# **Tree Impact Assessment Report**

Written as per Australian Standard 4970-2009

# 28 Lockwood Avenue, Belrose NSW 2085

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6<sup>th</sup> August 2019

# Contents

1.	Synopsis	3
2.	Background/Brief	4
3.	Method of Assessment	4
4.	Site Analysis	5
5.	Discussion	5
6. Stat	Overall Recommendations from Arboricultural assessment and Development impact ements	30
Арр	endix 1 Tree Schedules	23
Арр	endix 2 - Site Photographs	116
Арр	endix 3 - SULE Safe Useful Life Expectancy (Barell 1995)	143
Арр	endix 5 - Brief Qualifications and Experience of Mark Bury	155
Арр	endix 6 - Tree Management Plan	159
Арр	endix 7 - Bibliography / References	173
Арр	endix 8 - Root Management Systems	175
Арр	endix 9 - Arborist Report Required	176
Disc	claimer	181

## 1. Synopsis

I've been commissioned by Platinum Property Advisors to prepare a tree impact statement report on the proposed development at 28 Lockwood Avenue Belrose

The proposed re development of the site will create a combination of Business and Residential properties and a public open space with a new treed environment

The current tree environment from a tree management prospective on the property is a mixture of inappropriate plantings which consist of weed species, pollarded trees and dead trees which surrounded the previous library on the site

Little thought was put into the planting of a number of trees on the site as a lot of the trees planted are *Casuarina glauca* She Oak which have all been planted within 3 metres of infrastructure are their root systems have and will further impact adjacent infrastructure, This trees are constantly impacting upon neighbouring properties

There are also a number of poorly planned plantings of *Pittosporum undulatum* Sweet Pittosporum and *Cinnamomum camphora* Camphorlaurel and *Platanus x Hybrida* London Plane Trees and *Banksia intregrifolia* Coast Banksia The indigenous gums on the site are in poor condition mostly and have been pollarded in their development. Also in terms of public space a lot of these species are difficult to manage from a risk perspective.

Although the public from previous history on the site are determined to preserve trees on the site, I feel they don't totally realize that they wish to preserve a treed environment that is a risk issue to adjacent infrastructure currently and in the future both in terms of tree branch failure and tree failure and root damage to surrounding infrastructure

The proposed landscaping as compensatory planting for removal of trees on the site will create a much better planned treed environment with long term species that provide minimal risk issues in the future and maintenance issues This is an urban environment which has to be planned properly especially in the more litigates society we are becoming.

The proposed development will greatly impact all trees on the site, although there are some native species that could be possibly preserved it would be extremely difficult and no long term preservation of the subject species could be guaranteed given the excavation and relevelling involved on the site for the development to proceed. If any trees are required to be retained by Council they should be managed as per the attached Tree Management Plan in this report

Although the community will be disappointed with the removal of trees on the site the new development will be a much better use of the land and create better use of it with a well planned tree environment that can be more easily managed from a financial maintenance perspective and risk and liability management

The proposed development will be a better long term treed environment and much safer public space treed environment than the current environment.

This report should be read in its entirety before further comment

# Tree Inspection Report on: Eighty (80) Trees

Tree Inspection: 6<sup>th</sup> August 2019

# Report Prepared: 6th August 2019

## Report Commissioned by: Coco Simonian Platinum Property Advisors

## Legislation:

Northern Beaches Council Tree Preservation, Order, Section 74C of the Environmental Planning and Assessment Act 1979 (EP&A Act) NSW Native Vegetation Act 2003, NSW Native Vegetation Regulation 2005, NSW Fisheries Management Act 1994, NSW Threatened Species Conservation Act 1995, New South Wales Heritage Act 1977, NSW Rural Fires Act 1997, NSW Water Act 2000, NSW Threatened Species Conservation Act 1995, Federal National Parks and Wildlife Act 1974, Protection of the Environment Operations Act 1997 and the Federal Environment Protection and Biodiversity Conservation Act 1999

#### Scope of Works:

To determine the effects of the proposed change of use at 28 Lockwood Avenue Belrose on eighty (80) trees located on the site of the proposed development site.

#### 2. Background/Brief

- 2.1 Platinum Property Advisors have requested a Tree Assessment Report on Eighty (80) trees located on the site with regards to their suitability for retention on the site as part of a proposed Development Application for the site.
- 2.2 A visual tree inspection (VTA) of the tree was carried out by Mark Bury. The inspection included observing branch structure and condition, any insect or disease damage, inspection of surface roots and observations of the tree canopy. The inspection also involved measuring the height, canopy and diameter at breast height and diameter at base height of the tree.
- 2.3 An onsite inspection occurred on 6<sup>th</sup> August 2019 at the location. No aerial (climbing inspections) were taken as part of the assessment.
- 2.4 The conclusions and recommendations contained in this assessment are based on the aforementioned inspection and discussions.

#### 3. Method of Assessment

3.1 The site was inspected on 6<sup>th</sup> August 2019 the health and condition of the tree. This assessment has been carried out in reference to the accepted methods of tree assessment by Mattheck and Breloer (VTA) Page 119 of The Body Language of Trees and Strouts and Winter (Page 1) in Diagnosis of ill health in trees A Tree Schedule (Appendix 3) Binoculars were used to inspect the crown of the tree. Trees on the property have been tagged with numbers.

- 3.2 Photographs used in this report are originals taken at the inspection and are not altered in any way. Tree heights are determined with a Silva Clinomaster/Heightmeter<sup>™</sup> and canopy spread were determined by visual estimations. Soil compaction was assessed by using an 8mm x 400mm steel spike being pushed by hand vertically into the ground. Soil samples were tested using a pH Meter and confirmed using a Manutec pH Soil Kit. Tree Protection Zones and Structural Root Zones are calculated using the Australian Standard AS 4970-2009 Protection of Trees on Development Sites. From this information conclusions were drawn.
- 3.3 The tree root zone has been inspected and unless stated in this report are stable except for were stated. The tree has not displayed the normal signs of root plate shear failure on the day of this inspection the 6<sup>th</sup> August 2019. This was a visual inspection only and I have little history of works which involved work in the root zone of the tree which could affect the stability of the tree in the future.

## 4. Site Analysis

- 4.1 The site is located in Belrose on the eastern side of Lockwood Avenue Belrose. The site is a low density commercial property located on sloping ground. The site is considered to be part urban bushland. The site is further than 1km to any area of bushland.
- 4.2 The site is located on Hawkesbury Soils (ha). These soils have the following limitations of extreme soil erosion hazard, mass movement (rock fall hazard), steep slopes, rock out crop, and shallow, stony, highly permeable soil with low soil fertility.
- 4.3 These species of tree normally do well in this soil type. Most trees on the site are not indigenous to this area of Belrose. I stress that my inspection of this site was of an ISA Level 2 Inspection and did not involve any climbing or detailed investigation beyond what was visible from accessible points at ground level.

## 5. Discussion

- 5.1 **Tree 1** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.2 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.3 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the

property as part of the Landscape Plan for the site.

- 5.4 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.5 **Tree 2** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.6 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.7 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.8 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.9 **Tree 3** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.10 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.11 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.12 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.13 **Tree 4** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.14 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.

- 5.15 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.16 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.17 **Tree 5** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.18 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.19 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.20 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.21 **Tree 6** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.22 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.23 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.24 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.25 **Tree 7** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.26 The tree will be severely affected by the proposed development works (See

Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.

- 5.27 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.28 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.29 **Tree 8** (*Cinnamomum camphora* Camphorlaurel) is a tree in fair condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.30 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.31 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.32 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located. The tree is considered a weed species in an urban environment in the Northern Beaches Council area.
- 5.33 **Tree 9** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.34 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.35 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.36 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.37 **Tree 10** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree

on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure

- 5.38 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.39 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.40 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.41 **Tree 11** (*Casuarina glauca* Swamp Oak) is a tree in fair condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.42 The tree will be severely affected by the proposed development (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.43 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.44 The tree has normal vigour and provides visual and environmental amenity to the vicinity it is located.
- 5.45 **Tree 12** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.46 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.47 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.48 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.49 **Tree 12a** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix

1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure

- 5.50 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.51 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.52 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.53 **Tree 12b** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.54 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.55 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.56 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.57 **Tree 13** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.58 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.59 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.60 The tree has good vigour and provides some visual and environmental amenity

to the vicinity it is located.

- 5.61 **Tree 14** (*Corymbia tessellaris* Carbeen) is a tree in fair condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.62 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.63 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.64 The tree has poor vigour and provides no visual and environmental amenity to the vicinity it is located.
- 5.65 **Tree 15** (*Eucalyptus resinfera* Red Mahogany) is a tree in poor condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.66 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.67 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.68 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.69 The tree has poor vigour and provides no visual and environmental amenity to the vicinity it is located.
- 5.70 **Tree 16** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.71 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.

- 5.72 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.73 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.74 **Tree 17** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.75 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.76 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.77 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.78 **Tree 18** (*Casuarina glauca* Swamp Oak) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.79 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.80 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.81 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.82 **Tree 19** (*Angophora floribunda* Rough Bark Apple) is a tree in good condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 2 metres of neighboring infrastructure
- 5.83 The tree will be severely affected by the proposed development works (See

Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.

- 5.84 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.85 The tree has good vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.86 **Tree 20** (*Eucalyptus pilularis* Blackbutt) is a tree in fair condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 5 metres of neighboring infrastructure
- 5.87 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.88 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.89 The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located. The tree is growing on a lean and has decay throughout the crown.
- 5.90 **Tree 21** (*Eucalyptus pilularis* Blackbutt) is a tree in fair condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree was planted within 5 metres of neighboring infrastructure
- 5.91 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.92 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.93 The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.94 Tree 22 (*Eucalyptus Species*) the tree in dead and should be removed
- 5.95 Tree 23 (Eucalyptus pilularis Blackbutt) is a tree in fair condition Appendix 1

gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.

- 5.96 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.97 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site.
- 5.98 The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.99 **Tree 24** Angophora costata (Sydney Red Gum) is a tree in fair condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.100 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.101 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.102 **Tree 25** (*Eucalyptus pilularis* Blackbutt) is a tree in poor condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.103 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.104 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.105 **Tree 26** (*Angophora costata* Sydney Red Gum) is a tree in fair condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.

- 5.106 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.107 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.108 **Tree 27** (*Eucalyptus eugenioidies* Stringybark) is a tree in poor condition, it has been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.109 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.110 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has poor vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.111 **Tree 28** (*Angophora costata* Sydney Red Gum) is a tree in fair condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.112 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.113 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.114 **Tree 29** (*Eucalyptus pilularis* Blackbutt ) the tree is dead and should be removed
- 5.115 **Tree 30** (*Corimbya gummifera* Red Bloodwood) is a tree in fair condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.116 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from

the proposed development works.

- 5.117 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.118 **Tree 31** (*Pittosporum undulatum* Sweet Pittosporum) is a tree in poor condition, it's been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.119 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.120 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.121 **Tree 32** (*Corimbya tessarlaris* Carbeen) is a tree in fair condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.122 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.123 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.124 **Tree 32a** (*Cinnamomum camphora* Camphorlaurel) is a tree in fair condition Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.125 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.126 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and

provides some visual and environmental amenity to the vicinity it is located

- 5.127 **Tree 33** (*Pittosporum undulatum* Sweet Pittosporum) is a tree in poor condition, it's been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.128 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.129 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.130 **Tree 34** (*Eucalyptus eugenioiides* Stringybark) is a tree in poor condition, it's been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.131 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.132 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located.
- 5.133 **Tree 35** (*Pittosporum undulatum* Sweet Pittosporum) is a tree in poor condition, it's been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.134 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.135 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.136 **Tree 36** (*Angophora costata* Sydney Red Gum) is a tree in fair condition. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.

- 5.137 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.138 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.139 **Tree 37** (*Banksia intregrifolia* Coast Banksia) is a tree in fair condition. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.140 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.141 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.142 **Tree 38** (*Banksia intregrifolia* Coast Banksia) is a tree in poor condition, it's been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.143 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.144 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.145 **Tree 39** (*Banksia intregrifolia* Coast Banksia is a tree in poor condition, it's been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.146 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.

- 5.147 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.148 **Tree 40** (*Banksia intregrifolia* Coast Banksia) is a tree in poor condition, it's been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.149 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.150 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.151 **Tree 41** (*Banksia intregrifolia* Coast Banksia) is a tree in poor condition, it's been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.152 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.153 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.154 **Tree 42** (Angophora costata *Sydney Red Gum*) the tree is dead and should be removed
- 5.155 **Tree 43** (*Pittosporum undulatum* Sweet Pittosporum) is a tree in poor condition, it's been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.156 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.157 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and

provides some visual and environmental amenity to the vicinity it is located

- 5.158 **Tree 44** (*Casuarina glauca* Swamp Oak) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.159 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.160 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.161 **Tree 45** (*Casuarina glauca* Swamp Oak) is a tree in poor condition, it's been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.162 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.163 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.164 **Tree 46** (*Casuarina glauca* Swamp Oak) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.165 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.166 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.167 **Tree 47** (*Casuarina glauca* Swamp Oak) is a tree in poor condition, it's been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.

- 5.168 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.169 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.170 **Tree 48** (*Casuarina glauca* Swamp Oak) is a tree in poor condition. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.171 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.172 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.173 **Tree 49** (*Casuarina glauca* Swamp Oak) is a tree in fair condition, it's been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.174 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.175 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.176 Tree 50 (Casuarina glauca Swamp Oak) is dead and should be removed
- 5.177 **Tree 51** (*Casuarina glauca* Swamp Oak) is a tree in poor condition, it's been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.178 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from

the proposed development works.

- 5.179 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.180 **Tree 52** (*Angophora costata* Sydney Red Gum) is a tree in poor condition, it's been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.181 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.182 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.183 **Tree 53** (*Casuarina glauca* Swamp Oak) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.184 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.185 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.186 **Tree 54** (*Casuarina glauca* Swamp Oak) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.187 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.188 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located

- 5.189 **Tree 55** (*Casuarina glauca* Swamp Oak) is a tree in fair condition. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.190 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.191 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.192 **Tree 56** (*Banksia intregrifolia* Coast Banksia) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.193 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.194 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.195 **Tree 57** (*Banksia intregrifolia* Coast Banksia) is a tree in fair condition. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.196 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.197 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.198 **Tree 58** (*Eucalyptus botryoidies* Bangalay) is a tree in fair condition, it's been pollarded. Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.

- 5.199 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.200 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.201 **Tree 59** (*Casuarina glauca* Swamp Oak) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.202 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.203 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.204 **Tree 60** (*Casuarina glauca* Swamp Oak) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.205 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.206 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.207 **Tree 61** (*Casuarina glauca* Swamp Oak) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.208 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.209 It would be considered appropriate tree management that the tree be removed

and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located

- 5.210 **Tree 62** (*Casuarina glauca* Swamp Oak) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site. The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.211 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.212 **Tree 63** (*Melaleuca salignus* White Bottlebrush is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.213 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.214 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.215 **Tree 64** (*Casuarina glauca* Swamp Oak) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.216 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.217 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.218 **Tree 65** (*Angophora costata* Sydney Red Gum) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.

- 5.219 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.220 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.221 **Tree 66** (*Angophora costata* Sydney Red Gum) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.222 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.223 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.224 **Tree 67** (*Angophora costata* Sydney Red Gum) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.225 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.226 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.227 **Tree 67a** (*Eucalyptus pilularis* Black Butt) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.228 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.

- 5.229 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.230 **Tree 68** (*Eucalyptus pilularis* Black Butt) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.231 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.232 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.233 **Tree 69** (*Platanus x hybrida* London Plane Tree ) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.234 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.235 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.236 **Tree 70** (*Eucalyptus haemastoma* Scribbly Gum) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.237 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.238 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.239 Tree 71 (Platanus x hybrida London Plane Tree) is a tree in fair condition,

Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2. Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site..

- 5.240 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.241 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.242 **Tree 72** (*Cyathea australis* Tree Fern) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.243 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.244 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.245 **Tree 73** (*Cupressus species*) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.246 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.247 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.248 **Tree 74** (*Olea africana* Olive Tree) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site...
- 5.249 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily

impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.

- 5.250 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.251 **Tree 75** (*Brachychiton acerifolius* Illawarra Flame Tree) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.252 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.253 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.254 **Tree 76** (*Eucalyptus paniculata* Grey Ironbark) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.255 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.256 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and provides some visual and environmental amenity to the vicinity it is located
- 5.257 **Tree 77** (*Eucalyptus paniculata* Grey Ironbark) is a tree in fair condition, Appendix 1 gives a description of the tree as per AS-4970-2009 Section 2.Appendix 2 shows a photograph of the tree; Appendix 4 indicates the location of the tree on a survey plan of the site.
- 5.258 The tree will be severely affected by the proposed development works (See Appendix 1). The hydrological and soil environments of the tree will be heavily impacted. The TPZ of the tree will have an unacceptable incursion of 50% from the proposed development works.
- 5.259 It would be considered appropriate tree management that the tree be removed and replaced with a more suitable specimen better sited elsewhere on the property as part of the Landscape Plan for the site. The tree has fair vigour and

provides some visual and environmental amenity to the vicinity it is located

## 6.0 Overall Recommendations from Arboricultural assessment and Development impact

- 6.1 All works as advised above are to be carried out so that the proposed construction of a driveway can be constructed and any works on drainage can be carried out.
- 6.2 If any trees are considered by Council to be preserved an AQF 5 Arborist should be on site during all future excavation works near the tree. Furthermore the site arborist should carry out regular inspections to ensure compliance with Appendix 6 AIS.
- 6.3 This will include compliance certifications being issued before construction commences that all tree protection measures are installed, that an AQF Level 5 Arborist is present during excavations to ensure roots are not damaged before further works can be commenced and a compliance certificate is issued prior to further works being carried out and a compliance certificate being issued when the development has been completed before the development can be Occupied. That all tree pruning works if required are carried out as per the Australian Standard AS 4373-2007 Pruning of amenity trees and as per the Code of Practice Amenity Tree Industry August 1998. Works specified in Appendix 7 Arboricultural Impact Statement are to be followed.
- 6.4 That tree works are to be carried out, by a suitably qualified arborist with adequate Public Liability Coverage. The Tree Contractors Association of NSW recommends 20 Million Dollars coverage.

#### Mark Bury

Principal Consultant

Mark Bury Consulting

Tree Number	1
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	15
Crown Spread and (M)	6
Diameter at Brest Height (MM) Tree Root Zone (M)	450 5.4
Diameter at Base Height (MM) Structural Root Zone (M)	610 2.7
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

# Appendix 1 - Tree Schedule

Tree Number	2
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	3
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	4
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	5
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5 2
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	6
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property
Tree Number	7
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Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5 2
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	8
Species	Cinnamomum camphora
Common Name	Camphorlaurel
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	20
Crown Spread and (M)	15
Diameter at Brest Height (MM) Tree Root Zone (M)	1350 15
Diameter at Base Height (MM) Structural Root Zone (M)	1580 <b>4</b>
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Large Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Large Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	The tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	The tree has no Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	9
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	10
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	11
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5 2
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	12
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	12a
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	13
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5 2
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	14
Species	Corimbya tessallaris
Common Name	Carbeen
Vigour	Low vigour- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Poor Condition- Tree is of good habit or misshapen, a form that may be severely restricted for space and light , exhibits symptoms of advanced and irreversible decline such as fungal or bacterial infestation, major dieback in the branch and Foilage crown , structural deterioration from insect damage . Deterioration physically often characterised by a gradual and continuous reduction on vigour but maybe I dependant of a change in vigour but characterised by a proportionate increase in susceptibility to and predation by pests and diseases against which the tree cannot be sustained. Such conditions may also be evident in trees of advanced senescence due to normal phenological processors, without modifications to the growing environment or physical damage having been inflicted upon the tree. This may be dependant from or contributed to by vigour
Height (M)	6
Crown Spread and (M)	3
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	210 1.7
Gradient of Proposed Impact	Development 50% Significant Level of Impact
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia SULE and Significance of a Tree Assessment Rating System IACA Australia System IACA Australia
Heritage/Cultural	The tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	The tree has no Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site ,
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property The tree provides visual amenity to the site

Tree Number	15
Species	Eucalyptus resinfera
Common Name	Red Mahogany
Vigour	Low vigour- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Poor Condition-Tree is of good habit or misshapen, a form that may be severely restricted for space and light, exhibits symptoms of advanced and irreversible decline such as fungal or bacterial infestation, major dieback in the branch and Foilage crown, structural deterioration from insect damage. Deterioration physically often characterised by a gradual and continuous reduction on vigour but maybe I dependant of a change in vigour but characterised by a proportionate increase in susceptibility to and predation by pests and diseases against which the tree cannot be sustained. Such conditions may also be evident in trees of advanced senescence due to normal phenological processors, without modifications to the growing environment or physical damage having been inflicted upon the tree. This may be dependant from or contributed to by vigour
Height (M)	15
Crown Spread and (M)	8
Diameter at Brest Height (MM) Tree Root Zone (M)	410 4.9
Diameter at Base Height (MM) Structural Root Zone (M)	520 2.5
Gradient of Proposed Impact	Development 50% Significant Level of Impact
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Medium Local See in corresponding table in this appendix
Age Class	Over Mature- Tree aged 90-100% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia SULE and Significance of a Tree Assessment Rating System IACA Australia System IACA Australia
Heritage/Cultural	The tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	The tree has no Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site ,
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property The tree provides visual amenity to the site Tree Dead/Dying

Tree Number	16
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	17
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	18
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	19
Species	Angophora floribunda
Common Name	
Vigour	Rough Bark Apple Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	22
Crown Spread and (M)	18
Diameter at Brest Height (MM) Tree Root Zone (M)	950 11.4
Diameter at Base Height (MM) Structural Root Zone (M)	1150 3.5
Gradient of Proposed Impact	50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Large Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Large Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	The tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	The tree has Ecological or Habitat matters
Location to Site Features	The tree will t be required to be removed for the proposed development to be constructed on the site constructed
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	20
Species	Eucalyptus pilularis
Common Name	Black Butt
Vigour	Low vigour- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Poor Condition- Tree is of good habit or misshapen, a form that may be severely restricted for space and light , exhibits symptoms of advanced and irreversible decline such as fungal or bacterial infestation, major dieback in the branch and Foilage crown , structural deterioration from insect damage . Deterioration physically often characterised by a gradual and continuous reduction on vigour but maybe I dependant of a change in vigour but characterised by a proportionate increase in susceptibility to and predation by pests and diseases against which the tree cannot be sustained. Such conditions may also be evident in trees of advanced senescence due to normal phenological processors, without modifications to the growing environment or physical damage having been inflicted upon the tree. This may be dependant from or contributed to by vigour
Height (M)	18
Crown Spread and (M)	15
Diameter at Brest Height (MM) Tree Root Zone (M)	550 6.6
Diameter at Base Height (MM) Structural Root Zone (M)	810 3
Age Class	Development 50% Significant Level of Impact
Gradient of Proposed Impact	Large Small See below for corresponding table in this appendix
Significance for Visual Effects	Medium Local See in corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Over Mature- Tree aged 90-100% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia SULE and Significance of a Tree Assessment Rating System IACA Australia System IACA Australia
Heritage/Cultural	The tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	The tree has no Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site ,The tree has a severe lean and decay though crown
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property The tree provides visual amenity to the site Tree

Tree Number	21
Species	Eucalyptus pilularis
Common Name	Black Butt
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Age Class	Development 50% Significant Level of Impact Unacceptable
Gradient of Proposed Impact	Medium Small See below for corresponding table in this appendix
Significance for Visual Effects	Small Local See in corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site,
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	22
Species	Eucalyptus species
Common Name	Gum
Vigour	Low vigour- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Poor Condition- Tree is of good habit or misshapen, a form that may be severely restricted for space and light, exhibits symptoms of advanced and irreversible decline such as fungal or bacterial infestation, major dieback in the branch and Foilage crown, structural deterioration from insect damage. Deterioration physically often characterised by a gradual and continuous reduction on vigour but maybe I dependant of a change in vigour but characterised by a proportionate increase in susceptibility to and predation by pests and diseases against which the tree cannot be sustained. Such conditions may also be evident in trees of advanced senescence due to normal phenological processors, without modifications to the growing environment or physical damage having been inflicted upon the tree. This may be dependant from or contributed to by vigour
Height (M)	15
Crown Spread and (M)	6
Diameter at Brest Height (MM) Tree Root Zone (M)	350 4.2
Diameter at Base Height (MM) Structural Root Zone (M)	670 2.8
Age Class	50% Significant Level of Impact Unacceptable
Gradient of Proposed Impact	Small Small See below for corresponding table in this appendix
Significance for Visual Effects	Small Local See in corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Over Mature- Tree aged 90-100% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia SULE and Significance of a Tree Assessment Rating System IACA Australia System IACA Australia
Heritage/Cultural	The tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	The tree has Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for development and is in poor condition and should be removed (Dead/Dying)
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property The root system of the tree has been severely affected by soil level changes in the trees development

Tree Number	23
Species	Eucalyptus pilularis
Common Name	Black Butt
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	24
Species	Angophora costata
Common Name	Sydney Red Gum
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	10
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	410 4.9
Diameter at Base Height (MM) Structural Root Zone (M)	620 2.7
Gradient of Proposed Impact	50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	The tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	The tree has no Ecological or Habitat matters
Location to Site Features	The tree will not be required to be removed , The tree should be pruned of deadwood , stubs , epicormic growth and branches with poor tensional strength
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree, See Appendix 4 for the Location of the tree on a survey plan of the property.

Tree Number	25
Species	Eucalyptus pilularis
Common Name	Black Butt
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Age Class	Development 50% Significant Level of Impact Unacceptable
Gradient of Proposed Impact	Medium Small See below for corresponding table in this appendix
Significance for Visual Effects	Small Local See in corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	26
Species	Eucalyptus pilularis
Common Name	Black Butt
Vigour	Low vigour- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	22
Crown Spread and (M)	12
Diameter at Brest Height (MM) Tree Root Zone (M)	770 9.2
Diameter at Base Height (MM) Structural Root Zone (M)	1100 3.4
Gradient of Proposed Impact	Development 50% Significant Level of Impact unacceptable
Significance for Visual Effects	Large Medium See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and	Large Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	27
Species	Eucalyptus eugenioidies
Common Name	Stringybark
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	5
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	250 1.9
Age Class	Mature- Tree aged 20-80% of life expectancy
Gradient of Proposed Impact	Development 50% Significant Level of Impact unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree does have a Ecological and Habitat Significance
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed, Tree has been pollarded
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	28
Species	Eucalyptus pilularis
Common Name	Black Butt
Vigour	Low vigour- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	22
Crown Spread and (M)	12
Diameter at Brest Height (MM) Tree Root Zone (M)	770 9.2
Diameter at Base Height (MM)+ Structural Root Zone (M)	1100 3.4
Age Class	Proposed Development 50% Significant Level of Impact unacceptable
Gradient of Proposed Impact	Large Medium See below for corresponding table in this appendix
Significance for Visual Effects	Large Local See in corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	29
Species	Eucalyptus pilularis
Common Name	Black Butt
Vigour	Low vigour- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	310 3.6
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Age Class	Mature- Tree aged 20-80% of life expectancy
Gradient of Proposed Impact	Less Than 10% Low Level of Impact Unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	30
Species	Corimbya gummifera
Common Name	Red Bloodwood
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	330 4
Diameter at Base Height (MM) Structural Root Zone (M)	580 2.6
Age Class	Mature- Tree aged 20-80% of life expectancy
Gradient of Proposed Impact	Development 50% Significant Level of Impact unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed. Tree has been pollarded
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	31
Species	Pittosporum undulatum
Common Name	Sweet Pittosporum
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	5
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	400 4.8
Diameter at Base Height (MM) Structural Root Zone (M)	350 2.1
Age Class	Mature- Tree aged 20-80% of life expectancy
Gradient of Proposed Impact	Development 50% Level of Impact unacceptable
Significance for Visual Effects	Large Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Large Local See in corresponding table in this appendix
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed. Tree has been pollarded
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	32
Species	Corimbya tessallaris
Common Name	Carbeen
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Age Class	Development 50% Significant Level of Impact Unacceptable
Gradient of Proposed Impact	Small Small See below for corresponding table in this appendix
Significance for Visual Effects	Small Local See in corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site,
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	32a
Species	Cinnamomum camphora
Common Name	Camphorlaurel
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Age Class	Development 50% Significant Level of Impact Unacceptable
Gradient of Proposed Impact	Small Small See below for corresponding table in this appendix
Significance for Visual Effects	Small Local See in corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site,
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	33
Species	Pittosporum undulatum
Common Name	Sweet Pittosporum
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	5
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	400 4.8
Diameter at Base Height (MM) Structural Root Zone (M)	350 2.1
Age Class	Mature- Tree aged 20-80% of life expectancy
Gradient of Proposed Impact	Development 50% Level of Impact unacceptable
Significance for Visual Effects	Large Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Large Local See in corresponding table in this appendix
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed. Tree has been pollarded
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	34
Species	Eucalyptus eugenioidies
Common Name	Stringybark
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Age Class	Development 50% Significant Level of Impact
Gradient of Proposed Impact	Small Small See below for corresponding table in this
Significance for Visual Effects	Small Local See in corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site,
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	35
Species	Pittosporum undulatum
Common Name	Sweet Pittosporum
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	5
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	400 4.8
Diameter at Base Height (MM) Structural Root Zone (M)	350 2.1
Age Class	Mature- Tree aged 20-80% of life expectancy
Gradient of Proposed Impact	Development 50% Level of Impact unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed. Tree has been pollarded
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	36
Species	Angophora costata
Common Name	Sydney Red Gum
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	12
Crown Spread and (M)	10
Diameter at Brest Height (MM) Tree Root Zone (M)	580 7.0
Diameter at Base Height (MM) Structural Root Zone (M)	810 3.0
Age Class	Mature- Tree aged 20-80% of life expectancy
Gradient of Proposed Impact	Development 50% Significant Level of Impact unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Medium Local See in corresponding table in this appendix
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed. Tree has been pollarded
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	37
Species	Banksia intregrifolia
Common Name	Coast Banksia
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	5
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	110 2
Diameter at Base Height (MM) Structural Root Zone (M)	210 1.7
Age Class	Mature- Tree aged 20-80% of life expectancy
Gradient of Proposed Impact	Development 50% Significant Level of Impact unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed.
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	37
Species	Banksia intregrifolia
Common Name	Coast Banksia
Vigour	Low vigour- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Poor Condition- Tree is of good habit or misshapen, a form that may be severely restricted for space and light, exhibits symptoms of advanced and irreversible decline such as fungal or bacterial infestation, major dieback in the branch and Foilage crown, structural deterioration from insect damage. Deterioration physically often characterised by a gradual and continuous reduction on vigour but maybe I dependant of a change in vigour but characterised by a proportionate increase in susceptibility to and predation by pests and diseases against which the tree cannot be sustained. Such conditions may also be evident in trees of advanced senescence due to normal phenological processors, without modifications to the growing environment or physical damage having been inflicted upon the tree. This may be dependant from or contributed to by vigour
Height (M)	5
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	110 2
Diameter at Base Height (MM) Structural Root Zone (M)	210 1.7
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed.
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	38
Species	Banksia intregrifolia
Common Name	Coast Banksia
Vigor	Low vigor- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Poor Condition- Tree is of good habit or misshapen, a form that may be severely restricted for space and light, exhibits symptoms of advanced and irreversible decline such as fungal or bacterial infestation, major dieback in the branch and Foliage crown, structural deterioration from insect damage. Deterioration physically often characterised by a gradual and continuous reduction on vigor but maybe I dependant of a change in vigor but characterised by a proportionate increase in susceptibility to and predation by pests and diseases against which the tree cannot be sustained. Such conditions may also be evident in trees of advanced senescence due to normal phenological processors, without modifications to the growing environment or physical damage having been inflicted upon the tree. This may be dependant from or contributed to by vigor
Height (M)	5
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	110 2
Diameter at Base Height (MM) Structural Root Zone (M)	210 1.7
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed.
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	39
Species	Banksia intregrifolia
Common Name	Coast Banksia
Vigour	Low vigor- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Poor Condition- Tree is of good habit or misshapen, a form that may be severely restricted for space and light, exhibits symptoms of advanced and irreversible decline such as fungal or bacterial infestation, major dieback in the branch and Foliage crown, structural deterioration from insect damage. Deterioration physically often characterised by a gradual and continuous reduction on vigor but maybe I dependant of a change in vigor but characterised by a proportionate increase in susceptibility to and predation by pests and diseases against which the tree cannot be sustained. Such conditions may also be evident in trees of advanced senescence due to normal phenological processors, without modifications to the growing environment or physical damage having been inflicted upon the tree. This may be dependant from or contributed to by vigor
Height (M)	5
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	110 2
Diameter at Base Height (MM) Structural Root Zone (M)	210 1.7
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed.
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property
Tree Number	40
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Species	Banksia intregrifolia
Common Name	Coast Banksias
Vigour	Low vigor- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Poor Condition- Tree is of good habit or misshapen, a form that may be severely restricted for space and light, exhibits symptoms of advanced and irreversible decline such as fungal or bacterial infestation, major dieback in the branch and Foliage crown, structural deterioration from insect damage. Deterioration physically often characterised by a gradual and continuous reduction on vigor but maybe I dependant of a change in vigor but characterised by a proportionate increase in susceptibility to and predation by pests and diseases against which the tree cannot be sustained. Such conditions may also be evident in trees of advanced senescence due to normal phenological processors, without modifications to the growing environment or physical damage having been inflicted upon the tree. This may be dependant from or contributed to by vigor
Height (M)	5
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	110 2
Diameter at Base Height (MM) Structural Root Zone (M)	210 1.7
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed.
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	41
Species	Banksia intregrifolia
Common Name	Coast Banksia
Vigour	Low vigor- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Poor Condition-Tree is of good habit or misshapen, a form that may be severely restricted for space and light, exhibits symptoms of advanced and irreversible decline such as fungal or bacterial infestation, major dieback in the branch and Foliage crown, structural deterioration from insect damage. Deterioration physically often characterised by a gradual and continuous reduction on vigor but maybe I dependant of a change in vigor but characterised by a proportionate increase in susceptibility to and predation by pests and diseases against which the tree cannot be sustained. Such conditions may also be evident in trees of advanced senescence due to normal phenological processors, without modifications to the growing environment or physical damage having been inflicted upon the tree. This may be dependant from or contributed to by vigor
Height (M)	5
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	110 2
Diameter at Base Height (MM) Structural Root Zone (M)	210 1.7
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed.
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	42
Species	Angophora costata
Common Name	Sydney Red Gum
Vigour	Low vigour- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Poor Condition- Tree is of good habit or misshapen, a form that may be severely restricted for space and light, exhibits symptoms of advanced and irreversible decline such as fungal or bacterial infestation, major dieback in the branch and Foilage crown, structural deterioration from insect damage. Deterioration physically often characterised by a gradual and continuous reduction on vigour but maybe I dependant of a change in vigour but characterised by a proportionate increase in susceptibility to and predation by pests and diseases against which the tree cannot be sustained. Such conditions may also be evident in trees of advanced senescence due to normal phenological processors, without modifications to the growing environment or physical damage having been inflicted upon the tree. This may be dependant from or contributed to by vigour
Height (M)	8
Crown Spread and (M)	3
Diameter at Brest Height (MM) Tree Root Zone (M)	550 6.6
Diameter at Base Height (MM) Structural Root Zone (M)	830 3.1
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed.
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	43
Species	Pittosporum undulatum
Common Name	Sweet Pittosporum
Vigour	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	5
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	400 4.8
Diameter at Base Height (MM) Structural Root Zone (M)	350 2.1
Gradient of Proposed Impact	Mature- Tree aged 20-80% of life expectancy
Significance for Visual Effects	Development 50% Level of Impact unacceptable
Significance Matrix for effects on Landscape Character and Features	Large Small See below for corresponding table in this appendix
Age Class	Large Local See in corresponding table in this appendix
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Low –Tree not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has Ecological or Habitat matters
Location to Site Features	The tree cannot be preserved on the site for the proposed development to be constructed. Tree has been pollarded
Other Matters Relevant to Site	See Appendix 2 for a Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	44
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5 2
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site, Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	45
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure. , Tree has been pollarded
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	46
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure. , Tree has been pollarded
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	47
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure. , Tree has been pollarded
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	48
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5 2
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	49
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5 2
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	50
Species	Casuarina glauca
Common Name	Swamp Oak
Vigor	Low vigor- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Poor Condition- Tree is of good habit or misshapen, a form that may be severely restricted for space and light, exhibits symptoms of advanced and irreversible decline such as fungal or bacterial infestation, major dieback in the branch and Foliage crown, structural deterioration from insect damage. Deterioration physically often characterised by a gradual and continuous reduction on vigor but maybe I dependant of a change in vigor but characterised by a proportionate increase in susceptibility to and predation by pests and diseases against which the tree cannot be sustained. Such conditions may also be evident in trees of advanced senescence due to normal phenological processors, without modifications to the growing environment or physical damage having been inflicted upon the tree. This may be dependant from or contributed to by vigor
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site,, Tree has been pollarded and is dead/dying
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	51
Species	Casuarina glauca
Common Name	Swamp Oak
Vigor	Low vigor- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Poor Condition- Tree is of good habit or misshapen, a form that may be severely restricted for space and light, exhibits symptoms of advanced and irreversible decline such as fungal or bacterial infestation, major dieback in the branch and Foliage crown, structural deterioration from insect damage. Deterioration physically often characterised by a gradual and continuous reduction on vigor but maybe I dependant of a change in vigor but characterised by a proportionate increase in susceptibility to and predation by pests and diseases against which the tree cannot be sustained. Such conditions may also be evident in trees of advanced senescence due to normal phenological processors, without modifications to the growing environment or physical damage having been inflicted upon the tree. This may be dependant from or contributed to by vigor
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site,, Tree has been pollarded
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	52
Species	Angophora costata
Common Name	Sydney Red Gum
Vigor	Low vigor- Reduced ability of a tree to sustain its life processors. This may be evident by the a typical growth of leaves, reduced crown cover and reduced crown density, branches, roots and trunk, and a deterioration of their function with reduced resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Poor Condition- Tree is of good habit or misshapen, a form that may be severely restricted for space and light, exhibits symptoms of advanced and irreversible decline such as fungal or bacterial infestation, major dieback in the branch and Foliage crown, structural deterioration from insect damage. Deterioration physically often characterised by a gradual and continuous reduction on vigor but maybe I dependant of a change in vigor but characterised by a proportionate increase in susceptibility to and predation by pests and diseases against which the tree cannot be sustained. Such conditions may also be evident in trees of advanced senescence due to normal phenological processors, without modifications to the growing environment or physical damage having been inflicted upon the tree. This may be dependant from or contributed to by vigor
Height (M)	8
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	210 2.5
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site,, Tree has been pollarded
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	53
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5 2
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	54
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5 2
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	55
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5 2
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	56
Species	Banksia intregrifolia
Common Name	Coast Banksia
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	5
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	310 3.7
Diameter at Base Height (MM) Structural Root Zone (M)	350 2.1
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	SmallSmall See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site,
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	57
Species	Banksia intregrifolia
Common Name	Coast Banksia
Vigour	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	5
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	310 3.7
Diameter at Base Height (MM) Structural Root Zone (M)	350 2.1
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site,
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	58
Species	Eucalyptus botryoidies
Common Name	Bangalay
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	8
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	200 2.4
Diameter at Base Height (MM) Structural Root Zone (M)	250 1.8
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site, Tree has been planted too close to infrastructure
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	59
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5 2
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	60
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5 2
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	61
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5 2
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	62
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	18
Crown Spread and (M)	5 2
Diameter at Brest Height (MM) Tree Root Zone (M)	360 4.3
Diameter at Base Height (MM) Structural Root Zone (M)	380 2.2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	63
Species	Melaleuca salignus
Common Name	White Bottlebrush
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	7
Crown Spread and (M)	7
Diameter at Brest Height (MM) Tree Root Zone (M)	300 3.6
Diameter at Base Height (MM) Structural Root Zone (M)	310 2
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	64
Species	Casuarina glauca
Common Name	Swamp Oak
Vigour	Normal Vigour- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.
Height (M)	22
Crown Spread and (M)	10
Diameter at Brest Height (MM) Tree Root Zone (M)	450 5.3
Diameter at Base Height (MM) Structural Root Zone (M)	780 9.4
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	65
Species	Angophora costata
Common Name	Sydney Red Gum
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	7
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	310 3.73
Diameter at Base Height (MM) Structural Root Zone (M)	320 2.1
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	66
Species	Angophora costata
Common Name	Sydney Red Gum
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	18
Crown Spread and (M)	10
Diameter at Brest Height (MM) Tree Root Zone (M)	410 4.9
Diameter at Base Height (MM) Structural Root Zone (M)	510 2.5
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	67
Species	Angophora costata
Common Name	Sydney Red Gum
Vigour	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	15
Crown Spread and (M)	5
Diameter at Brest Height (MM) Tree Root Zone (M)	310 3.7
Diameter at Base Height (MM) Structural Root Zone (M)	530 2.5
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	67a
Species	Eucalyptus pilularis
Common Name	Blackbutt
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	18
Crown Spread and (M)	15
Diameter at Brest Height (MM) Tree Root Zone (M)	510 6.1
Diameter at Base Height (MM) Structural Root Zone (M)	520 2.5
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	68
Species	Eucalyptus pilularis
Common Name	Black Butt
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	20
Crown Spread and (M)	18
Diameter at Brest Height (MM) Tree Root Zone (M)	980 11.8
Diameter at Base Height (MM) Structural Root Zone (M)	1080 3.4
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Medium Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	69
Species	Platanus x Hybrida
Common Name	London Plane Tree
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	15
Crown Spread and (M)	15
Diameter at Brest Height (MM) Tree Root Zone (M)	900 10.9
Diameter at Base Height (MM) Structural Root Zone (M)	1120 3.3
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Medium Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	70
Species	Eucalyptus haemastoma
Common Name	Scribbly Gum
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	14
Crown Spread and (M)	10
Diameter at Brest Height (MM) Tree Root Zone (M)	550 6.6
Diameter at Base Height (MM) Structural Root Zone (M)	810 3.0
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Medium Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	71
Species	Platanus x Hybrida
Common Name	London Plane Tree
Vigour	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	15
Crown Spread and (M)	15
Diameter at Brest Height (MM) Tree Root Zone (M)	900 10.9
Diameter at Base Height (MM) Structural Root Zone (M)	1120 3.3
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Medium Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Medium Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	72
Species	Cyathea australis
Common Name	Tree Fern
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	4
Crown Spread and (M)	3
Diameter at Brest Height (MM) Tree Root Zone (M)	100 2
Diameter at Base Height (MM) Structural Root Zone (M)	110 1.5
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site; Tree is impacting on adjacent infrastructure.
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	73
Species	Cupressus Species
Common Name	
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.
Height (M)	5
Crown Spread and (M)	2
Diameter at Brest Height (MM) Tree Root Zone (M)	130 1.5
Diameter at Base Height (MM) Structural Root Zone (M)	180 1.6
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable
Significance for Visual Effects	Small Small See below for corresponding table in this appendix
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix
Age Class	Mature- Tree aged 20-80% of life expectancy
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site,
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property

Tree Number	74		
Species	Olea africana		
Common Name	Olive Tree		
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation		
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.		
Height (M)	5		
Crown Spread and (M)	5		
Diameter at Brest Height (MM) Tree Root Zone (M)	100 2		
Diameter at Base Height (MM) Structural Root Zone (M)	110 1.5		
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable		
Significance for Visual Effects	Small Small See below for corresponding table in this appendix		
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix		
Age Class	Mature- Tree aged 20-80% of life expectancy		
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia		
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance		
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters		
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site,		
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property		
Tree Number	75		
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Species	Brachychiton acerifolius		
Common Name	Illawarra Flame Tree		
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation		
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.		
Height (M)	5		
Crown Spread and (M)	1		
Diameter at Brest Height (MM) Tree Root Zone (M)	100 2		
Diameter at Base Height (MM) Structural Root Zone (M)	110 1.5		
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable		
Significance for Visual Effects	Small Small See below for corresponding table in this appendix		
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix		
Age Class	Mature- Tree aged 20-80% of life expectancy		
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia		
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance		
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters		
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site,		
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property		

Tree Number	76		
Species	Eucalyptus paniculata		
Common Name	Grey Ironbark		
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation		
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.		
Height (M)	5		
Crown Spread and (M)	1		
Diameter at Brest Height (MM) Tree Root Zone (M)	100 2		
Diameter at Base Height (MM) Structural Root Zone (M)	110 1.5		
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable		
Significance for Visual Effects	Small Small See below for corresponding table in this appendix		
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix		
Age Class	Mature- Tree aged 20-80% of life expectancy		
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia		
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance		
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters		
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site,		
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property		

Tree Number	77		
Species	Eucalyptus paniculata		
Common Name	Grey Ironbark		
Vigor	Normal Vigor- Ability of a tree to maintain and sustain its life processes. This may be evident by the typical growth of leaves, crown cover and crown density, branches, roots and trunk and resistance to predation. This is independent of the condition of a tree but may impact upon it , and especially the ability of a tree but may impact upon it , and especially the ability of a tree to sustain itself against predation		
Structure	Fair Condition - tree is of good habit or misshapen, a form not severely restricted for space and light has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigor.		
Height (M)	7		
Crown Spread and (M)	2		
Diameter at Brest Height (MM) Tree Root Zone (M)	150 1.5		
Diameter at Base Height (MM) Structural Root Zone (M)	210 1.7		
Gradient of Proposed Impact	Development 50% Significant Level of Impact Unacceptable		
Significance for Visual Effects	Small Small See below for corresponding table in this appendix		
Significance Matrix for effects on Landscape Character and Features	Small Local See in corresponding table in this appendix		
Age Class	Mature- Tree aged 20-80% of life expectancy		
Estimated Life Expectancy Sule Landscape Significance Overall Significance See Attachment 3	3b- Trees that may live for more than 15 years but would be removed for safety or nuisance reasons. Overall Significance. Medium –Tree Not Suitable for Preservation See Appendix 3 SULE and Significance of a Tree Assessment Rating System IACA Australia		
Heritage/Cultural	Tree does not have a Heritage or Cultural Significance		
Ecological and Habitat Matters	Tree has No Ecological or Habitat matters		
Location to Site Features	The tree will be required to be removed for the proposed development to be constructed on the site,		
Other Matters Relevant to Site	See Appendix 2 for Photograph of tree , See Appendix 4 for the Location of the tree on a survey plan of the property		

### 3.2 DETERMINING THE TPZ

The radius of the TPZ is calculated for each tree by multiplying its DBH × 12.

 $TPZ = DBH \times 12$ 

where

DBH = trank diameter measured at 1.4 m above ground

Radius is measured from the centre of the stem at ground level.

A TPZ should not be less than 2 m nor greater than 15 m (except where crown protection is required). Clause 3.3 covers variations to the TPZ.

The TPZ of palms, other monocots, cycads and tree ferns should not be less than 1 m outside the crown projection.

### 3.3 VARIATIONS TO THE TPZ

### 3.3.1 General

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

#### 3.3.2 Minor encroachment

If the proposed encroachment is less than 10% of the area of the TPZ and is outside the SRZ (see Clause 3.3.5), detailed root investigations should not be required. The area lost to this encroachment should be compensated for elsewhere and contiguous with the TPZ. Variations must be made by the project arborist considering relevant factors listed in Clause 3.3.4. The figures in Appendix D demonstrate some examples of possible encroachment into the TPZ up to 10% of the area.

### 3.3.3 Major encroachment

if the proposed encroachment is greater than 10% of the TPZ or inside the SRZ (see Clause 3.3.5), the project arborist must demonstrate that the tree(s) would remain viable. The area lost to this encroachment should be compensated for elsewhere and contiguous with the TPZ. This may require root investigation by non-destructive methods and consideration of relevant factors listed in Clause 3.3.4.

#### ENCROACHMENT INTO TREE PROTECTION ZONE

(Informative)



Encreachment into the use protection zone (TPZ) is sometimes unevoidable. Figure D) provides examples of TPZ encreachment by env. to assist in reducing the impact of such incomism.

The curve can be expressed by the following formula:  $R_{SNZ}=(D\times 50)^{2.42}\times 0.64$ 

NOTES:

- 1 R<sub>SRE</sub> is the structural root zone radius.
- 2 D is the stein diameter measured immediately above root buttress.
- 3 The SRZ for trees less than 0,15 m diamater is 1.5 m.
- 4 The SRZ formula and graph do not apply to palms, other monocots, cycads and tree firms.
- 5. This does not apply to trees with an asymmetrical root plate-

FIGURE 1 STRUCTURAL ROOT ZONE



SIGNIFICANCE MATRIX FOR EFFECTS ON LANDSCAPE CHARACTER AND FEATURES

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## Appendix 2 - Site Photographs

Tree 1 *Casuarina glauca* Swamp Oak



Tree 2 Casuarina glauca Swamp Oak

Tree 3 *Casuarina glauca* Swamp Oak Tree 4 Casuarina glauca Swamp Oak



Tree 5 *Casuarina glauca* Swamp Oak

Tree 6 Casuarina glauca Swamp Oak Tree 7 *Casuarina glauca* Swamp Oak



Tree 8 Cinnamomum camphora Camphorlaurel

Tree 9 *Casuarina glauca* Swamp Oak Tree 10 *Casuarina glauca* Swamp Oak



Tree 11 *Casuarina glauca* Swamp Oak

Tree 12 *Casuarina glauca* Swamp Oak Tree 12a *Casuarina glauca* Swamp Oak



Tree 13 Casuarina glauca Swamp Oak

Tree 14 *Corimbya tessellaris* Carbeen Tree 15 *Eucalyptus resinfera* Red Mahogany



Tree 16 *Casuarina glauca* Swamp Oak

Tree 17 *Casuarina glauca* Swamp Oak Tree 18 *Casuarina glauca* Swamp Oak



Tree 19 Angophora floribunda Rough Bark Apple

Tree 20 *Eucalyptus pilularis* Black Butt Tree 21 *Eucalyptus pilularis* Black Butt





Tree 22 Eucalyptus Species

Tree 23 *Eucalyptus pilularis* Black Butt Tree 24 Angophora costata Sydney Red Gum



Tree 25 *Eucalyptus pilularis* Black Butt

Tree 26 *Eucalyptus pilularis* Black Butt Tree 27 *Eucalyptus eugenioidies* Stringybark



Tree 28 Angophora costata Sydney Red Gum

Tree 29 *Eucalyptus pilularis* Blackbutt Tree 30 *Corimbya gummifera* Red Bloodwood



Tree 31 *Pittosporum undulatum* Sweet Pittosporum

Tree 32 Corimbya *tessellaris* Carbeen Tree 32a *Cinnamomum camphora* Camphorlaurel



Tree 33 *Pittosporum undulatum* Sweet Pittosporum

Tree 34 *Eucalyptus eugenioidies* Stringybark Tree 35 *Pittosporum undulatum* Sweet Pittosporum



Tree 36 Angophora costata Sydney Red Gum

Tree 37 *Banksia intregrifolia* Coast Banksia Tree 38 *Banksia intregrifolia* Coast Banksia



Tree 39 *Banksia intregrifolia* Coast Banksia

Tree 40 *Banksia intregrifolia* Coast Banksia Tree 41 *Banksia intregrifolia* Coast Banksia



Tree 42 Angophora costata Sydney Red Gum

Tree 43 *Pittosporum undulatum* Sweet Pittosporum Tree 44 *Casuarina glauca* Swamp Oak



Tree 45 *Casuarina glauca* Swamp Oak

Tree 46 *Casuarina glauca* Swamp Oak Tree 47 *Casuarina glauca* Swamp Oak





Tree 49 *Casuarina glauca* Swamp Oak Tree 50 *Casuarina glauca* Swamp Oak





Tree 52 Angophora costata Sydney Red Gum Tree 53 *Casuarina glauca* Swamp Oak

Tree 54 *Casuarina glauca* Swamp Oak



Tree 55 *Casuarina glauca* Swamp Oak Tree 56 *Banksia intregrifolia* Coast Banksia

Tree 57 *Banksia intregrifolia* Coast Banksia

Tree 58 *Eucalyptus botryoidies* Bangalay



Tree 59 *Casuarina glauca* Swamp Oak



Tree 60 *Casuarina glauca* Swamp Oak

Tree 61 *Casuarina glauca* Swamp Oak Tree 62 *Casuarina glauca* Swamp Oak



Tree 63 *Melaleuca saligna* White Bottlebrush

Tree 64 *Casuarina glauca* Swamp Oak Tree 65 Angophora costata Sydney Red Gum



Tree 66 Angophora costata Sydney Red Gum

Tree 67 Angophora costata Sydney Red Gum Tree 67a *Eucalyptus pilularis* Black Butt



Tree 68 *Eucalyptus pilularis* Blackbutt

Tree 69 *Platanus x hybrida* London Plane Tree Tree 70 *Eucalyptus haemastoma* Scribbly Gum



Tree 71 *Platanus x hybrida* London Plane Tree

Tree 72 Cyathea australis Tree Fern Tree 73 Cupressus species



Tree 74 *Olea africana* Olive Tree

Tree 75 *Brachychiton acerifolius* Ilawarra Flame Tree



# Appendix 3 - SULE Safe Useful Life Expectancy (Barell 1995)

	1. Long	2. Medium	3. Short	4. Removal	5. Moved or replaced
	Trees that appeared to be retainable at the time of assessment for more than 40 years with an acceptable level of risk.	Trees that appeared to be retainable at the time of assessment for 15 - 40 years with an acceptable level of risk.	Trees that appeared to be retainable at the time of assessment for 5 - 15 years with an acceptable level of risk.	Trees that should be removed within the next 5 years	Trees, which can be reliably moved or replaced.
A	Structurally sound trees located in positions that can accommodate future growth.	Trees that may only live between 15 and 40 years.	Trees that may only live between 5 and 15 more years.	Dead, dying, suppressed or declining trees through disease or inhospitable conditions.	Small trees less than 5m in height.
В	Trees that could be made suitable for retention in the long term by remedial tree care.	Trees that may live for more than 40 years but would be removed for safety or nuisance reasons.	Trees that may live for more than 15 years but would be removed for safety or nuisance reasons.	Dangerous trees through instability or recent loss of adjacent trees.	Young trees less than 15 years old but over 5m in height.
с	Trees of special significance for historical, commemorative or rarity reasons that would warrant extraordinary efforts to secure their long- term retention.	Trees that may live for more than 40 years but would be removed to prevent interference with more suitable individuals or to provide space for new planting.	Trees that may live for more than 15 years but should be removed to prevent interference with more suitable individuals or to provide space for new planting.	Damaged trees through structural defects including cavities, decay, included bark, wounds or poor form.	Trees that have been pruned to artificially control growth.
D		Trees that could be made suitable for retention in the medium term by remedial tree care.	Trees that require substantial remedial tree care and are only suitable for retention in the short term.	Damaged trees that are clearly not safe to retain.	
E				Trees that may live for more than 5 years but should be removed to prevent interference with more suitable individuals or to provide space for new plantings.	
F				Trees that are damaging or may cause damage to existing structures within 5 years.	
G				Trees that will become dangerous after removal of other trees for reasons given in A) to F).	

## Safe Use Life Expectancy (SULE)

SULE is the length of time an Arborist assesses an individual tree can be retained with an acceptable level of risk based on the information available at the time of inspection. SULE is not static and is closely related to tree health and the surrounding conditions. Alterations to the variables may result in changes in the SULE assessment. SULE may have to be reassessed if a significant amount of time passes from the initial inspection to the eventual development. Once a tree survey has been carried out (as described above) the Arborist would then estimate the remaining life expectancy. This can be difficult if it is not known how long a particular species may live for in a particular location, however, the exercise is very useful for categorising which trees have the best chance of long term survival once construction is completed.

### Categories for retention or removal.

The trees in each category could be colour coded both on site plans and on the ground. These categories are adapted and modified from BS5837:1991 and Barrell.

## Category A:

Trees whose retention is most desirable; long safe useful life expectancy - retainable with an acceptable level of risk for more than 40 years+. Long category SULE.

- (i) Structurally sound trees of good form in positions that are compatible with the proposed development and where future growth can be accommodated.
- (ii) Trees for screening or softening the effect of existing structures in the near vicinity, or of particular visual importance to the locality.
- (iii) Trees of special significance for historical, commemorative or rarity reasons that would warrant extraordinary efforts to secure their long term retention.

## Category B:

Trees whose retention is desirable or that would be retainable with an acceptable level of risk for 15-40 years. Moderate category: Medium category SULE.

- (i) Trees that may only live for another 15-40 years.
- (ii) Trees that may live for more than 40 years but which have defects which may lead to their removal within this period.
- (iii) Trees which may live more than 40 years but which would be removed to allow the safe development of more suitable individuals.
- (iv) Storm damaged or defective trees which can be made suitable for retention in the medium term by remedial treatment.
- (v) Immature trees with potential to develop into the high category.
# Category C:

Trees that could be retained or those with an acceptable level of risk for 5-15 years. Short category SULE.

- (i) Trees that may only live for 5-15 years.
- (ii) Trees that may live for more than 15 years but which have defects that would lead to their removal within this period.
- (iii) Trees that may live for more than 15 years but which would be removed to allow the safe development of more suitable individuals.
- (iv) Damaged or defective trees which warrant remedial work for their short term retention.
- (v) Immature trees of no particular merit.

# Category D:

Trees to be removed. Removal category SULE.

- (i) Dead trees.
- (ii) Unstable or structurally defective trees with a high hazard rating.
- (iii) Trees which will be impossible to retain or irreparably damaged by construction activities where no realistic compromise is possible.

Trees can be coded in reports and on site plans e.g. Tree 15. Ficus rubiginosa Category B (ii).

Note: These assessments should be carried out by a suitable qualified and experienced Arborist. (Judy Fakes, 1996)

# Survey:

Peter Castor and John Douglas have both made the point that some species deteriorate more quickly than others. That is, a SULE rating of 5-15 years might not be sensible for a species such as Eucalyptus scoparia which might only have a useful life of some 2 years from when it first shows signs of deterioration. Eucalyptus nicholii in Sydney might also fit into this category. Perhaps it is sensible to recommend the removal of a Chilean Willow as soon as it first displays borer damage. It would not be sensible to apply that standard to a Eucalyptus saligna (Sydney Blue Gum)

# Safe Useful Lifespans

Depending on the pattern of decline (a distinction needs to be drawn between biological life and useful life.

Acacia elata	30-50, decline rapidly if lopped
Acacia parramattensis / decurrens	5-15 years
Acacia binervia (glaucescens) (Costal Myall)	30 – 50
Acacia melanoxylon	50-90 years
Acer negundo	30-50
Acmena smithii	40-70
Agonis flexuosa	30-50
Angophora costata	70-90 (400+ in the bush)
Banksia integrifolia	50-60
Banksia serrata	20-30
Bauhinia galpini	30-50
Betula pendula	7-15
Brachychiton acerifolius	50-70, 10 after lopping
Callistemon viminalis	25
Calodendrum capense	50-70
Castanospermum australis	70
Celtis australis	70
Celtis occidentalis	15
Ceratopetalum gummiferum	90 in the bush Rarely in gardens.
Ceratopetalum apetalum	20
Cinnamomum camphora	90
Corimbya. maculata	50-70
Corimbya citriodora	70-90
Corimbya gummifera	25, if in right location 50
Corimbya. eximia	25, if in right location 70
Cupaniopsis anacardioides	60
Elaeocarpus reticulatus	40
Erythrina x sykesii	15-60
Erythrina crista-galli	30-40
Eucalyptus camaldulensis	70-90
Corimbya ficifolia	15
Eucalyptus globulus subspecies globulus	15-35
Eucalyptus globulus subspecies bicostata	15.35
Eucalyptus microcorys	50-70
Eucalyptus nicholii	35 years
Eucalyptus pilularis	70-90 (100-200 In the bush)
Eucalyptus saligna	70-90 (100-200 In the bush)
Eucalyptus tereticornis	70-90 (150-200)
Ficus macrophylia	90-200
Ficus microcarpa var hillii	30-70 Plus
Ficus rubiginosa	70-200
Fraxinus excelsior	10-30

Gingko Biloba	10-30
Grevillea robusta	35 years, 50 occasionally
Jacaranda mimosifolia	50-70 Plus
Lagerstroemia indica	30-90
Lagunaria patersonia	30-90
Liquidambar styraciflua	30-90
Lophostemon confertus	70 plus
Magnolia grandiflora	70 plus
Melaleuca quinuenervia	70 plus
Melia azedarach	50
Metrosideros excelsior	5-30, 50
Michelia figo	10-20
Morus nigra	50
Olea africana	70
Pistacia chinensis	40
Pittosporum undulatum	25-50
Platanus x hybrida	90 plus
Populus nigra	40- 70 years
Prunus serratifolia	5-35 years
Pyrus calleryana	30-50
Quercus robur	70-160
Robinia pseudoacacia	25-50 years
Salix species	7 Chilean, 30-50 years babylonica, fragilis
Sapium sebiferum	Up to 60
Schinus areira	70
Stenocarpus sinuatus	50
Syncarpia glomulifera	90
Syzigium parvifolia	90
Ulmus	70
Virgilia hupehensis	7 years

#### **References:**

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# Appendix E - Significance of a Tree, Assessment Rating System

#### (STARS) IACA, Australia

#### 1. High Significance in landscape

- The tree is in good condition and good vigour;
- The tree has a form typical for the species;
- The tree is a remnant or is a planted locally indigenous specimen and/or is rare or uncommon in the local area or of botanical interest or of substantial age;
- The tree is listed as a Heritage Item, Threatened Species or part of an Endangered ecological community or listed on Councils significant Tree Register;
- The tree is visually prominent and visible from a considerable distance when viewed from most directions within the landscape due to its size and scale and makes a positive contribution to the local amenity;
- The tree supports social and cultural sentiments or spiritual associations, reflected by the broader population or community group or has commemorative values;
- The tree's growth is unrestricted by above and below ground influences, supporting its ability to reach dimensions typical for the taxa in situ - tree is appropriate to the site conditions.

#### 2. Medium Significance in landscape

- The tree is in fair-good condition and good or low vigour;
- The tree has form typical or atypical of the species;
- The tree is a planted locally indigenous or a common species with its taxa commonly planted in the local area
- The tree is visible from surrounding properties, although not visually prominent as partially
  obstructed by other vegetation or buildings when viewed from the street,
- The tree provides a fair contribution to the visual character and amenity of the local area,
- The tree's growth is moderately restricted by above or below ground influences, reducing its ability to reach dimensions typical for the taxa in situ.

#### 3. Low Significance in landscape

- The tree is in fair-poor condition and good or low vigour;
- The tree has form atypical of the species;
- The tree is not visible or is partly visible from surrounding properties as obstructed by other vegetation or buildings,
- The tree provides a minor contribution or has a negative impact on the visual character and amenity of the local area,
- The tree is a young specimen which may or may not have reached dimension to be protected by local Tree Preservation orders or similar protection mechanisms and can easily be replaced with a suitable specimen,
- The tree's growth is severely restricted by above or below ground influences, unlikely to reach dimensions typical for the taxa in situ - tree is inappropriate to the site conditions,
- The tree is listed as exempt under the provisions of the local Council Tree Preservation Order or similar protection mechanisms,
- The tree has a wound or defect that has potential to become structurally unsound.
- Environmental Pest / Noxious Weed Species
- The tree is an Environmental Pest Species due to its invasiveness or poisonous/ allergenic properties,
- The tree is a declared noxious weed by legislation.
- Hazardous/Irreversible Decline
- The tree is structurally unsound and/or unstable and is considered potentially dangerous,
- The tree is dead, or is in irreversible decline, or has the potential to fail or collapse in full or part in the immediate to short term.

#### The tree is 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.

Landscape Significance						
		1. High 2. Medium 3. Low				
		Significance in landscape		Environmental Pest / Noxious Weed Species	Hazardous / Irreversible Decline	
	1. Long >40 years					
Estimated Life	2. Medium 15-40 years					
Expectancy	3. Short <1-15 years					
	Dead					
	Legend For Matrix Assessment					
	Priority for Retention (High) – These trees are considered important for retention and should be retained and protected. Design modification or re-location of building/s should be considered to accommodate the setbacks as prescribed by the Australian Standard AS4980 Protection of trees on development sites. Tree sensitive construction measures must be implemented e.g. pier and beam etc if works are to proceed within the Tree Protection Zone.					
Consider for Retention (Medium) – These trees may be retained and protected. These are considered less critical; however their retention should remain priority with removal considered only if adversely affecting the proposed building/works and all other alternatives have been considered and exhausted.						
Consider for Removal (Low) – These trees are not considered important for retention, nor require special works or design modification to be implemented for their retention.						
	Priority for Removal – These trees are considered hazardous, or in irreversible decline, or weeds and should be removed irrespective of development.					

# Significance of a Tree, Assessment Rating System cont.







6.9 Architectural Drawings Renders







# Appendix 5 - Brief Qualifications and Experience of Mark Bury

- Qualifications: Diploma of Arboriculture/Horticulture 2005, Advanced Certificate of Management 1995, Graduate Certificate in Parks Management UTS 2001. Advanced Certificate Horticulture TAFE 1986, Hadlington Certificate of Tree Care 1995 Licensed QTRA Practitioner since 2006. International Society of Arboriculture Tree Risk Assessment Qualification 2014. International Society of Arboriculture Certified Arborist 2014, International Society of Arboriculture Certified Municipal Specialist 2015, Completing ISA Board Master Arborist Exam 2016
- 2. Practical experience: Twenty Two (22) years experience as a consulting arborist, 20 years experience in Local Government as a consulting arborist. A Founding member of the Local Government Tree Resources Group which I was Secretary of in 1995.
- **3. Continuing professional development:** Member of International Society of Arboriculture (AU0345A). Member of Australian Institute of Horticulture (MXB0615), attended courses by Jeremy Barrell and Claus Matteck. I attended the update of QTRA certification March 2015 and completed course in Visual Tree Assessment in 2015 and Visual Tree Assessment and Estimating the probability of failure in 2015.
- 4. Relevant experience Twenty Two (22) Years experience as a consulting arborist and Twenty years experience in tree management in local government. Twenty (20) years experience in Local Government assessing development applications in regards to tree management issues. (Councils; Warringah, North Sydney, Mosman, Manly, Ashfield, Pittwater, Marrickville and Hornsby).

With my qualifications and experience I am an AQF 5. Furthermore I have written and published books on Trees and Asset Management, Trees and Real Estate, Planning and Trees and Inherent Failure Patterns of Trees in the Greater Sydney Area.

I have also been a high Level Asset Manager in Local Government for 10 years and have carried out numerous courses in asset management and risk management and developed Council Budgets in this area for a number of years.

I also have lectured at UTS on Asset Management. I have worked in the Industry for 36 years and have carried out major Asset management inventories including trees for large Local Government Areas and developed financial and operations plans to manage assets. Furthermore I have developed, written and implemented asset tree master plans for Ashfield, Pittwater, Hornsby and Marrickville Councils.

#### International Society of Arboriculture Continuing Education Units Completed 2014/2015

General- Arborist Equipment Study Program Tree Risk-Strategies for Preserving Heritage Trees Tree Risk-Mitigation and Reporting Tree Risk-Structural Defects and Conditions Tree Risk-Tree Load: Concept Tree Risk—Loads and Growth Response Tree Risk-Levels of Tree Risk Assessment Tree Risk- Sap Rot Tree Risk- Anchorage: Root Plate Resistance to Failure Tree Risk- Indicators of Decay in Urban Trees Tree Risk- Visual Inspection Prior to Dismantling Urban Forestry-Wildfire and the Role of the Arborist Urban Forestry-Managing Trees during Construction Part 1 and 2 Urban Forestry-Tree Risk Assessment: A Foundation Urban Forestry-Tree Inventories Part 1 and Part 2 Trees & Their Environment- Fertilizing Trees & Shrubs Part 1 and Part 2 Urban Forestry-Root Management Challenges on Urban Sites Urban Forestry-Challenges for the Built Environment Urban Forestry - The Benefit of Trees Urban Forestry- Root Planting Friendly Site Design Urban Forestry- Root Management Challenges on Urban Sites Urban Forestry- Tree Inventories Part 1 Urban Forestry- Tree Inventories Part 2 Urban Forestry- Tree Risk Assessment a Foundation Urban Forestry- Managing Trees during Construction Parts 1 and 2 Urban Forestry- Wildfire and the Role of the Arborist Trees & Their Environment- Soil Properties: Part 1 and Part 2 Trees & Their Environment- Fertilizing Trees & Shrubs Part 1 and Part 2 Trees & Their Environment- Analyse Before You Fertilize Trees & Their Environment- Back to Basics: Tree Fertilization Trees & Their Environment- Slow or Controlled Release Fertilizers Tree Maintenance- Trees & Lightning Tree Maintenance- Cabling Tree Maintenance- Pollarding: What Was Old Is New Again Tree Maintenance- Why Utilities "V-Out" Trees Tree Maintenance- Pruning Trees Part 1: Principles, Objectives & Pruning Types Tree Maintenance- Pruning Trees Part 2: How, Where and How Much Plant Health Care- Plant Health Care Plant Health Care- Maintaining Tree and Turf Associations Plant Health Care- Preserving Trees during the Construction Process Plant Health Care- Mulch Plant Health Care- Preserving trees during the Construction Process Plant Health Care- Trees v Turf Plant Health Care- Resource Allocation Trade Off Plant Health Care- Root System Care Safe Working Practices -Innovations in Climbing Techniques and Equipment Safe Working Practices- Basic Chain Saw Maintenance Safe Working Practices- Felling Techniques Safe Working Practices- Engineering Concepts for Arborists Safe Working Practices- Tree Removals Safe Working Practices- Chain Saw Cutting Techniques Tree Science-Palms just not for the Tropics Tree Science-Damage and Diagnosis Steps to Proper Diagnosis Tree Science- Plant Traits that Resemble Abiotic Disorders Tree Science- Adventitious Roots Occurrence and Management in Trees Tree Science- Cool Trees Surviving Cold Temperatures Tree Science- Identifying Wood Decay and Wood Decay Fungi in Urban Trees Tree Science- How Pests use Bark or Wood as Food Tree Science- How trees get to fat Tree Science- Kissing under the Mistletoe **Biology-Tree Failure Risk Evaluations** 

**Biology-Tree Growth Rings Formation and Form** Biology- Regulating Tree Growth Keeping the Green Side Up Biology- How Wind Affects Trees **Biology- Allelopathy in Trees Biology- Fantasy Facts and Fall Colour** Biology-Blowing in the Wind **Biology-Tree Physiology Biology-Basic Woody Plant Biology** Diagnosis and Treatment- Plant Health Care and the Diagnostic Process Diagnosis and Treatment- Want to be a Better Plant Diagnostician Diagnosis and Treatment- Diagnosing Disease Problems on Trees Diagnosis and Treatment- How Weather Influences Insect and Mite Populations Diagnosis and Treatment- Understanding and Diagnosing Scale Insects Diagnosis and Treatment- Surefire Rules of Diagnosis Diagnosis and Treatment- Diagnosing Abiotic Disorders Tree Selection and Planting- A plant by any Other Name Tree Selection and Planting- Installation and Establishment of Trees and Shrubs Tree Selection and Planting- Ten Keys to Plant and Site Selection Tree Selection and Planting- Tree Transplanting Tree Selection and Planting- Tree Transplanting and Establishment Tree Selection and Planting- Post Planting Maintenance of Trees and Shrubs Tree Selection and Planting- Tree Trunk Protection Tree Selection and Planting- Siting Selecting and Planting Problems Tree Selection and Planting- Girdling Root Formation in Landscape Trees Tree Selection and Planting- Right Tree, Right Location Tree Selection and Planting- Dendrology and Taxonomy Tree and Development The Landscape below Ground

#### International Society of Arboriculture Continuing Education Units Completed 2017

Root Pruning Part 2 Palms: Woody Giants of the Monocots Part 2 Biology and Assessment of Callus and Woundwood Managing Soils That Support Urban Trees Part 1 Palms: Woody Giants of the Monocots Part 1 Tree Injection Part 1 Plant Health Care and Diagnostics Root Management: An Introduction Bark Traits are Important to Tree health and Survival The Cost of Not Maintaining the Urban Forest Flood Tolerant Trees in the Urban Sphere Integrated Vegetation Management Advanced Twig Anatomy Tree Lightning Protection Systems Part 2 Tree Safety

#### **Continuing Education Units Completed 2018**

Managing Soils That Support Urban Trees Part Two Preserving Trees During Construction Arborists and Wildlife Retaining Trees for Wildlife Habitat Understanding Tree Responses to Abiotic and Biotic Stress Complexes Storm Response Part 1 Types of Storms and Their Effects on Trees Storm Response Part 2 Preparing for Safe and Effective Responses to Storms Storm Response Part 3 Effective Response to Large and Small –Scale Storm Emergencies Storm Response Part 4 Unique Aspects :Keeping Employees Safe, Talking to the Media, Saving Damaged Trees, Winding Down, and Lessons Learned Tree Inventories Understanding Tree Responses to Stress Tree Lightning Protection Systems (Part One) Root Management Challenges on Urban Sites Achieving a Healthy Root Crown Balance Root Management Challenges on Urban Sites Human Intervention in Root Development Tree Risk Assessment Structural Defects and Conditions that Affect the Likelihood of Failure Basic Tree Plumbing Translocation Tree Injection (Part 2) Advanced Twig Anatomy Starting Little to Get Big (Part 1) Biology and Identification of Fungi

# Appendix 6 - Tree Management Plan for 11 Glen Road Roseville

# Contents

Pre Construction Inspection	159
Construction Procedure for Trees to be preserved	
Pruning Specifications for Trees Recommended for Preservation	
Construction Procedure for Trees during works	160
Construction Phase Monitoring	
Post Construction Management	

# **Pre Construction Inspection**

The pre construction inspection will be carried out prior to the commencement of any excavation or building works on the proposed development site.

Compliance with the following items will be required before authorization to commence construction will be consented.

# **Construction Procedure for Trees to be preserved**

- 1. Before beginning work, the contractor is required to meet with the consultant at the site to review all work procedures, access routes, storage areas, and tree protection measures.
- 2. Fences have been erected to protect tree to be preserved. Fences define a specific protection zone for the tree. Fences are to remain until all site work has been completed. Fences may not be relocated or removed without the written permission of the consultant.
- 3. Construction trailers and traffic and storage areas must remain outside fenced areas at all times.
- 4. All underground utilities and drain or irrigation lines shall be routed outside the tree protection zone. If lines must traverse the protection area, they shall be tunneled or bored under the tree. The site arborist should be present during any such works.
- 5. No materials, equipment, spoil, or waste or washout water may be deposited, stored, or parked within the tree protection zone (fenced area).
- 6. Additional tree pruning required for clearance during construction must be performed by a gualified arborist and not by construction personnel.
- 7. Any herbicides placed under paving materials must be safe for use around trees and labeled for that use. Any pesticides used on site must be tree-safe and not easily transported by water.

# Pruning Specifications for Trees Recommended for Preservation

- 1. All trees within the project area shall be pruned to:
  - a. Clear the crown of diseased, crossing, weak, and dead wood
  - b. Provide 5 metres of vertical clearance over streets and 3 metres over Sidewalks;
  - c. Remove stubs, cutting outside the wound wood tissue that has Formed around the branch;
  - d. Reduce end weight on heavy, horizontal branches by selectively removing small diameter branches, no greater than 50-100mm near the ends of the scaffolds.
- 2. Where temporary clearance is needed for access, branches shall be tied back to hold them out of the clearance zone. All pruning shall be performed by a qualified arborist with a minimum of 10 Million Dollars public liability insurance. That all tree pruning works are carried out as per the Australian Standard AS 4373-2007 Pruning of amenity trees and as per the Code of Practice Amenity Tree Industry August 1998. Interior branches shall not be stripped out.
- 3. Pruning cuts larger than 100mm in diameter, except for dead wood, shall be avoided.
- 4. Pruning cuts that expose heartwood shall be avoided whenever possible.
- 5. No more than 20 percent of live foliage shall be removed within the tree to be preserved.
- 6. While in the tree, the arborist shall perform and aerial inspection to identify defects that require treatment. Any additional work needed shall be reported to the consultant.
- 7. Brush shall be chipped and chips shall be spread underneath trees within the tree protection zone to a maximum depth of 200mm, leaving the trunk clear of mulch.

#### **Construction Procedure for Trees during works**

- 1. The site arborist is to be present during any excavation works adjacent any trees on the site. This is required to specify and supervise any horticultural works that should be carried out to any nominated tree for retention.
- 2. If injury should occur to any tree during construction, it should be evaluated as soon as possible by the site arborist so that appropriate treatments can be applied.
- 3. Any grading, construction, demolition, or other work that is expected to encounter tree roots must be monitored by the consulting arborist.
- 4. The tree shall be irrigated on a schedule to be determined by the consultant. Each irrigation shall wet the soil within the tree protection zone to a depth of 100mm.

Page 160 of 181

- 5. Erosion control devices such as silt fencing, debris basins, and Water diversion structures shall be installed to prevent siltation and or erosion within the tree protection zone.
- 6. Before grading, pad preparation, or excavation for foundations, footings, walls, or trenching, they shall be 300mm outside the tree protection zone by cutting all roots cleanly to a depth of 800mm. Roots shall be cut by manually digging a trench and cutting exposed roots with a saw, vibrating knife, rock saw, and narrow trencher with sharp blades, or other approved root-pruning equipment.
- 7. Any roots damaged during grading or construction shall be exposed to sound tissue and cut cleanly with a saw.
- 8. Spoil from trenches, basements, or other excavations shall not be placed within the tree protection zone either temporarily or permanently.
- 9. No burn piles or debris pits shall be placed within the tree protection zone. No ashes, debris, or garbage maybe dumped or buried within the tree protection zone.
- 10. Maintain fire-safe areas around fenced areas. Also, no heat sources, flames, Ignition sources or smoking is allowed near mulch or trees.

These inspections will be carried out on an as needed requirement. It recommended that all excavations near trees be carried out together to reduce costs for the client.

# **Construction Phase Monitoring**

Fortnightly inspections will be required to observe six major areas during the construction phase.

- **Maintain the tree protection zone.** Maintaining the integrity of the tree protection zone is the single most important factor in protecting trees from excessive damage. Space often is at a premium on construction sites and the open areas denied by the tree protection zone are attractive locations for all types of activities that can cause damage to trees, including storing materials, Parking vehicles and dumping waste.
- Assist with changes in the field. Few projects proceed without changes in the field. This occurs for a variety of reasons. Plans and field situations may not match, and work must occur closer to the tree than planned. Alternatively, an item may have escaped notice or was not discovered until construction. The Consultant must participate in the decisions that could affect trees.
- Monitor tree health and conditions and specifying appropriate treatments. Sometimes, even with a comprehensive tree protection plan, trees are accidentally damaged. The consultant must be available to recommend mitigations and appropriate actions when damage has occurred. Similarly, changes in water status, pest populations, etc. must be identified early so treatments can be applied.

- **Communicate with the project superintendent and contractors.** In our experience, one of the most critical factors in the success of a tree preservation project is the commitment of the project superintendent who manages all on-site construction activity. The superintendent's interest and willingness to support tree preservation actions (for example, honouring the tree protection zone) is vital. The consultant must acknowledge the range of demands for time and money facing the superintendent in completing the project and establish an effective means of communication and cooperation at the site.
- Help identify appropriate work procedures around trees. The arborist should talk with the project superintendent and contractors to identify work Procedures that are effective for all parties and minimize impacts to trees. The Consultant can help identify locations for haul roads that avoid trees while providing adequate turn and back-up zones for equipment.
- **Facilitate completion of the project.** Once a project is approved and Construction begun, one of the consultant's responsibilities is to help complete the project in a timely manner. This is not done at the expense of adequate tree protection, but in a spirit of cooperation.

## Post Construction Management

## Tree Maintenance program: Care of trees following construction

The management of preserved trees following construction must encompass the needs of both individual trees and the forest remnants they comprise. The following Tree Maintenance areas will be inspected for compliance on an annual basis following the completion of works for 2 years.

#### Caring for Individual Trees

The program of post construction care for individual trees focuses on the normal goals of any tree management effort such as maintenance of vigour and structural stability. For trees to remain assets to the community, they must remain in good condition with low potential for failure. We address these goals by treating the tree itself (pruning, pest management) and the environment around the tree (mulch, irrigation). Overall, we strive to avoid any factors that predispose the tree to attack by pests and loss of wood through decay.

The most common remedial actions recommended for trees impacted by construction include the treatments described below.

#### Irrigation

Trees that have suffered loss of roots may not be able to exploit as large a soil volume as they did before injury. Alternatively, changed patterns of drainage across a site may divert water into new drainage patterns, away from trees. In either case, trees may benefit from supplemental irrigation. The following are general guidelines.

- The amount of water applied must be appropriate to the needs of the individual species.
- Light, frequent irrigations should be avoided. Irrigation should wet the entire root zone and be allowed to dry before another application.
- Excess irrigation from new landscapes should be avoided. Runoff from plantings should be minimized and/or directed away from trees.
- Wetting the trunk should be avoided.

Another approach is to reduce water loss by misting the canopy. In this technique, fine sprays of water are applied throughout the canopy on regular, relatively continuous intervals. The mist appears to raise humidity and reduce air temperature within the canopy, thereby reducing water loss. Shrader (1996) considered this treatment instrumental in the survival of transplanted oaks in Florida.

## Pruning

Trees on construction sites should be inspected annually to determine pruning requirements. Pruning may be required for one of two reasons. First, crowns may need to have dead, dying, diseased, broken, and otherwise structurally weak branches removed.

This pruning may also involve reducing the size of the crown where dieback is extensive. Second, crowns may be thinned to reduce the amount of canopy exposed to wind and to balance weight among branches.

Arborists have long debated the value of pruning the crown as a way of compensating for loss of roots; however, there is no scientific evidence to support this practice. Watson (1991) notes"... no research has been published to demonstrate the effectiveness (of crown reduction pruning) on mature trees." Harris (1992) notes, "As with most things, moderation would appear to be wise in caring for root-damaged trees."

Our recommendation is that arborists not attempt to balance root loss by reducing the size of the crown. Rather, we recommend that the health and structure of the tree be monitored and appropriate pruning actions be applied.

Where scaffolding is required it should be erected outside the TPZ. Where it is essential for scaffolding to be erected within the TPZ branch removal should be minimized. This can be achieved by designing scaffolding to avoid branches or tying back branches. Ground below the scaffolding should be protected by boarding (e.g. scaffolding board or plywood sheeting as shown. Where access is required a board walk or other surface material should be installed to minimise sheeting to prevent soil contamination. The boarding should be left in place until the scaffolding is removed.

Note: 1 For teach, and branch crotection use losents and packing that will prevent damage to teak. Description branch are to be strapped to treas, not naive or screwed. 2 Rimthe branch alread the a sublishe that were to prevent and compaction and not demage." (Excerpt from AS4970 2009)



## Mulch

Trees preserved on construction sites generally will benefit from having a 100- to -200 mm layer of organic mulch beneath the canopy. The mulch will reduce loss of moisture from the soil, protect against compaction, and moderate soil temperatures. It also has been demonstrated that the addition of mulch reduces soil compaction over time (see section on remedial soil treatment).

We normally specify that brush from pruning be chipped and spread under the crown. Mulch depth should be adjusted so that only 1 to 2 inches is placed against the trunk of the tree.

#### Fertilisation

Arborists are not in agreement about the value of supplemental fertilization to trees preserved on construction sites. A consistent benefit to such treatment has not been demonstrated by scientific research. Because trees growing in forests settings do not usually exhibit any symptoms of nutrient deficiency, we might surmise that mineral elements are not lacking in the soil and, therefore, supplementing those nutrients following root injury is not necessary. Although applications of supplemental fertilizer have resulted in increased growth of trees in forest stands, trees preserved on development sites are no longer strictly forest trees. Historical patterns of nutrient cycling are disrupted as soil, litter, and woody debris is removed; mycorrhizal associations are altered; and Patterns of water movement through the profile and across the site are changed. Moreover, we expect trees in landscape settings to be healthier than those in woodland environments. In addition, there is significant anecdotal evidence regarding the benefits of supplemental fertilization. We assume that the ability of trees on construction sites to absorb water and mineral nutrients has been reduced due to injury and root compaction. Providing supplemental fertilization, therefore, allows the trees to absorb necessary elements with a limited root system. Trees that were previously growing in urban landscapes or without maintenance may benefit from fertilization.

## Pest Management

Tree death often follows a pattern of weakening by predisposing stresses, such as injury from construction, followed by attack from opportunistic pests and pathogens. For example, the two lined chestnut borer attacks oak trees that have been weakened by biotic or environmental stress (Dunn et al. 1990). Oak trees that have been mechanically wounded are predisposed to attack by *Armillaria* (Svihra 1991). Construction activity has been associated with decline of white pine (Weaver and Stipes 1988) and with increased occurrence of oak wilt (Miller et al. 1993).

Pest Management is an important part of a post-construction maintenance program. Developing pest management programs for preserved trees involves:

- Knowledge of the tree species and its pattern(s) of decline and death
- Treating the tree to enhance vigour and/or avoid predisposition (e.g., Supplemental irrigation, timing of pruning)
- Monitoring for the presence of pests
- Applying preventive control treatments

Because trees impacted by construction are more susceptible to pests, managers need to be vigilant about pest management programs. Particular attention must be paid to monitoring for pest and to application of control procedures. Thresholds for treatment may be more conservative on infested trees than for undisturbed trees. Under normal circumstances, the action threshold for control procedures might be defoliation of 30 percent of the crown. For trees impacted by development activity, a threshold of 15 to 20 percent defoliation would be more appropriate.

# Removing fill soil

In situations where grades have been raised within the dripline, the fill soil should be removed to original grade. If the entire root area cannot be cleared of fill, a minimum 1.5-foot radius around the trunk should be returned to natural grade. In some cases, a small retaining wall may be necessary. Drainage must be provided to ensure that water does not collect at the base of the trunk. Removal of fill soil should occur by hand, especially within 3 metres of the trunk.

# Remediation of Soils Damaged During Construction

The structure of soils on development sites is often altered during the construction process. Soils are compacted to provide a stable base for structures, as vehicles move across the site, and when utilities and other improvements are installed. Miller (1996) noted, however, that "compaction" is often used as a catch-all term for soil disturbances including kneading, churning, rutting, and displacement. By whatever means it is accomplished, compaction results in increased soil density and decreased porosity. It is and unfavorable environment for roots as well as soil micro flora.

Consultants are frequently asked to recommend treatments that will quickly reduce compaction and improve structure. Rolf (1992a), Day and Bassuk (1994), and Smiley (1996) reviewed possible amelioration treatments. Solutions such as tillage and subsoling are not appropriate on development sites where large trees are already present. In post construction situations, four treatment options are available.

- Holes and fractures can be created to increase air space. This is accomplished by injecting high-pressure water or air and physically auguring openings. In some cases, voids are filled with porous material such as sand or gravel, a process known as vertical mulching.
- Soil is removed from radically oriented trenches and replaced with porous soil material. Removal may be achieved either by backhoe and other mechanical methods or by hydro excavation (Gross 1995).
- Organic mulch can be placed around the tree beneath the canopy.
- The tree can be treated with growth regulators such as paclobutrazol (Watson 1996).

The experimental results from examining the effectiveness of the numerous possible remediation treatments are ambiguous. However, three treatments appear to provide clear benefits. First, mulching the soil beneath the canopy with organic mulch is beneficial. Smiley (1996) notes"... the most dramatic results I have ever seen in a soil compaction experiment came from using mulch by itself. "Smiley (1996) also demonstrated improvements in trunk growth of Crepe Myrtle and Callery Pear trees in a compacted soil setting. Second, the soil removal and replacement technique has resulted in clear improvements in tree growth (Watson et al. 1996.Watson 1996, Smiley 1996). In Watson's work, however, the soils involved were not described as compacted at the start of the project. Third, Watson (1996) demonstrated increased root development of declining white oak trees from application of paclobutrazol.

Other experiments using vertical mulching (drilling holes in the soil and filling them with mulch material) of all types, treatment with bistimulants, aeration, and other methods have yielded either inconsistent or negative results for either soil characteristics or tree health. The exception to this has been the work of Rolf (1992b and 1994), which focused on remediation treatments in improving growing conditions of new plantings. It is clear that prevention and avoidance are the key elements in dealing with soil compaction and related degradations in structure on development sites. Consultants have limited ability to provide effective long-lasting treatments. As Rolf (1992a) noted, "There are no perfect methods for aeration around trees in limited spaces and where vegetation is already established."

# **Design and Documentation Considerations**

Impacts to tree	Construction Activity	Methods/Treatments to minimise damage.
Root Loss	Stripping site of organic surface soil before grading; clearing unwanted vegetation; demolishing existing structures	<ul> <li>Restrict stripping of topsoil around trees</li> <li>Install fences to protect trees from injury</li> <li>Any woody vegetation to be removed adjacent to trees to remain should be cut at ground level and not pulled out by equipment; otherwise, root injury to remaining trees may result. Arborist may be needed for adjacent tree removal if crowns are intertwined.</li> </ul>
	Lowering grade, scarifying, preparing sub grade for fill and structures	<ul> <li>Before grading, root prune tree at edge of excavation to depth required.</li> <li>Spoil beyond cut face can be removed by equipment sitting outside the dripline of the tree</li> <li>Use retaining walls with discontinuous footings to increase the distance that natural grade is maintained from trunk.</li> </ul>
	Preparing sub grade for pavement	<ul> <li>Use paving section requiring a minimum amount of excavation (e.g., reinforced concrete instead of asphalt).</li> <li>To minimize thickness of pavement section, design, traffic patterns to avoid heavy loads adjacent to trees.</li> <li>Increase strength of pavement to reduce reliance on sub grade for strength (e.g., use extra reinforcement in concrete, geotextile under base material).</li> </ul>

Impacts to tree	Construction Activity	Methods/Treatments to minimise damage.
	Excavations for footings, walls , foundations	<ul> <li>Avoid continuous footings adjacent to trees</li> <li>Use pier foundations with grade beam above grade instead of slab foundations</li> <li>Orient piers to avoid major roots.</li> <li>Excavate by hand, bridging roots where possible.</li> <li>Where roots must be removed, cut cleanly with appropriate equipment (e.g. rock saw). Do not use equipment that pulls and shatters roots (eg. Backhoe, trencher).</li> </ul>
	Trenching for utilities, drains	<ul> <li>Where roots must be removed, cut cleanly with appropriate equipment (e.g. rock saw). Do not use equipment that pulls and shatters roots (eg. Backhoe, trencher).</li> <li>* Avoid open trenching in root</li> </ul>
		area * Tunnel under roots, if possible. * If not, within root area, dig trench by hand, bridging roots greater than 250mm diameter. Consolidate utilities into one trench.
Wounding crown of tree	Injury from equipment	<ul> <li>Fence trees to enclose low branches and protect trunk.</li> <li>Clean up wounds as soon as possible</li> <li>Prune to minimum height required prior to construction.</li> </ul>

Impacts to tree	Construction Activity	Methods/Treatments to minimise damage.	
	Creating clearance for building, traffic, construction equipment	<ul> <li>Consider minimum height requirements of construction equipment and emergency vehicles over roads.</li> <li>All pruning should be performed by a Certified arborist and conform to ANSI pruning standards.</li> </ul>	
Unfavorable conditions for root growth; chronic stress from reduced root systems	Compacted surface soils	<ul> <li>Fence trees to keep traffic and storage out of root area</li> <li>Provide a storage yard and traffic areas for construction activity for construction activity well away from trees.</li> <li>Where traffic cannot be diverted, protect soil surface with thick mulch or steel plates.</li> </ul>	
	Spills, waste disposal (e.g., paint, oil, fuel)	Clean up accidental spills immediately.	
	Soil Sterilants (herbicides) applied under pavement	Use herbicides safe for use around trees. Adhere to label requirements	
	Impervious pavement over soil surface	Minimize use of pavement within dripline	
Inadequate soil moisture	Rechannelization of stream flow; redirecting runoff, lowering water table; lowering grade	<ul> <li>Consider system to allow low flow through normal stream alignments and provide bypass into storm drains for peak flow.</li> <li>Provide supplemental irrigation in similar volumes and seasonal distribution as would normally occur.</li> </ul>	

Impacts to tree	Construction Activity	Methods/Treatments to minimise damage.
Excess Soil Moisture	Underground Flow backup; raising water table	<ul> <li>Fills placed across drainage courses must have culverts placed at the bottom of the low flow so that water is not backed up upstream.</li> <li>Study the geotechnical report for ground water characteristics to see that walls and fills will not intercept underground flow.</li> </ul>
	Lack of Surface drainage away from tree	<ul> <li>Where surface grades are to be modified, make sure that water will flow away from the trunk (i.e., that the trunk is not the lowest point). If tree is in low point, design drain system with lest impact to roots.</li> </ul>
	Irrigation of exotic landscape	<ul> <li>Match irrigation requirements of tree and understory landscape to avoid over irrigation.</li> </ul>



#### Legend

- 1. Chain wire mesh panels with shade cloth (if required) attached, held in place with concrete feet.
- 2. Alternative plywood or wooden paling fence panels. This fencing material also prevents building materials or soil entering the TPZ.
- 3. Mulch installation across surface of TPZ (at the discretion of the project arborist). No excavation construction activity, grade changes, surface treatment or storage of materials of any kind is permitted within the TPZ.
- 4. Bracing is permissible within the TPZ. Installation of supports should avoid damaging roots.



NOTES:

- 1 For trunk and branch protection use boards and padding that will prevent damage to bark. Boards are to be strapped to trees, not nailed or screwed.
- 2 Rumble boards should be of a suitable thickness to prevent soil compaction and root damage.

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## Appendix 9 - Arborist Report Required

A report by a qualified arborist shall be prepared detailing the position, species, height, truck diameter and canopy spread of existing trees on or adjacent to the site, and a detailed analysis of the conditional and health of these trees. The trees are to be clearly numbered in the report.

The report is to provide a tree location plan which is easily legible, at a suitable scale of not less than 1:200, indicating the trees and tree numbers.

Information is to be provided detailing trees proposed to be removed and trees to be retained in regard to the proposal, full reasons for recommending removal, including development impacts, tree condition, relevant structural testing or other relevant arboricultural analysis supporting the conclusions. Unsubstantiated observations, analysis or opinion is not acceptable.

The report shall also provide an analysis of the impacts of the proposal on existing trees both on the site and adjacent to the site.

The report shall address, the viability of tree retention, and methods by which adverse impacts of the proposal on trees if any may be avoided.

The report shall reference and use the standards and principals as set out in AS4970-2009 Protection of Trees on Development Sites.

# Appendix 10 Glossary

**Appropriate Tree Management** - The management of trees as a resource based on sound professional judgement and a competent understanding of what trees to plant where and when or when to remove or retain a tree

- The planting or retention of a tree in a position that causes minimal or no conflict with people or property or disturbance of the built environment or services or infrastructure, due to such a decision having been founded upon a competent knowledge of the characteristics of the trees growth pattern and ultimate dimensions above and below ground at maturity, and the suitability of space available into which it will develop
- 2. The removal of a tree that will grow to be in conflict with the constraints of its growing environment either above or below ground at its ultimate dimensions. At maturity and especially where replanting could be undertaken with an advanced specimen of species of more suitable growth characteristics and mature dimensions
- 3. The removal of a vigorous tree in a poor condition in a prominent position where its potential failure in full or part poses a risk of hazard to the safety of people or damage to property

**Assessment** -Criterion to estimate or determine the value or magnitude of a tree for its monetary or intros tic worth to assist with its management considering many different attributes eg age, amenity value, significance, condition, form, viability, safety, vigour, symmetry, defects

**Body Language of trees** - Apparent typical growth patterns in a tree or atypical growth patterns resulting from deformation of growth in response to loading by mechanical stresses (Lonsdale 1999, p, 311)

**Branch failure**- the structural collapse of a branch that is physically weakened by wounding or from the actions of pests and diseases or overcome by loading forces in excess of its load bearing capacity

**Condition** - A trees crown form and growth habit as modified by its environment ( aspect suppression by other trees , soils ), the stability and viability of a root plate , trunk and structural branches , including structural defects such as wounds cavities or hollows, crooked trunk/branch junctions and the effects of predation by pests and diseases. These may not be directly connected with vigour and it is possible for a tree to be of normal to be of normal vigour but in poor condition. Condition can be categorised as good condition, fair condition, poor condition and dead.

**Consequential removal** - Removal of a tree as a result of increased exposure following changes to its growing environment above or below ground where its retention may render it vulnerable to failure in full or part posing a safety risk

Page 177 of 181

28 Lockwood Avenue Belrose NSW

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**Consulting Arborist** - A professional arboriculturalist in a private practice providing a broad range of information and report services to clients regarding trees , usually in urban environments, including tree care, hazard assessment, scientific testing, research, planning, inventories, maintenance and management, building development, human issues, and specialist Arboricultural advice and multi-discipline support to other professions.

**Critical Root Zone (CRZ)** A method that considers a minimum radial distance from the trunk that disturbance to structural roots may occur for a tree to remain stable. For this method , satisfactory setbacks are usually considered at five times (5x) DBH with a minimum setback of 1.5 m tree/s with a trunk diameter of less than 300mm ( <300mm DBH) with the possibility of limited elevated construction as an incursion into the area after further structural root examination , however , this does not consider age condition and vigour

**Danger**- Potential for a trees imminent failure and collapse in full or part, posing an immediate risk of hazard to the safety of people or damage to property. Danger is often a result of physical deterioration of a tree or tree part and its structure or modification to the growing environmental essential for its survival or physical stability.

**Deadwood** - Dead branches within a trees crown and considered quantitatively as separate to crown cover and can be categorised as small deadwood and large deadwood according to diameter, length and subsequent risk potential, The amount of dead branches on a tree can be categorised as low Volume deadwood, medium volume deadwood and high volume see also Dieback.

**Deadwooding** - Removing of dead branches by pruning. Such pruning may assist in the prevention of the spread of decay from dieback or for reasons of safety near an identifiable target.

**Decay** - Process of degradation of wood by micro - organisms (Australian Standard 2007, p. 6) and fungus

**Decline** - The response of the tree to a reduction of energy levels resulting from stress. Recovery from a decline is difficult and slow and decline usually irreversible.

**Dieback-** The death of some areas of the crown. Symptoms are leaf drop , bare twigs, dead branches and tree death , respectively, this can be caused by root damage, root disease , bacterial or fungal canker, severe bark damage, intensive grazing by insects, abrupt changes in growth conditions , drought , water- logging or over maturity. Dieback often implies reduced resistance stress or decline which may be temporary. Dieback can be categorised as low volume dieback, medium volume dieback and high volume dieback.

**Dieback Wound** - Wounding where dieback extends beyond a branch collar as with natural pruning and extends to other branches trunk or roots

**Drop zone** - the distance away from a tree that may be physically influenced by a falling branch

Page 178 of 181

28 Lockwood Avenue Belrose NSW

Prepared by Mark Bury Consulting

**Fall Zone** - The distance away from a tree that may be physically influenced if it was cut down or subject to collapse

**Failure** - the structural collapse in part of a branch or tree that has been physically diminished by wounding or from actions of pests and diseases or overcome by loading forces in excess of its load- bearing capacity including the subsequent loss of soil cohesion respectively

**Hazard** - The threat of danger to people or property from a tree or tree part resulting from changes in the physical condition, growing environment, or existing physical attributes of the tree eg included bark soil erosion or thorns or poisonous parts, respectively.

**Hazard abatement** - Action taken to reduce the potential failure of a tree in full or part by its growth to built structures decreasing the risk of injury to people or damage to property.

**Hazard Assessment -** A tree assessment to determine the structural integrity stability viability or suitability of a tree for its retention in situ, remedial works or removal by identifying and analysing potential targets and the likely risk for failure or collapse in full or part or disruption to growth affecting those targets over periods of time.

**Inappropriate tree management** - The planting or retention of trees where its known that the tree will outgrow the space available for its growth above or below ground before or at maturity and is likely to cause disruption or damage to built structures, or retention of a tree when it is known to present a potential hazard to people or property

**Included Bark - 1**. The bark on the inner side of the branch union, or is within a conclave crotch that is unable to be lost from the tree and accumulates or is trapped by acutely divergent branches forming a compression fork **2**. Growth of the bark at the interface of two or more branches on the inner side of a branch union or on a crotch where each branch forms a branch collar and the collars roll past one another without forming a graft where no one collar is able to subsume the other . Risk of failure is worsened in some taxa where branching is acutely divergent or acutely convergent and ascending or erect

**Infrastructure** - The basic facilities services and installations needed for the functioning of the community such as roads transportation and communication systems water and power lines and public institutions including schools post offices and prisons

**Isolated tree – 1.** A tree growing as a solitary specimen in an exposed location away from other trees as a result of natural or artificial causes and may be naturally occurring

**2.** A tree planted as a solitary specimen in an exposed location away from other trees. Trees that become isolated as a result of changes in their growing environment may adjust over time to survive or may decline or succumb to the problems of exposure

**Large deadwood** - A dead branch > 10mm diameter and > 2 m long generally considered of high risk potential

**Large Tree**- A dead branch > 20 m or a crown spread > 20 m at maturity in situ.

Page 179 of 181

28 Lockwood Avenue Belrose NSW

Prepared by Mark Bury Consulting

**Natural pruning-** Shedding of branches usually through their compartmentalisation after injury or overshadowing. This can occur when a branch becomes inefficient as a source of photosynthesis, progressively becoming thinned of Foilage, eventually dying off being ultimately shed from the tree often after it has decayed and breaking near the branch collar

**Pruning-** removal of any branch or root dead or alive by severance across the stem, back to the intersection of another live stem to a swollen area at the intersection called a Branch collar where such a structure exists with a final cut at the outer edge if the collar leaving no stub or to in damaged woody tissue for roots. Also the severing of any part of a tree so as to cause a reduction of the air space occupied by the branches and Foilage in the crown or roots in the root plate. Examples of pruning are deadwooding, crown thinning, formative pruning, reduction pruning, selective pruning, crown thinning, and remedial and restorative pruning (Australian Standards 2007, p, 6) AS 4373 'Pruning of Amenity Trees'.

**Risk** - The random or potentially foreseeable of an episode causing harm or damage

**Sheer Failure** - A plane of weakness within a structure (Mattheck and Breloar 1994) Sudden Branch Drop- The failure and collapse of live usually horizontal branches, seemingly without noticeable cause in calm hot dry weather conditions generally after rain. Theorised to be caused by altered moisture content on the branch disturbing the longitudinal ore stressing of the wood that normally helps support the load as formed by reaction wood in branches tending to horizontal (Lonsdale 1999, p.30)

**Target** - people or property likely to be harmed or damaged respectively by being struck by a failed or collapsed tree in full or part

**Tree Management** - Planned protection , conservation , maintenance and enhancement of a population of trees usually achieved by recognising trees as a dynamic natural resource and professional Arboricultual personnel and a multidisciplinary approach gaining an ongoing understanding of diverse aspects of the population : age class ; maintenance , removal and replacement cycles and costs , additional new planting opportunities and costs sustainability , safety constraints community concerns budgetary constraints ecological amenity and utility values , suitability and appropriateness of tree maintenance , removal and replacement or retention

**Tree Preservation** - An ordinance made under planning legislation to protect trees generally or specifically for their importance for amenity heritage landscape environmental and nature conservation.

**Urban Forestry** - management of the entire population of trees and woody shrubs in an urban environment recognising them as critical elements of urban infrastructure providing physiological sociological, economic and aesthic benefit.

**Viability** - Ability of a tree to sustain its life processes. This is independent of the condition of a tree but may impact upon it. Vigour can appear to alter rapidly with change of seasons Vigour can be categorised as normal vigour, high vigour, low vigour, and dormant tree vigour

Page 180 of 181

28 Lockwood Avenue Belrose NSW

Prepared by Mark Bury Consulting

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This assessment was carried out from the ground, and covers what was reasonably able to be assessed and available to this assessor at the time of inspection. No aerial or subterranean inspections were carried out.

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Care has been taken to obtain information from reliable sources. All data has been verified were possible, however, Mark Bury Consulting can neither guarantee nor be responsible for the accuracy of information provided by others.

Information contained in this report covers only the trees that were examined and reflects the condition of the trees at the time of inspection, furthermore the inspection was limited to a visual examination of the subject trees without dissection, excavation, probing or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the subject tree may not arise in the future. This report cannot be used in a court of law until it is revised and referenced.

Page 181 of 181

28 Lockwood Avenue Belrose NSW

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