development footprint	100%	Major		Remove	
12	Low - Consider for Removal	TPZ/SRZ encroachment for driveway and civil works	100%	Major		Remove	
13	Medium - Consider for Retention		84%	Major		Remove	
14	Medium - Consider for Retention		87%	Major		Remove	
15	Low - Consider for Removal		62%	Major		Remove	
16	Low - Consider for Removal		92%	Major		Remove	
17	High - Priority for Retention		45%	Major		Remove	
18	Medium - Consider for Retention		72%	Major		Remove	
19	Low - Consider for Removal		100%	Major		Remove	
20	Priority for		100%	Major		Remove	

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
	Removal						
21	Low - Consider for Removal		100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
22	Priority for Removal		100%	Major		Remove	
23	Priority for Removal		100%	Major		Remove	
24	Priority for Removal		100%	Major		Remove	
25	Low - Consider for Removal		100%	Major		Remove	
26	Low - Consider for Removal		100%	Major		Remove	
27	Priority for Removal		98%	Major		Remove	
28	Priority for Removal		70%	Major		Remove	
29	Priority for Removal		100%	Major		Remove	
30	High - Priority for Retention		94%	Major		Remove	
31	Priority for Removal		100%	Major		Remove	
32	High - Priority for Retention		85%	Major		Remove	

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
33	Priority for Removal	TPZ/SRZ encroachment for driveway expansion	62%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
34	Low - Consider for Removal		62%	Major		Remove	
35	Medium - Consider for Retention		100%	Major		Remove	
36	Low - Consider for Removal		100%	Major		Remove	
37	Medium - Consider for Retention		83%	Major		Remove	
38	Medium - Consider for Retention		100%	Major		Remove	
39	High - Priority for Retention		100%	Major		Remove	
40	High - Priority for Retention		100%	Major		Remove	
41	Priority for Removal		100%	Major		Remove	
42	Medium - Consider for Retention		100%	Major		Remove	
43	Low - Consider for		100%	Major		Remove	

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
	Removal						
44	Low - Consider for Removal		100%	Major		Remove	
45	High - Priority for Retention		100%	Major		Remove	
46	Medium - Consider for Retention		100%	Major		Remove	
47	High - Priority for Retention		93%	Major		Remove	
48	Low - Consider for Removal		100%	Major		Remove	
49	Medium - Consider for Retention		65%	Major		Remove	
50	Low - Consider for Removal		100%	Major		Remove	
51	Medium - Consider for Retention		100%	Major		Remove	
52	Priority for Removal		100%	Major		Remove	
53	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
54	Medium - Consider for Retention		100%	Major		Remove	
55	Low - Consider for Removal		100%	Major		Remove	
56	Low - Consider for Removal		100%	Major		Remove	
57	Priority for Removal	TPZ/SRZ encroachment for driveway expansion	38%	Major		Remove	
58	Priority for Removal		49%	Major		Remove	
59	Medium - Consider for Retention	Tree within sprinkler tank footprint	75%	Major		Remove	
60	Priority for Removal		100%	Major		Remove	
61	Low - Consider for Removal		100%	Major		Remove	
62	Low - Consider for Removal		100%	Major		Remove	
63	Low - Consider for Removal	Tree within sprinkler tank footprint and driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
64	Medium - Consider for Retention		100%	Major		Remove	

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
65	Low - Consider for Removal	Tree within sprinkler tank footprint	100%	Major		Remove	
66	Low - Consider for Removal		100%	Major		Remove	
67	Medium - Consider for Retention		100%	Major		Remove	
68	Low - Consider for Removal		100%	Major		Remove	
69	Medium - Consider for Retention		100%	Major		Remove	
70	Medium - Consider for Retention		100%	Major		Remove	
71	Priority for Removal		100%	Major		Remove	
72	High - Priority for Retention	TPZ/SRZ encroachment for fill required to increase R.L	96%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
73	Priority for Removal		90%	Major		Remove	
74	Medium - Consider for Retention		100%	Major		Remove	
75	Medium - Consider for		100%	Major		Remove	

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
	Retention						
76	High - Priority for Retention	TPZ/SRZ encroachment for fill required to increase R.L. Within pump room footprint	100%	Major		Remove	
77	High - Priority for Retention		100%	Major		Remove	
78	Low - Consider for Removal		100%	Major		Remove	
79	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	100%	Major		Remove	
80	Low - Consider for Removal		100%	Major		Remove	
81	Medium - Consider for Retention		100%	Major		Remove	
82	Medium - Consider for Retention		100%	Major		Remove	
83	Medium - Consider for Retention		100%	Major		Remove	
84	Medium - Consider for Retention		100%	Major		Remove	
85	High - Priority for		100%	Major		Remove	

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
	Retention						
86	Low - Consider for Removal		100%	Major		Remove	
87	Medium - Consider for Retention		100%	Major		Remove	
88	Low - Consider for Removal		100%	Major		Remove	
89	Low - Consider for Removal		100%	Major		Remove	
90	Medium - Consider for Retention		100%	Major		Remove	
91	Low - Consider for Removal		100%	Major		Remove	
92	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
93	Medium - Consider for Retention		100%	Major		Remove	
94	Low - Consider for Removal		100%	Major		Remove	
95	Low - Consider for		100%	Major		Remove	

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
	Removal						
96	Low - Consider for Removal		100%	Major		Remove	
97	Low - Consider for Removal		100%	Major		Remove	
98	Low - Consider for Removal		100%	Major		Remove	
99	Medium - Consider for Retention		100%	Major		Remove	
100	Medium - Consider for Retention		100%	Major		Remove	
101	Low - Consider for Removal		100%	Major		Remove	
102	Low - Consider for Removal	Within driveway footprint	100%	Major		Remove	
103	Low - Consider for Removal	R.L change and retaining wall within TPZ/SRZ	39%	Major		Remove	
104	Low - Consider for Removal	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
105	Low - Consider for		0%	Nil		Retain	Tree Protection Fencing

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
	Removal						
106	Low - Consider for Removal		0%	Nil		Retain	Tree Protection Fencing
107	Low - Consider for Removal	R.L change and retaining wall within TPZ/SRZ	26%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
108	Low - Consider for Removal		3%	Minor	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
109	Low - Consider for Removal		5%	Minor	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
110	Low - Consider for Removal	Within driveway footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
111	Low - Consider for Removal		100%	Major		Remove	
112	Low - Consider for Removal		100%	Major		Remove	
113	Low - Consider for Removal		100%	Major		Remove	
114	Low - Consider for Removal		100%	Major		Remove	
115	Low - Consider for		100%	Major		Remove	

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
	Removal						
116	Low - Consider for Removal		100%	Major		Remove	
117	Low - Consider for Removal		100%	Major		Remove	
118	Low - Consider for Removal		100%	Major		Remove	
119	Medium - Consider for Retention		100%	Major		Remove	
120	Low - Consider for Removal		100%	Major		Remove	
121	Medium - Consider for Retention		100%	Major		Remove	
122	Medium - Consider for Retention		100%	Major		Remove	
123	Low - Consider for Removal		100%	Major		Remove	
124	Low - Consider for Removal		100%	Major		Remove	
125	Low - Consider for		100%	Major		Remove	

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
	Removal						
126	Low - Consider for Removal		100%	Major		Remove	
127	Low - Consider for Removal		100%	Major		Remove	
128	Medium - Consider for Retention	R.L change and retaining wall within TPZ	3%	Minor	Tree is suppressed and likely reliant of larger adjacent trees for mutual shelter. Tree will become unstable following removal of adjacent trees.	Remove	
129	High - Priority for Retention		28%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
130	Medium - Consider for Retention		7%	Minor	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
131	Medium - Consider for Retention		5%	Minor		Retain	Tree Protection Fencing
132	Medium - Consider for Retention	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
133	Priority for Removal	Dead tree that should be removed irrespective of the development	3%	Minor	Remove tree irrespective of development	Remove	
134	Medium - Consider for Retention	R.L change and retaining wall within TPZ	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
135	Medium - Consider for		12%	Major	Tree likely viable for retention due to borderline major encroachment	Retain	Root mapping and tree sensitive

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
	Retention						construction techniques
136	Medium - Consider for Retention		3%	Minor		Retain	Tree Protection Fencing
137	Medium - Consider for Retention		0%	Nil		Retain	Tree Protection Fencing
138	Medium - Consider for Retention		0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
139	Medium - Consider for Retention		0%	Nil		Retain	Tree Protection Fencing
140	High - Priority for Retention		5%	Minor		Retain	Tree Protection Fencing
141	Medium - Consider for Retention		23%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
142	Medium - Consider for Retention		6%	Minor	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
143	Low - Consider for Removal		20%	Major		Remove	
144	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
145	Medium - Consider for Retention		100%	Major		Remove	
146	Medium - Consider for Retention		100%	Major		Remove	
147	Medium - Consider for Retention		100%	Major		Remove	
148	Medium - Consider for Retention		100%	Major		Remove	
149	Low - Consider for Removal		100%	Major		Remove	
150	Low - Consider for Removal		100%	Major		Remove	
151	Medium - Consider for Retention		100%	Major		Remove	
152	Low - Consider for Removal		100%	Major		Remove	
153	Low - Consider for Removal		100%	Major		Remove	
154	Low - Consider for Removal		100%	Major		Remove	

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
155	Priority for Removal		100%	Major		Remove	
156	Priority for Removal		100%	Major		Remove	
157	Low - Consider for Removal		99%	Major		Remove	
158	Medium - Consider for Retention		100%	Major		Remove	
159	Low - Consider for Removal		100%	Major		Remove	
160	Low - Consider for Removal		100%	Major		Remove	
161	Low - Consider for Removal		100%	Major		Remove	
162	Low - Consider for Removal	Within carpark footprint	100%	Major		Remove	
163	High - Priority for Retention	R.L change and retaining wall within TPZ/SRZ	12%	Major	Tree may be viable for retention due to marginal major encroachment	Retain	Root mapping and tree sensitive construction techniques
164	Medium - Consider for Retention		20%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
165	Medium - Consider for Retention	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
166	High - Priority for Retention	R.L change and retaining wall within TPZ/SRZ	22%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
167	Medium - Consider for Retention	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
168	Medium - Consider for Retention		0%	Nil		Retain	Tree Protection Fencing
169	Medium - Consider for Retention		0%	Nil		Retain	Tree Protection Fencing
170	Medium - Consider for Retention	R.L change and retaining wall within TPZ/SRZ	10%	Major	Tree may be viable for retention due to marginal major encroachment	Retain	Root mapping and tree sensitive construction techniques
171	Medium - Consider for Retention		24%	Major	Tree not viable for retention due to level of and type of encroachment	Remove	
172	Medium - Consider for Retention		13%	Major	Tree may be viable for retention due to marginal major encroachment	Retain	Root mapping and tree sensitive construction techniques
173	Low - Consider for Removal	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
174	Medium - Consider for Retention	R.L change and retaining wall within TPZ/SRZ	0%	Nil	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Retain	Tree Protection Fencing
175	Medium - Consider for Retention		0%	Nil		Retain	Tree Protection Fencing
176	Priority for Removal		41%	Major		Remove	
177	Priority for Removal		39%	Major		Remove	
178	Low - Consider for Removal		32%	Major		Remove	
179	Medium - Consider for Retention		42%	Major		Remove	
180	Low - Consider for Removal		39%	Major		Remove	
181	Medium - Consider for Retention		40%	Major		Remove	
182	Low - Consider for Removal		43%	Major		Remove	
183	Priority for Removal		48%	Major		Remove	
184	Medium - Consider for Retention		44%	Major		Remove	

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Tree no.	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
185	Priority for Removal		45%	Major		Remove	
186	Low - Consider for Removal		76%	Major		Remove	
187	High - Priority for Retention		69%	Major		Remove	
188	High - Priority for Retention		60%	Major		Remove	
189	Low - Consider for Removal		45%	Major		Remove	

5.5. Impact Mitigation Measures

TPZ encroachments should be offset and mitigated using a range of possible measures to ensure impacts are minimised and therefore trees remain viable post-construction. Mitigation measures should be increased relative to the level of encroachment within the TPZ.

AS 4970-2009 outlines the types of TPZ encroachment and mitigation measures required to ensure long term viability which is summarised in Table 11. These measures are only required if a tree is to be retained.

Table 11: Mitigation Measures

Encroachment Type	Mitigation Measures
Nil	<ul style="list-style-type: none">Where indirect or inadvertent encroachments may occur due to haul routes or machinery movement tree protection should be installed.
Minor	<ul style="list-style-type: none">The area lost to encroachment must be offset elsewhere and contiguous to the TPZ.Detailed root investigations should not be required.Tree protection must be installed and maintained.
Major	<ul style="list-style-type: none">The Project Arborist must demonstrate the tree(s) will remain viable.Root investigations using non-destructive methods may be required to clarify or confirm the impacts to trees to be retained.The area lost to encroachment must be offset elsewhere and contiguous to the TPZ.All works and excavations within the TPZ must be supervised by the Project Arborist.Tree protection must be installed and maintained for the duration of the project.Additional measures such as mulching or temporary irrigation may be required.

6. Recommendations

6.1. Tree Retention and Removal

Table 12 summarises tree removal and retention. 296 trees grouped under 163 tags require removal to facilitate the proposed development.

Table 12: Tree Retention and Removal

Recommendation	No. of tree	Tree Numbers
Remove	163	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 107 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 133 141 143 144
Retain	26	104 105 106 108 109 130 131 132 134 135 136 137 138 139 140 142 163 165 167 168 169 170 172 173 174 175
Total	189	

6.2. Specific Tree Protection Measures

Table 13 shows specific tree protection measures that are required to ensure the trees nominated for retention remain viable post-construction. These measures are to be read in conjunction with Appendix C – Tree Protection Management Plan (TPMP). The TPMP indicates the position of tree protection devices and other measures to ensure the protection of trees within the site to be retained as part of the proposed development.

Table 13: Specific Tree Protection Measures

Specific Recommendation	No. of tree	Tree Numbers
Tree Protection Fencing	22	104 105 106 108 109 130 131 132 134 136 137 138 139 140 142 165 167 168 169 173 174 175
Root mapping and tree sensitive construction techniques and tree protection fencing	4	135 163 170 172
Total	26	

7. References

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8. Appendix A - IACA Significance of a Tree, Assessment Rating System (STARS) ©

Tree Landscape Significance - Assessment Criteria

1. High Significance in landscape	2. Medium Significance in landscape	3. Low Significance in landscape
<p>The tree is in good condition and good vigour;</p> <p>The tree has a form typical for the species;</p> <p>The tree is a remnant or is a planted locally indigenous specimen and/or is rare or uncommon in the local area or of botanical interest or of substantial age;</p> <p>The tree is listed as a Heritage Item, Threatened Species or part of an Endangered ecological community or listed on Councils significant Tree Register;</p> <p>The tree is visually prominent and visible from a considerable distance when viewed from most directions within the landscape due to its size and scale and makes a positive contribution to the local amenity;</p> <p>The tree supports social and cultural sentiments or spiritual associations, reflected by the broader population or community group or has commemorative values;</p> <p>The tree's growth is unrestricted by above and below ground influences, supporting its ability to reach dimensions typical for the taxa <i>in situ</i> - tree is appropriate to the site conditions.</p>	<p>The tree is in fair-good condition and good or low vigour;</p> <p>The tree has form typical or atypical of the species;</p> <p>The tree is a planted locally indigenous or a common species with its taxa commonly planted in the local area</p> <p>The tree is visible from surrounding properties, although not visually prominent as partially obstructed by other vegetation or buildings when viewed from the street,</p> <p>The tree provides a fair contribution to the visual character and amenity of the local area,</p> <p>The tree's growth is moderately restricted by above or below ground influences, reducing its ability to reach dimensions typical for the taxa <i>in situ</i>.</p>	<p>The tree is in fair-poor condition and good or low vigour;</p> <p>The tree has form atypical of the species;</p> <p>The tree is not visible or is partly visible from surrounding properties as obstructed by other vegetation or buildings,</p> <p>The tree provides a minor contribution or has a negative impact on the visual character and amenity of the local area,</p> <p>The tree is a young specimen which may or may not have reached dimension to be protected by local Tree Preservation orders or similar protection mechanisms and can easily be replaced with a suitable specimen,</p> <p>The tree's growth is severely restricted by above or below ground influences, unlikely to reach dimensions typical for the taxa <i>in situ</i> - tree is inappropriate to the site conditions,</p> <p>The tree is listed as exempt under the provisions of the local Council Tree Preservation Order or similar protection mechanisms,</p> <p>The tree has a wound or defect that has potential to become structurally unsound.</p> <p>Environmental Pest / Noxious Weed Species</p> <p>The tree is an Environmental Pest Species due to its invasiveness or poisonous/ allergenic properties,</p> <p>The tree is a declared noxious weed by legislation.</p> <p>Hazardous/Irreversible Decline</p> <p>The tree is structurally unsound and/or unstable and is considered potentially dangerous,</p> <p>The tree is dead, or is in irreversible decline, or has the potential to fail or collapse in full or part in the immediate to short term.</p>

The tree is to have a minimum of three (3) criteria in a category to be classified in that group. Note: The assessment criteria are for individual trees only, however, can be applied to a monocultural stand in its entirety

e.g. hedge.

Estimated Life Expectancy

1. Long	2. Medium	3. Short	4. Remove
<p>Trees that appear to be retainable with an acceptable level of risk for more than 40 years.</p> <p>Structurally sound trees located in positions that can accommodate future growth.</p> <p>Storm damaged or defective trees that could be made suitable for retention in the long term by remedial tree surgery.</p> <p>Trees of special significance for historical, commemorative, or rarity reasons that would warrant extraordinary efforts to secure their long-term retention.</p>	<p>Trees that appear to be retainable with an acceptable level of risk for 15-40 years.</p> <p>Trees that may only live between 15 and 40 more years.</p> <p>Trees that may live for more than 40 years but would be removed to allow the safe development of more suitable individuals.</p> <p>Trees that may live for more than 40 years but would be removed during the course of normal management for safety or nuisance reasons.</p> <p>Storm damaged or defective trees that require substantial remedial work to make safe and are only suitable for retention in the short term.</p>	<p>Trees that appear to be retainable with an acceptable level of risk for 5-15 years.</p> <p>Trees that may only live between 5 and 15 more years.</p> <p>Trees that may live for more than 15 years but would be removed to allow the safe development of more suitable individuals.</p> <p>Trees that may live for more than 15 years but would be removed during the course of normal management for safety or nuisance reasons.</p> <p>Storm damaged or defective trees that require substantial remedial work to make safe and are only suitable for retention in the short term.</p>	<p>Trees with a high level of risk that would need removing within the next 5 years.</p> <p>Dead trees.</p> <p>Trees that should be removed within the next 5 years.</p> <p>Dying or suppressed or declining trees through disease or inhospitable conditions.</p> <p>Dangerous trees through instability or recent loss of adjacent trees.</p> <p>Dangerous trees through structural defects, including cavities, decay, included bark, wounds, or poor form.</p> <p>Damaged trees that were considered unsafe to retain.</p> <p>Trees that could live for more than 5 years but may be removed to prevent interference with more suitable individuals or to provide space for new planting.</p> <p>Trees that will become dangerous after removal of trees for other reasons.</p>

Tree Retention Value – Priority Matrix

		Landscape Significance Rating				
		1 (High)	2 (Medium)	3 (Low)	4 (Environmental Pest / Noxious Weed)	5 (Hazardous / Irreversible Decline)
Estimated Life Expectancy	Long (>40)	High - Priority for Retention	High - Priority for Retention	Medium - Consider for Retention	Low - Consider for Removal	Priority for Removal
	Medium (15-40)	High - Priority for Retention	Medium - Consider for Retention	Medium - Consider for Retention Low - Consider for Removal	Low - Consider for Removal	Priority for Removal
	Short (5-15)	Low - Consider for Removal	Low - Consider for Removal	Low - Consider for Removal	Priority for Removal	Priority for Removal
	Dead Or Hazardous (0-5)	Low - Consider for Removal	Priority for Removal	Priority for Removal	Priority for Removal	Priority for Removal

Legend for Matrix Assessment

High - Priority for Retention	These trees are considered important for retention and should be retained and protected. Design modification or re-location of buildings should be considered to accommodate the setbacks as prescribed by the Australian Standard AS4970 <i>Protection of trees on development sites</i> . Tree sensitive construction must be implemented e.g. pier and beam, etc if works are to proceed within the Tree Protection Zone
Medium - Consider for Retention	These trees may be retained and protected. These are considered less critical; however their retention should remain a priority with removal considered only if adversely affecting the proposed building/works and all other alternatives have been considered exhausted.
Low - Consider for Removal	These trees are not important for retention, nor require special works or design modification to be implemented for their retention.
Priority for Removal	These trees are considered hazardous, or in irreversible decline, or weeds and should be removed irrespective of development.

9. Appendix B - Tree Assessment Schedule

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
1	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	50	57	6.0	2.6	18	11	Good	Good	Mature	Long (>40)			Protected	Native	1 (High)	High - Priority for Retention	TPZ/SRZ encroachment for driveway expansion	70%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
2	<i>Callistemon citrinus</i>	Crimson Bottlebrush	3	10	13	2.0	1.5	3	2	Good	Good	Semi-mature	Medium (15-40)		Group of 3 small trees.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	66%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
3	<i>Callistemon citrinus</i>	Crimson Bottlebrush	20	24.08	40	2.9	2.3	5	3	Good	Fair	Mature	Short (5-15)	Co-dominant stems, Included bark	Group of 2 screening trees along boundary.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	68%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
4	<i>Callistemon citrinus</i>	Crimson Bottlebrush	20	24.08	23	2.9	1.8	5	3	Good	Fair	Mature	Short (5-15)	Co-dominant stems, Included bark	Group of 20 screening trees along boundary.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	63%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
5	<i>Callistemon citrinus</i>	Crimson Bottlebrush	16	16	26	2.0	1.9	5	3	Good	Fair	Mature	Short (5-15)	Co-dominant stems, Included bark	Group of 16 small screen trees along boundary.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	68%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
6	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	49	58	5.9	2.6	14	10	Good	Good	Mature	Long (>40)	Deadwood minor (<3cm diameter)		Protected	Native	1 (High)	High - Priority for Retention	TPZ/SRZ encroachment for driveway expansion	75%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
7	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	43	53	5.2	2.5	16	12	Good	Good	Mature	Long (>40)	Deadwood moderate (3-10cm diameter), Previous failure(s)		Protected	Native	1 (High)	High - Priority for Retention	TPZ/SRZ encroachment for driveway expansion	97%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
8	<i>Eucalyptus nicholii</i>	Narrow Leaved Peppermint	1	40	45	4.8	2.4	7	8	Good	Poor	Mature	Dead Or Hazardous/Rem ove (0-5)	Epicormic shoots, Poor pruning, Suppressed	Highly asymmetrical crown due to phototrophic growth. Previously lopped for powerline clearance.	Protected	Native	2 (Medium)	Priority for Removal	TPZ/SRZ encroachment for driveway and civil works	71%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
9	<i>Grevillea cvr.</i>	Grevillea Cultivar	1	10	18	2.0	1.6	3	3	Good	Good	Mature	Short (5-15)	Previous failure(s), Wound(s)		Protected	Native	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway and civil works	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
10	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	42	55	5.0	2.6	15	13	Good	Fair	Semi-mature	Medium (15-40)	Poor pruning, Wound(s)	Corwin over southern building previously lopped.	Protected	Native	1 (High)	High - Priority for Retention	TPZ/SRZ encroachment for driveway and civil works	69%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
11	<i>Callistemon viminalis</i>	Weeping Bottlebrush	3	24.21	30	2.9	2.0	5	4	Good	Good	Semi-mature	Short (5-15)		Group of 3 Callistemon in garden bed.	Protected	Native	3 (Low)	Low - Consider for Removal	Tree within development footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
12	<i>Callistemon citrinus</i>	Crimson Bottlebrush	5	9	14	2.0	1.5	3	2	Good	Good	Semi-mature	Medium (15-40)		Group of 5 small trees.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway and civil works	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
13	<i>Angophora costata</i>	Sydney Red Gum, Smooth-barked Apple	1	24	28	2.9	1.9	10	6	Good	Good	Semi-mature	Medium (15-40)	Resin/kino/sap flow		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ/SRZ encroachment for driveway and civil works	84%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
14	<i>Angophora costata</i>	Sydney Red Gum, Smooth-barked Apple	1	23	27	2.8	1.9	10	5	Good	Good	Semi-mature	Medium (15-40)			Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ/SRZ encroachment for driveway and civil works	87%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
15	<i>Eucalyptus microcorys</i>	Tallowood	1	62	87	7.4	3.1	17	13	Fair	Fair	Mature	Short (5-15)	Deadwood major (>10cm diameter), Dieback, Epicormic shoots	Significant dieback in the upper crown.	Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway and civil works	62%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
16	<i>Callistemon citrinus</i>	Crimson Bottlebrush	18	16.28	43	2.0	2.3	5	2	Good	Good	Semi-mature	Medium (15-40)		Group of 18 screen trees along southern boundary.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway and civil works	92%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
17	<i>Melaleuca quinquenervia</i>	Broad-leaved Paperbark	1	60.61	73	7.3	2.9	9	7	Good	Fair	Mature	Medium (15-40)	Previous failure(s), Wound(s)	Located in adjacent property. DBH/DRB estimated.	Protected	Native	1 (High)	High - Priority for Retention	TPZ/SRZ encroachment for driveway and civil works	45%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
18	<i>Eucalyptus nicholii</i>	Narrow Leaved Peppermint	1	36	45	4.3	2.4	9	8	Good	Good	Semi-mature	Medium (15-40)		Crown skewed to north.	Protected	Native	2 (Medium)	Medium - Consider for Retention	TPZ/SRZ encroachment for driveway and civil works	72%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
19	<i>Casuarina glauca</i>	Swamp Sheoak	1	24.6	60	3.0	2.7	10	4	Good	Fair	Semi-mature	Short (5-15)	Co-dominant stems, Included bark	Located in adjoining Sydney Water canal.	Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway and civil works	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
20	<i>Casuarina glauca</i>	Swamp Sheoak	1	22.8	36	2.7	2.2	10	4	Good	Fair	Semi-mature	Dead Or Hazardous/Rem ove (0-5)	Co-dominant stems, Damaging infrastructure, Included bark	Located in adjoining Sydney Water canal. Damaging fence.	Protected	Indigenous	3 (Low)	Priority for Removal	TPZ/SRZ encroachment for driveway and civil works	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
21	<i>Casuarina glauca</i>	Swamp Sheoak	9	10	18	2.0	1.6	6	1	Good	Fair	Young	Short (5-15)	Co-dominant stems, Included bark	Group of 9 small self-sown trees on garden bed.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway and civil works	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
22	<i>Casuarina glauca</i>	Swamp Sheoak	1	21.26	36	2.6	2.2	10	4	Good	Fair	Semi-mature	Dead Or Hazardous/Rem ove (0-5)	Co-dominant stems, Damaging infrastructure, Included bark	Located in adjoining Sydney Water canal. Damaging fence.	Protected	Indigenous	3 (Low)	Priority for Removal	TPZ/SRZ encroachment for driveway and civil works	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
23	<i>Casuarina glauca</i>	Swamp Sheoak	1	26.61	43	3.2	2.3	10	4	Good	Fair	Semi-mature	Dead Or Hazardous/Rem ove (0-5)	Co-dominant stems, Damaging infrastructure, Included bark	Located in adjoining Sydney Water canal. Damaging fence.	Protected	Indigenous	3 (Low)	Priority for Removal	TPZ/SRZ encroachment for driveway and civil works	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
24	<i>Casuarina glauca</i>	Swamp Sheoak	1	23.09	39	2.8	2.2	12	4	Good	Fair	Semi-mature	Dead Or Hazardous/Rem ove (0-5)	Co-dominant stems, Damaging infrastructure, Included bark	Located in adjoining Sydney Water canal. Damaging fence.	Protected	Indigenous	3 (Low)	Priority for Removal	TPZ/SRZ encroachment for driveway and civil works	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
25	<i>Casuarina glauca</i>	Swamp Sheoak	1	20.9	36	2.5	2.2	12	4	Good	Fair	Semi-mature	Short (5-15)	Co-dominant stems, Included bark	Located in adjoining Sydney Water canal.	Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway and civil works	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
26	<i>Callistemon salignus</i>	White Bottlebrush	1	13	19	2.0	1.6	5	3	Good	Good	Semi-mature	Medium (15-40)	Suppressed		Protected	Native	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway and civil works	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
27	<i>Eucalyptus microcorys</i>	Tallowood	1	58	52	7.0	2.5	13	12	Poor	Fair	Semi-mature	Dead Or Hazardous/Rem ove (0-5)	Co-dominant stems, Deadwood major (>10cm diameter), Dieback, Epicormic shoots, Included bark	Tree in advanced decline.	Protected	Native	3 (Low)	Priority for Removal	TPZ/SRZ encroachment for driveway and civil works	98%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
28	<i>Phoenix canariensis</i>	Canary Island Date Palm	1	80	80	9.6	3.0	4	5	Good	Good	Semi-mature	Dead Or Hazardous/Rem ove (0-5)		Self-sown tree that becomes problematic at maturity.	Protected	Exotic	3 (Low)	Priority for Removal	TPZ/SRZ encroachment for driveway and civil works	70%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
29	<i>Melia azedarach</i>	White Cedar	1	11.7	28	2.0	1.9	4	4	Fair	Poor	Juvenile	Dead Or Hazardous/Rem ove (0-5)	Co-dominant stems	Poorly formed small tree.	Exempt	Native	5 (Hazardous / Irreversible Decline)	Priority for Removal	TPZ/SRZ encroachment for driveway and civil works	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
30	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	46	55	5.5	2.6	11	10	Good	Good	Semi-mature	Long (>40)			Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ/SRZ encroachment for driveway and civil works	94%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
31	<i>Casuarina glauca</i>	Swamp Sheoak	4	14.14	27	2.0	1.9	5	2	Good	Fair	Juvenile	Dead Or Hazardous/Rem ove (0-5)	Co-dominant stems	Group of 4 self sown small trees.	Protected	Indigenous	3 (Low)	Priority for Removal	TPZ/SRZ encroachment for driveway and civil works	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
32	<i>Eucalyptus grandis</i>	Flooded Gum	1	41	57	4.9	2.6	18	10	Good	Good	Semi-mature	Medium (15-40)	Deadwood moderate (3-10cm diameter)	Tree will eventually outgrow location.	Protected	Native	1 (High)	High - Priority for Retention	TPZ/SRZ encroachment for driveway and civil works	85%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
33	<i>Cinnamomum camphora</i>	Camphor Laurel	1	34.04	80	4.1	3.0	8	7	Good	Poor	Semi-mature	Dead Or Hazardous/Rem ove (0-5)	Co-dominant stems, Environmental/Decl ared Weed	Located in adjacent Sydney Water canal. Multi-stemmed regrowth from stump.	Exempt	Exotic	4 (Environmental Pest / Noxious Weed)	Priority for Removal	TPZ/SRZ encroachment for driveway expansion	62%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
34	<i>Melia azedarach</i>	White Cedar	1	57.01	97	6.8	3.3	10	10	Good	Poor	Mature	Short (5-15)	Co-dominant stems, Included bark	Multi-stemmed tree with poorly formed basal union.	Exempt	Native	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	62%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
35	<i>Casuarina glauca</i>	Swamp Sheoak	1	31	43	3.7	2.3	9	5	Good	Good	Semi-mature	Medium (15-40)			Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
36	<i>Melaleuca stypheloides</i>	Prickly-leaved Paperbark	6	17.69	22	2.1	1.8	6	2	Good	Fair	Juvenile	Short (5-15)	Co-dominant stems	Group of 6 small trees. Includes 1 Eucalypt.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
37	<i>Casuarina cunninghamiana</i>	River Sheoak	1	24	33	2.9	2.1	12	2	Good	Good	Semi-mature	Medium (15-40)			Protected	Native	2 (Medium)	Medium - Consider for Retention	TPZ/SRZ encroachment for driveway expansion	83%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
38	<i>Casuarina glauca</i>	Swamp Sheoak	1	28	33	3.4	2.1	8	5	Good	Fair	Semi-mature	Medium (15-40)	Co-dominant stems, Included bark		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
39	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	52	69	6.2	2.8	15	14	Good	Good	Mature	Long (>40)		Branches touching southern warehouse.	Protected	Native	1 (High)	High - Priority for Retention	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
40	<i>Corymbia maculata</i>	Spotted Gum	1	54	67	6.5	2.8	15	12	Good	Good	Mature	Long (>40)	Deadwood moderate (3-10cm diameter)	.	Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
41	<i>Eucalyptus microcorys</i>	Tallowood	2	8	10	2.0	1.5	4	2	Poor	Poor	Juvenile	Dead Or Hazardous/Rem ove (0-5)	Climbing vine, Deadwood minor (<3cm diameter), Dieback, Epicormic shoots	Group includes small Melaleuca to west. Trees in advanced decline.	Protected	Native	5 (Hazardous / Irreversible Decline)	Priority for Removal	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
42	<i>Melaleuca stypheloides</i>	Prickly-leaved Paperbark	1	39.59	38	4.8	2.2	6	5	Good	Fair	Semi-mature	Medium (15-40)	Co-dominant stems, Included bark		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
43	<i>Melaleuca stypheloides</i>	Prickly-leaved Paperbark	3	16.16	18	2.0	1.6	6	3	Good	Good	Juvenile	Short (5-15)	Suppressed	Group of 3 small suppressed trees.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
44	<i>Casuarina glauca</i>	Swamp Sheoak	2	19	22	2.3	1.8	10	1	Good	Good	Juvenile	Long (>40)		Group includes tree to east.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
45	<i>Casuarina glauca</i>	Swamp Sheoak	1	28	35	3.4	2.1	10	3	Good	Good	Juvenile	Long (>40)			Protected	Indigenous	2 (Medium)	High - Priority for Retention	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
46	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	34	44	4.1	2.3	8	8	Good	Fair	Semi-mature	Medium (15-40)			Protected	Native	2 (Medium)	Medium - Consider for Retention	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
47	<i>Eucalyptus bicostata</i>	Eurabbie	1	92	102	11.0	3.3	10	15	Good	Good	Mature	Medium (15-40)	Co-dominant stems, Deadwood major (>10cm diameter)		Protected	Native	1 (High)	High - Priority for Retention	TPZ/SRZ encroachment for driveway expansion	93%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
48	<i>Casuarina glauca</i>	Swamp Sheoak	2	12	23	2.0	1.8	5	3	Good	Good	Juvenile	Short (5-15)	Suppressed	Group of 2 small suppressed trees.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
49	<i>Eucalyptus grandis</i>	Flooded Gum	1	44	54	5.3	2.6	1	13	Good	Good	Semi-mature	Medium (15-40)		Tree in close proximity to fence.	Protected	Native	2 (Medium)	Medium - Consider for Retention	TPZ/SRZ encroachment for driveway expansion	65%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
50	<i>Acacia decurrens</i>	Black Wattle	10	4.24	9	2.0	1.5	5	1	Good	Fair	Juvenile	Short (5-15)	Co-dominant stems	Group includes an estimated 10 trees to the north of the tagged tree along the boundary.	Exempt	Indigenous	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
51	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	29.15	34	3.5	2.1	6	4	Good	Good	Mature	Medium (15-40)			Protected	Native	2 (Medium)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
52	<i>Melaleuca bracteata</i>	Black Tea Tree	1	30.61	40	3.7	2.3	6	3	Good	Poor	Mature	Dead Or Hazardous/Rem ove (0-5)	Co-dominant stems, Poor pruning	Previously lopped at 4m.	Protected	Native	2 (Medium)	Priority for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
53	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	34.67	53	4.2	2.5	6	6	Good	Good	Mature	Medium (15-40)	Co-dominant stems		Protected	Native	2 (Medium)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
54	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	31.29	43	3.8	2.3	5	5	Good	Good	Mature	Medium (15-40)	Co-dominant stems, Suppressed		Protected	Native	2 (Medium)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
55	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	17.38	43	2.1	2.3	4	4	Good	Good	Mature	Short (5-15)	Co-dominant stems, Suppressed		Protected	Native	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
56	<i>Fraxinus griffithii</i>	Evergreen Ash	1	24	30	2.9	2.0	5	5	Good	Good	Semi-mature	Medium (15-40)			Protected	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
57	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	22	30	2.6	2.0	7	5	Good	Poor	Juvenile	Dead Or Hazardous/Rem ove (0-5)	Damaging infrastructure	Causing significant damage to retaining wall.	Protected	Native	5 (Hazardous / Irreversible Decline)	Priority for Removal	TPZ/SRZ encroachment for driveway expansion	38%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
58	<i>Corymbia citriodora</i>	Lemon-scented Gum	2	27.66	40	3.3	2.3	10	5	Good	Poor	Juvenile	Dead Or Hazardous/Rem ove (0-5)	Damaging infrastructure	Group of 2 self sown trees growing on top of retaining wall that will cause significant structural damage of not removed. Possibly located in adjoining property.	Protected	Native	5 (Hazardous / Irreversible Decline)	Priority for Removal	TPZ/SRZ encroachment for driveway expansion	49%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
59	<i>Melia azedarach</i>	White Cedar	1	69.19	83	8.3	3.1	12	13	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Included bark	Codominant basal union with included bark.	Exempt	Native	2 (Medium)	Medium - Consider for Retention	Tree within sprinkler tank footprint	75%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
60	<i>Melia azedarach</i>	White Cedar	1	10.44	23	2.0	1.8	4	3	Good	Poor	Young	Dead Or Hazardous/Rem ove (0-5)	Co-dominant stems, Included bark, Suppressed	Poorly formed suppressed tree.	Exempt	Native	5 (Hazardous / Irreversible Decline)	Priority for Removal	Tree within sprinkler tank footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
61	<i>Casuarina cunninghamiana</i>	River Sheoak	1	34.57	53	4.1	2.5	11	4	Good	Fair	Semi-mature	Short (5-15)	Co-dominant stems, Included bark	Codominant basal union with included bark.	Protected	Native	3 (Low)	Low - Consider for Removal	Tree within sprinkler tank footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
62	<i>Melaleuca styphelioides</i>	Prickly-leaved Paperbark	1	16.64	21	2.0	1.7	6	4	Good	Fair	Juvenile	Medium (15-40)	Co-dominant stems, Included bark		Protected	Indigenous	3 (Low)	Low - Consider for Removal	Tree within sprinkler tank footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
63	<i>Eucalyptus grandis</i>	Flooded Gum	1	36	48	4.3	2.4	15	10	Good	Good	Semi-mature	Short (5-15)	Damaging infrastructure	Causing substantial damage to kerb edging and road surface.	Protected	Native	2 (Medium)	Low - Consider for Removal	Tree within sprinkler tank footprint and driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
64	<i>Melaleuca styphelioides</i>	Prickly-leaved Paperbark	1	19.85	30	2.4	2.0	6	3	Good	Fair	Semi-mature	Medium (15-40)	Co-dominant stems, Included bark		Protected	Indigenous	3 (Low)	Medium - Consider for Retention	Tree within sprinkler tank footprint and driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
65	<i>Casuarina glauca</i>	Swamp Sheoak	1	14	18	2.0	1.6	10	2	Good	Good	Juvenile	Medium (15-40)			Protected	Indigenous	3 (Low)	Low - Consider for Removal	Tree within sprinkler tank footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
66	<i>Casuarina glauca</i>	Swamp Sheoak	1	14	22	2.0	1.8	10	2	Good	Good	Juvenile	Medium (15-40)			Protected	Indigenous	3 (Low)	Low - Consider for Removal	Tree within sprinkler tank footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
67	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	33	41	4.0	2.3	12	7	Good	Good	Semi-mature	Medium (15-40)	Suppressed		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	Tree within sprinkler tank footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
68	<i>Casuarina glauca</i>	Swamp Sheoak	1	20	29	2.4	2.0	12	2	Good	Good	Semi-mature	Medium (15-40)			Protected	Indigenous	3 (Low)	Low - Consider for Removal	Tree within sprinkler tank footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
69	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	20	24	2.4	1.8	10	4	Good	Good	Semi-mature	Medium (15-40)			Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	Tree within sprinkler tank footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
70	<i>Casuarina glauca</i>	Swamp Sheoak	1	22	32	2.6	2.1	11	5	Good	Good	Semi-mature	Medium (15-40)			Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	Tree within sprinkler tank footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
71	<i>Melaleuca styphelioides</i>	Prickly-leaved Paperbark	1	7.81	19	2.0	1.6	4	5	Good	Poor	Juvenile	Dead Or Hazardous/Rem ove (0-5)		Root plate has previously failed.	Protected	Indigenous	3 (Low)	Priority for Removal	Tree within sprinkler tank footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
72	<i>Casuarina glauca</i>	Swamp Sheoak	1	21	30	2.5	2.0	12	2	Good	Good	Semi-mature	Long (>40)			Protected	Indigenous	2 (Medium)	High - Priority for Retention	TPZ/SRZ encroachment for fill required to increase R.L.	96%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
73	Dead tree	Dead tree	9	23	30	2.8	2.0	7	3	Dead	Poor	Mature	Dead Or Hazardous/Rem ove (0-5)		Includes all dead trees in this garden bed. All to be removed.	Exempt	N/A	5 (Hazardous / Irreversible Decline)	Priority for Removal	TPZ/SRZ encroachment for fill required to increase R.L.	90%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
74	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	10	13	2.0	1.5	6	2	Good	Good	Juvenile	Long (>40)			Protected	Native	3 (Low)	Medium - Consider for Retention	TPZ/SRZ encroachment for fill required to increase R.L.	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
75	<i>Casuarina glauca</i>	Swamp Sheoak	1	25	40	3.0	2.3	11	4	Good	Good	Semi-mature	Medium (15-40)			Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ/SRZ encroachment for fill required to increase R.L.	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
76	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	42	51	5.0	2.5	18	14	Good	Good	Mature	Long (>40)	Deadwood major (>10cm diameter), Suppressed		Protected	Native	1 (High)	High - Priority for Retention	TPZ/SRZ encroachment for fill required to increase R.L.	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
77	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	62	71	7.4	2.9	21	18	Good	Good	Mature	Long (>40)	Deadwood major (>10cm diameter)		Protected	Native	1 (High)	High - Priority for Retention	TPZ/SRZ encroachment for fill required to increase R.L. Within pump room footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
78	<i>Schinus areira</i>	Pepper Tree, Peruvian Mastic Tree	1	36	45	4.3	2.4	6	10	Good	Fair	Semi-mature	Short (5-15)	Suppressed	Heavily suppressed tree.	Protected	Exotic	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for fill required to increase R.L. Within pump room footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
79	<i>Eucalyptus microcorys</i>	Tallowood	1	23	29	2.8	2.0	8	7	Good	Good	Semi-mature	Short (5-15)	Damaging infrastructure	Causing significant damage to kerb edge and road surface.	Protected	Native	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
80	<i>Eucalyptus microcorys</i>	Tallowood	1	40	50	4.8	2.5	13	9	Good	Good	Semi-mature	Short (5-15)	Asymmetrical root plate, Damaging infrastructure	Causing significant damage to kerb edge and road surface.	Protected	Native	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
81	<i>Eucalyptus microcorys</i>	Tallowood	1	37	44	4.4	2.3	11	8	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems, Damaging infrastructure	Causing minor damage to kerb edge and road surface.	Protected	Native	2 (Medium)	Medium - Consider for Retention	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
82	<i>Eucalyptus microcorys</i>	Tallowood	1	45	56	5.4	2.6	14	9	Good	Fair	Semi-mature	Medium (15-40)	Co-dominant stems, Damaging infrastructure	Causing minor damage to kerb edge and road surface.	Protected	Native	2 (Medium)	Medium - Consider for Retention	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
83	<i>Eucalyptus microcorys</i>	Tallowood	1	42	55	5.0	2.6	15	10	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems, Damaging infrastructure	Causing minor damage to kerb edge and road surface.	Protected	Native	2 (Medium)	Medium - Consider for Retention	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
84	<i>Eucalyptus microcorys</i>	Tallowood	1	35	43	4.2	2.3	10	9	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems, Damaging infrastructure, Suppressed	Causing minor damage to kerb edge and road surface.	Protected	Native	2 (Medium)	Medium - Consider for Retention	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
85	<i>Eucalyptus microcorys</i>	Tallowood	1	43	55	5.2	2.6	15	10	Good	Good	Semi-mature	Long (>40)		Retaining wall likely influencing root growth to the north.	Protected	Native	1 (High)	High - Priority for Retention	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
86	<i>Eucalyptus microcorys</i>	Tallowood	1	24	26	2.9	1.9	6	6	Good	Fair	Semi-mature	Short (5-15)	Co-dominant stems, Suppressed		Protected	Native	3 (Low)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
87	<i>Eucalyptus microcorys</i>	Tallowood	1	34	41	4.1	2.3	10	10	Good	Good	Semi-mature	Medium (15-40)		Proximity to kerb limits ULE.	Protected	Native	2 (Medium)	Medium - Consider for Retention	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
88	<i>Eucalyptus microcorys</i>	Tallowood	1	41	53	4.9	2.5	13	10	Good	Fair	Semi-mature	Short (5-15)	Asymmetrical root plate, Damaging infrastructure	Causing significant damage to kerb edging and road surface.	Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
89	<i>Eucalyptus microcorys</i>	Tallowood	1	32	41	3.8	2.3	9	9	Good	Good	Semi-mature	Short (5-15)	Suppressed	Suppression limits ULE.	Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ/SRZ encroachment for driveway expansion	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
90	<i>Eucalyptus microcorys</i>	Tallowood	1	40	52	4.8	2.5	11	11	Good	Good	Semi-mature	Medium (15-40)	Damaging infrastructure	Causing minor damage to kerb edging and road surface.	Protected	Native	2 (Medium)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
91	<i>Eucalyptus microcorys</i>	Tallowood	1	13	40	2.0	2.3	6	4	Good	Good	Juvenile	Short (5-15)	Suppressed		Protected	Native	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
92	<i>Eucalyptus microcorys</i>	Tallowood	1	24	31	2.9	2.0	8	8	Fair	Good	Juvenile	Short (5-15)	Deadwood minor (<3cm diameter), Dieback, Suppressed		Protected	Native	2 (Medium)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
93	<i>Eucalyptus microcorys</i>	Tallowood	1	51	63	6.1	2.7	15	15	Good	Good	Semi-mature	Medium (15-40)	Damaging infrastructure	Causing moderate damage to kerb edging and road surface.	Protected	Native	2 (Medium)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
94	<i>Melaleuca bracteata</i>	Black Tea Tree	1	5.83	13	2.0	1.5	3	2	Good	Good	Juvenile	Short (5-15)		Growing on constrained garden bed.	Exempt	Native	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
95	<i>Melaleuca bracteata</i>	Black Tea Tree	1	8.89	14	2.0	1.5	3	3	Good	Good	Juvenile	Short (5-15)		Growing on constrained garden bed.	Exempt	Native	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
96	<i>Melaleuca bracteata</i>	Black Tea Tree	1	12.17	21	2.0	1.7	4	4	Good	Good	Juvenile	Short (5-15)		Growing on constrained garden bed.	Protected	Native	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
97	<i>Eucalyptus microcorys</i>	Tallowood	1	27	34	3.2	2.1	7	6	Good	Poor	Semi-mature	Short (5-15)	Poor pruning	Previous lopped.	Protected	Native	2 (Medium)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
98	<i>Eucalyptus microcorys</i>	Tallowood	1	27	34	3.2	2.1	9	7	Fair	Fair	Semi-mature	Short (5-15)	Co-dominant stems, Damaging infrastructure, Deadwood minor (<3cm diameter), Dieback	Tree in declining health. Causing minor damage to kerb edging and road surface.	Protected	Native	2 (Medium)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
99	<i>Eucalyptus microcorys</i>	Tallowood	1	52	68	6.2	2.8	21	15	Good	Fair	Mature	Medium (15-40)	Damaging infrastructure	Causing minor damage to kerb edging and road surface.	Protected	Native	2 (Medium)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
100	<i>Eucalyptus microcorys</i>	Tallowood	1	53	68	6.4	2.8	21	15	Good	Good	Mature	Medium (15-40)	Damaging infrastructure	Causing minor damage to kerb edging and road surface.	Protected	Native	2 (Medium)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
101	<i>Melaleuca bracteata</i>	Black Tea Tree	1	5	13	2.0	1.5	4	2	Good	Good	Juvenile	Short (5-15)	Epicormic shoots	Growing in constrained garden bed.	Protected	Native	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
102	<i>Melaleuca bracteata</i>	Black Tea Tree	1	12.08	18	2.0	1.6	4	2	Good	Good	Juvenile	Short (5-15)		Growing in constrained garden bed.	Protected	Native	3 (Low)	Low - Consider for Removal	Within driveway footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
103	<i>Melaleuca bracteata</i>	Black Tea Tree	1	33.48	39	4.0	2.2	5	7	Good	Good	Semi-mature	Short (5-15)	Damaging infrastructure	Growing in constrained garden bed.	Protected	Native	3 (Low)	Low - Consider for Removal	R.L change and retaining wall within TPZ/SRZ	39%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
104	<i>Fraxinus griffithii</i>	Evergreen Ash	1	16.28	21	2.0	1.7	4	4	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems		Protected	Exotic	3 (Low)	Low - Consider for Removal	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
105	<i>Fraxinus griffithii</i>	Evergreen Ash	1	15.59	21	2.0	1.7	4	4	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems		Protected	Exotic	3 (Low)	Low - Consider for Removal	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
106	<i>Fraxinus griffithii</i>	Evergreen Ash	1	13.45	18	2.0	1.6	4	4	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems		Protected	Exotic	3 (Low)	Low - Consider for Removal	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
107	<i>Fraxinus griffithii</i>	Evergreen Ash	1	48.17	38	5.8	2.2	5	4	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems		Protected	Exotic	3 (Low)	Low - Consider for Removal	R.L change and retaining wall within TPZ/SRZ	26%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
108	<i>Fraxinus griffithii</i>	Evergreen Ash	1	24.04	29	2.9	2.0	6	6	Good	Good	Semi-mature	Medium (15-40)			Protected	Exotic	3 (Low)	Low - Consider for Removal	R.L change and retaining wall within TPZ	3%	Minor	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
109	<i>Fraxinus griffithii</i>	Evergreen Ash	1	26.02	28	3.1	1.9	6	6	Good	Good	Semi-mature	Medium (15-40)			Protected	Exotic	3 (Low)	Low - Consider for Removal	R.L change and retaining wall within TPZ	5%	Minor	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
110	<i>Fraxinus griffithii</i>	Evergreen Ash	1	28.23	38	3.4	2.2	6	6	Good	Good	Semi-mature	Medium (15-40)			Protected	Exotic	3 (Low)	Low - Consider for Removal	Within driveway footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
111	<i>Fraxinus griffithii</i>	Evergreen Ash	1	24	27	2.9	1.9	5	5	Good	Good	Semi-mature	Medium (15-40)			Protected	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
112	<i>Fraxinus griffithii</i>	Evergreen Ash	1	21.93	23	2.6	1.8	5	5	Good	Good	Semi-mature	Medium (15-40)			Protected	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
113	<i>Fraxinus griffithii</i>	Evergreen Ash	1	16	19	2.0	1.6	3	3	Good	Good	Semi-mature	Medium (15-40)			Exempt	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
114	<i>Fraxinus griffithii</i>	Evergreen Ash	1	24.39	32	2.9	2.1	4	3	Good	Good	Semi-mature	Medium (15-40)			Protected	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
115	<i>Fraxinus griffithii</i>	Evergreen Ash	1	11.31	13	2.0	1.5	3	3	Good	Good	Semi-mature	Medium (15-40)			Exempt	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
116	<i>Fraxinus griffithii</i>	Evergreen Ash	1	5	11	2.0	1.5	3	2	Good	Good	Juvenile	Medium (15-40)			Exempt	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
117	<i>Fraxinus griffithii</i>	Evergreen Ash	1	12.04	17	2.0	1.6	3	2	Good	Good	Juvenile	Medium (15-40)			Exempt	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
118	<i>Fraxinus griffithii</i>	Evergreen Ash	1	17.92	21	2.2	1.7	4	3	Good	Good	Semi-mature	Medium (15-40)			Protected	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
119	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	27	33	3.2	2.1	7	4	Good	Fair	Mature	Medium (15-40)			Protected	Native	2 (Medium)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
120	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	19.85	24	2.4	1.8	5	5	Good	Fair	Semi-mature	Short (5-15)	Co-dominant stems, Suppressed		Protected	Native	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
121	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	32.83	38	3.9	2.2	7	6	Good	Good	Mature	Medium (15-40)	Co-dominant stems		Protected	Native	2 (Medium)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
122	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	22.02	32	2.6	2.1	7	5	Good	Good	Mature	Medium (15-40)	Co-dominant stems		Protected	Native	2 (Medium)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
123	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	29.58	45	3.5	2.4	7	5	Good	Fair	Mature	Short (5-15)	Co-dominant stems, included bark		Protected	Native	2 (Medium)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
124	<i>Fraxinus griffithii</i>	Evergreen Ash	1	18.49	18	2.2	1.6	4	3	Good	Good	Semi-mature	Medium (15-40)			Protected	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
125	<i>Fraxinus griffithii</i>	Evergreen Ash	1	30.1	32	3.6	2.1	5	5	Good	Good	Semi-mature	Medium (15-40)			Protected	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
126	<i>Fraxinus griffithii</i>	Evergreen Ash	1	23.6	24	2.8	1.8	5	5	Good	Good	Semi-mature	Medium (15-40)			Protected	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
127	<i>Fraxinus griffithii</i>	Evergreen Ash	1	28.44	31	3.4	2.0	6	7	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems		Protected	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
128	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	24	35	2.9	2.1	10	6	Good	Good	Semi-mature	Medium (15-40)	Suppressed	Suppression limits ULE.	Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ	3%	Minor	Tree is suppressed and likely reliant of larger adjacent trees for mutual shelter. Tree will become unstable following removal of adjacent trees.	Remove	
129	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	59	70	7.1	2.8	19	15	Good	Good	Mature	Medium (15-40)	Damaging infrastructure	Damaging kerb edging and road surface. Roots appear to extend to bitumen.	Protected	Native	1 (High)	High - Priority for Retention	R.L change and retaining wall within TPZ/SRZ	28%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
130	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	29	47	3.5	2.4	6	5	Good	Good	Mature	Medium (15-40)	Co-dominant stems		Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ	7%	Minor	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
131	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	25.55	37	3.1	2.2	6	5	Good	Good	Mature	Medium (15-40)			Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ	5%	Minor	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
132	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	19	28	2.3	1.9	6	5	Good	Good	Mature	Medium (15-40)			Protected	Native	2 (Medium)	Medium - Consider for Retention	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
133	Dead tree	Dead tree	1	28	34	3.4	2.1	4	4	Dead	Poor	Semi-mature	Dead Or Hazardous/Rem ove (0-5)	Deadwood major (>10cm diameter)	Dead tree leaning against building in adjacent property.	Exempt	N/A	5 (Hazardous / Irreversible Decline)	Priority for Removal	Dead tree that should be removed irrespective of the development	3%	Minor	Tree is dead and should be removed irrespective of development	Remove	
134	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	23.02	36	2.8	2.2	6	5	Good	Good	Mature	Medium (15-40)			Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
135	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	35.23	50	4.2	2.5	7	5	Good	Good	Mature	Medium (15-40)	Co-dominant stems		Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ/SRZ	12%	Major	Tree likely viable for retention due to borderline major encroachment	Retain	Root mapping and tree sensitive construction techniques and tree protection fencing
136	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	27.86	50	3.3	2.5	7	5	Good	Good	Mature	Medium (15-40)	Climbing vine, Co-dominant stems		Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ	3%	Minor	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
137	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	25.04	47	3.0	2.4	7	6	Good	Good	Mature	Medium (15-40)	Climbing vine, Co-dominant stems		Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
138	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	20.32	37	2.4	2.2	75	5	Good	Good	Mature	Medium (15-40)	Climbing vine, Co-dominant stems, Suppressed, Wound(s)		Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
139	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	21.26	33	2.6	2.1	5	5	Good	Good	Mature	Medium (15-40)	Climbing vine, Co-dominant stems, Suppressed		Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
140	<i>Casuarina cunninghamiana</i>	River Sheoak	1	31.83	42	3.8	2.3	8	3	Good	Fair	Semi-mature	Medium (15-40)	Co-dominant stems, Suppressed		Protected	Native	1 (High)	High - Priority for Retention	R.L change and retaining wall within TPZ	5%	Minor	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
141	<i>Casuarina cunninghamiana</i>	River Sheoak	1	55	74	6.6	2.9	15	7	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Epicormic shoots	Causing damage to kerb edging and road surface.	Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ/SRZ	23%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
142	<i>Casuarina cunninghamiana</i>	River Sheoak	1	32	41	3.8	2.3	14	5	Fair	Fair	Semi-mature	Medium (15-40)	Co-dominant stems, Dieback, Epicormic shoots, Included bark		Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ	6%	Minor	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
143	<i>Casuarina cunninghamiana</i>	River Sheoak	1	50	56	6.0	2.6	14	57	Fair	Good	Mature	Short (5-15)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Dieback, Epicormic shoots, Suppressed		Protected	Native	2 (Medium)	Low - Consider for Removal	R.L change and retaining wall within TPZ/SRZ	20%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
144	<i>Fraxinus griffithii</i>	Evergreen Ash	1	18.49	24	2.2	1.8	4	4	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems		Protected	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
145	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	27.46	46	3.3	2.4	6	6	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Included bark		Protected	Native	2 (Medium)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
146	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	26.12	40	3.1	2.3	6	6	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Included bark		Protected	Native	2 (Medium)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
147	<i>Callistemon viminalis</i>	Weeping Bottlebrush	16	29.36	42	3.5	2.3	5	6	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Included bark, Suppressed		Protected	Native	2 (Medium)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
148	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	29	38	3.5	2.2	6	5	Good	Good	Mature	Medium (15-40)	Co-dominant stems		Protected	Native	2 (Medium)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
149	<i>Fraxinus griffithii</i>	Evergreen Ash	1	21.26	26	2.6	1.9	4	4	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems		Protected	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
150	<i>Fraxinus griffithii</i>	Evergreen Ash	1	23	28	2.8	1.9	4	4	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems		Protected	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
151	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	49.43	67.1	5.9	2.8	6	6	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Included bark		Protected	Native	2 (Medium)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
152	<i>Callistemon citrinus</i>	Crimson Bottlebrush	1	36	33	4.3	2.1	4	4	Fair	Fair	Mature	Short (5-15)	Co-dominant stems, Dieback, Included bark, Poor pruning, Wound(s)		Protected	Indigenous	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
153	<i>Grevillea baileyana</i>	White Oak	1	25	33	3.0	2.1	6	5	Good	Fair	Mature	Short (5-15)	Broken Limb, Hanger(s), Mechanical damage		Protected	Native	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
154	<i>Fraxinus griffithii</i>	Evergreen Ash	1	22.63	27	2.7	1.9	6	5	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems		Protected	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
155	<i>Grevillea cvr.</i>	Grevillea Cultivar	1	16	17	2.0	1.6	4	3	Fair	Fair	Mature	Dead Or Hazardous/Rem ove (0-5)	Deadwood moderate (3-10cm diameter), Dieback	Tree in declining health.	Protected	Native	3 (Low)	Priority for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
156	<i>Grevillea cvr.</i>	Grevillea Cultivar	1	16	21	2.0	1.7	4	3	Fair	Fair	Mature	Dead Or Hazardous/Rem ove (0-5)	Deadwood moderate (3-10cm diameter), Dieback, Previous failure(s), Wound(s)	Tree in declining health.	Protected	Native	3 (Low)	Priority for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
157	<i>Eucalyptus sp.</i>	Eucalypt	1	94.15	110	11.3	3.4	16	14	Fair	Fair	Mature	Short (5-15)	Deadwood major (>10cm diameter), Dieback, Wood borer, Wound(s)	Multiple large branches have previously died from wood borer activity and some have been pruned. Tree with sorry ULE.	Protected	Native	1 (High)	Low - Consider for Removal	Within warehouse footprint	99%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
158	<i>Corymbia citriodora</i>	Lemon-scented Gum	2	11	18	2.0	1.6	5	1	Good	Good	Young	Medium (15-40)		Group of 2 small self-sown trees.	Protected	Native	3 (Low)	Medium - Consider for Retention	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
159	<i>Fraxinus griffithii</i>	Evergreen Ash	1	23	23	2.8	1.8	3	4	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems		Exempt	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
160	<i>Fraxinus griffithii</i>	Evergreen Ash	1	23	23	2.8	1.8	3	4	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems		Exempt	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
161	<i>Fraxinus griffithii</i>	Evergreen Ash	1	21.56	28	2.6	1.9	4	5	Good	Fair	Semi-mature	Medium (15-40)	Co-dominant stems		Protected	Exotic	3 (Low)	Low - Consider for Removal	Within warehouse footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
162	<i>Fraxinus griffithii</i>	Evergreen Ash	1	17.03	23.2	2.0	1.8	4	4	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems		Protected	Exotic	3 (Low)	Low - Consider for Removal	Within carpark footprint	100%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
163	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	38	40	4.6	2.3	15	10	Good	Good	Semi-mature	Medium (15-40)	Damaging infrastructure	Damaging kerb edging and road surface.	Protected	Native	1 (High)	High - Priority for Retention	R.L change and retaining wall within TPZ/SRZ	12%	Major	Tree may be viable for retention due to marginal major encroachment	Retain	Root mapping and tree sensitive construction techniques and tree protection fencing
164	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	56.51	102	6.8	3.3	15	14	Fair	Good	Semi-mature	Medium (15-40)	Co-dominant stems, Damaging infrastructure	Damaging kerb edging and road surface. Codominant at ground level.	Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ/SRZ	20%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
165	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	28	39	3.4	2.2	17	9	Good	Fair	Semi-mature	Medium (15-40)	Damaging infrastructure, Suppressed, Wound(s)	Damaging kerb edging and road surface.	Protected	Native	2 (Medium)	Medium - Consider for Retention	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
166	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	59.55	79	7.1	3.0	17	12	Good	Fair	Semi-mature	Medium (15-40)	Co-dominant stems, Damaging infrastructure	Damaging kerb edging and road surface.	Protected	Native	1 (High)	High - Priority for Retention	R.L change and retaining wall within TPZ/SRZ	22%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
167	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	18.49	33	2.2	2.1	6	4	Good	Fair	Semi-mature	Medium (15-40)	Co-dominant stems		Protected	Native	3 (Low)	Medium - Consider for Retention	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
168	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	12.08	21	2.0	1.7	6	4	Good	Fair	Semi-mature	Medium (15-40)	Suppressed		Protected	Native	3 (Low)	Medium - Consider for Retention	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
169	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	24.08	34	2.9	2.1	6	4	Good	Fair	Semi-mature	Medium (15-40)	Co-dominant stems		Protected	Native	3 (Low)	Medium - Consider for Retention	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
170	<i>Casuarina cunninghamiana</i>	River Sheoak	1	40	46	4.8	2.4	13	8	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems, Suppressed		Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ/SRZ	10%	Major	Tree may be viable for retention due to marginal major encroachment	Retain	Root mapping and tree sensitive construction techniques and tree protection fencing
171	<i>Casuarina cunninghamiana</i>	River Sheoak	1	66	68	7.9	2.8	19	11	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Deadwood major (>10cm diameter), Included bark		Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ/SRZ	24%	Major	Tree not viable for retention due to level of and type of encroachment	Remove	
172	<i>Casuarina cunninghamiana</i>	River Sheoak	1	46	52	5.5	2.5	19	8	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Included bark		Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ/SRZ	13%	Major	Tree may be viable for retention due to marginal major encroachment	Retain	Root mapping and tree sensitive construction techniques and tree protection fencing
173	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	14	19	2.0	1.6	6	3	Good	Fair	Semi-mature	Short (5-15)	Suppressed		Protected	Native	3 (Low)	Low - Consider for Removal	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
174	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	30.3	40	3.6	2.3	6	6	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems		Protected	Native	3 (Low)	Medium - Consider for Retention	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
175	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	29.7	46	3.6	2.4	6	6	Good	Good	Semi-mature	Medium (15-40)	Co-dominant stems		Protected	Native	3 (Low)	Medium - Consider for Retention	No direct encroachment	0%	Nil	No significant impact expected provided tree protection measures are installed and maintained	Retain	Tree Protection Fencing
176	<i>Casuarina cunninghamiana</i>	River Sheoak	1	51.74	76	6.2	2.9	14	9	Fair	Fair	Mature	Dead Or Hazardous/Rem ove (0-5)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Wound (s)	Significant trunk wounds limit ULE.	Protected	Native	3 (Low)	Priority for Removal	R.L change and retaining wall within TPZ/SRZ	41%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
177	<i>Casuarina cunninghamiana</i>	River Sheoak	1	22	38	2.6	2.2	10	2	Fair	Fair	Semi-mature	Dead Or Hazardous/Rem ove (0-5)	Deadwood major (>10cm diameter), Dieback, Wound(s)	Significant trunk wounds limit ULE.	Protected	Native	3 (Low)	Priority for Removal	R.L change and retaining wall within TPZ/SRZ	39%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
178	<i>Casuarina cunninghamiana</i>	River Sheoak	1	23	35	2.8	2.1	7	8	Fair	Fair	Semi-mature	Short (5-15)	Dieback, Suppressed, Wound(s)		Protected	Native	3 (Low)	Low - Consider for Removal	R.L change and retaining wall within TPZ/SRZ	32%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
179	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	45.65	70	5.5	2.8	20	12	Good	Fair	Mature	Medium (15-40)	Wound(s)	Crossing branches at 5m.	Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ/SRZ	42%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
180	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	23	33	2.8	2.1	13	12	Good	Fair	Semi-mature	Short (5-15)	Suppressed, Wound(s)		Protected	Native	2 (Medium)	Low - Consider for Removal	R.L change and retaining wall within TPZ/SRZ	39%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
181	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	41	54	4.9	2.6	22	9	Good	Good	Mature	Medium (15-40)	Damaging infrastructure, Poor pruning, Wound(s)	Damaging kerb edging and road surface.	Protected	Native	2 (Medium)	Medium - Consider for Retention	R.L change and retaining wall within TPZ/SRZ	40%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
182	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	35	46	2.2	2.1	15	15	Good	Poor	Semi-mature	Short (5-15)	Suppressed, Wound(s)	Heavily suppressed tree with multiple large trunk wounds.	Protected	Native	3 (Low)	Low - Consider for Removal	R.L change and retaining wall within TPZ/SRZ	43%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
183	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	13.38	24	2.0	1.7	4	2	Poor	Poor	Semi-mature	Dead Or Hazardous/Rem ove (0-5)	Co-dominant stems, Deadwood major (>10cm diameter), Dieback, Suppressed	Entire eastern stem is dead.	Protected	Native	5 (Hazardous / Irreversible Decline)	Priority for Removal	R.L change and retaining wall within TPZ/SRZ	48%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
184	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	10	13	2.9	2.1	4	2	Good	Fair	Semi-mature	Medium (15-40)			Protected	Native	3 (Low)	Medium Consider for Retention	R.L change and retaining wall within TPZ/SRZ	44%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
185	<i>Callistemon viminalis</i>	Weeping Bottlebrush	1	13.45	19	4.8	2.4	4	2	Poor	Poor	Semi-mature	Dead Or Hazardous/Rem ove (0-5)	Deadwood major (>10cm diameter), Dieback	Tree in advanced decline.	Protected	Native	5 (Hazardous / Irreversible Decline)	Priority for Removal	R.L change and retaining wall within TPZ/SRZ	45%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
186	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	47	59	7.9	2.8	22	15	Good	Fair	Semi-mature	Short (5-15)	Epicornic shoots, Poor pruning, Wound(s)	Entire northern scaffold branch has been previously pruned or failed.	Protected	Native	2 (Medium)	Low - Consider for Removal	R.L change and retaining wall within TPZ/SRZ	76%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
187	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	39	50	5.5	2.5	23	10	Good	Good	Semi-mature	Long (>40)		Tree must be managed as a group with adjacent trees.	Protected	Native	1 (High)	High - Priority for Retention	R.L change and retaining wall within TPZ/SRZ	69%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Encroachment %	Encroachment Type	Likely Impact	Recommendation	Specific Recommendation
188	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	48	69	2.0	1.6	23	12	Good	Good	Semi-mature	Long (>40)		Tree must be managed as a group with adjacent trees.	Protected	Native	1 (High)	High - Priority for Retention	R.L change and retaining wall within TPZ/SRZ	60%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	
189	<i>Angophora floribunda</i>	Rough-barked Apple	1	26	34	3.6	2.3	8	6	Good	Fair	Semi-mature	Short (5-15)	Damaging infrastructure	Tree appears heavily supported by fence and would be destabilised if it were removed.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	R.L change and retaining wall within TPZ/SRZ	45%	Major	Tree not viable for retention due to major TPZ encroachment which enters the SRZ	Remove	