Annexure 4	Revised	Arboris	t Report	including	upda	ated
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	objecting	to remov	al of Tree	3.		

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Tree report

144 -148 Killeaton St and 1-3 College Cres St Ives NSW

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Introduction

This Tree Report was prepared at the request of RJA Projects on behalf of their client Estia Health Pty Ltd. to assist the development of 144-148 Killeaton St and 1-3 College Cres. St Ives NSW.

The report is prepared in accordance with Section 2 Planning and the Tree Management Process Cl. 2.3.2 Preliminary Tree Assessment of AS 4970-2009 Protection of trees on development sites

The report addresses existing trees noted on the attached marked up the Site Survey prepared by Lockley Registered Surveyors, Ref.42483DT Sheets 1 & 2 over 144-148 Killeaton Street and 1-3 College Cres. St Ives NSW now known as Tree Location Plan TP 01 and TP 02

Information contained in this Tree Report covers existing trees growing on the subject site and the adjacent street tree growing within the Killeaton Street, Yarrabung Road and College Crescent nature strips.

Plans referred to in the preparation of this tree report include:

- Site Survey Ref.42483DT Sheets 1 & 2 over 144-148 Killeaton St and 1-3 College Cres. St Ives
- Stormwater drainage plan SKCO1 July 2016 prepared by Taylor Thompson & Whitting Engineers
- Site sections A303 DA-02 prepared by Morrison Design Architects
- Site sections through TPZ trees 3,10,67 and 70 Prepared by Morrison Design Architects
- Landscape plans LA01-05 inclusive prepared by Taylor Brammer Landscape Architects.

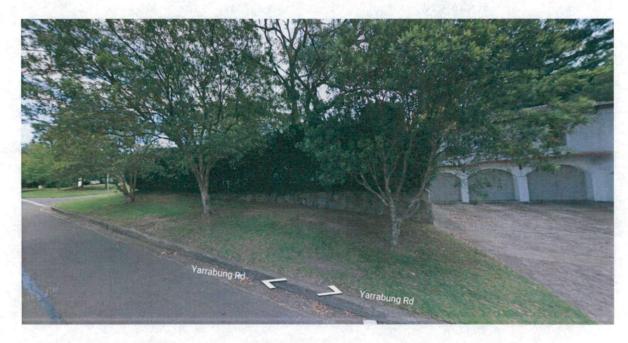
This report is prepared in accordance with Ku ring gai Council's Local Centres DCP, Volume A - Tree and Vegetation - Part 13 Tree and Vegetation Preservation Stuart Pittendrigh and his field assistant conducted the site assessment on 9 November 2013.



The Site 144-148 Killeaton St and 1-3 College Cres. St Ives NSW.



Part view of the development sites looking towards west along Killeaton Street.



Part view of the development sites looking towards south along Yarrabung Road



Part view of the development sites looking towards west along College Crescent.

The subject development sites comprising 6 residential dwellings bordered by Killeaton Street to the north, Yarrabung Road to the east and College Crescent to the south.

The site supports two old growth Eucalyptus saligna *Sydney Blue gum*, two Angophora costata *Smooth barked apple* and one Eucalyptus paniculata *Grey Ironbark*. The species is a major component of the Blue Gum High Forest a critically endangered ecological community under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

Existing natural vegetation throughout the locality comprises remnant stands of old growth Blue Gum High Forest trees including Sydney Blue Gum (*Euc saligna*) and Blackbutt (*Euc pilularis*). The locality and the site also support a diversified range of introduced cultural plantings comprising ornamental trees, conifers, deciduous trees and tall evergreen hedges and screen plantings.

Aims

The aims of this report are to:

- Address Tree and Vegetation Part 13 Tree and Vegetation Preservation
- Identify the subject trees shown on survey plans
- Appraise and assess the trees' condition, health, structure physical dimensions and form at the time of inspection
- Determine the Safe Useful Life Expectancy (SULE) of the tree (s)
- The landscape amenity provided by each individual tree
- Identify trees to be retained and
- Identify trees to be removed due to failing health, condition and perceived adverse impacts from the proposed civil works.

Methodology

The comments and recommendations in this report are based on observations and findings from the site inspection.

The trees were assessed from ground observation using standard methods of visual assessment criteria. No probing or coring, testing of woody tissue. No non invasive root investigations were carried out

Tree health was determined by: Canopy density, extension growth, foliage size applicable to the species, and colour. Presence of pest and disease Termite activity The amount of deadwood and dieback throughout the crown Small branch and twig dieback and Presence of epicormics

Tree structure was assessed by Visual evidence of structural faults and potential points of failure Evidence of past poor pruning practices Physical and or storm damage

The heights of the trees were measured with a Nikon Forestry Pro hypsometer; the crown spread and trunk diameters were measured at breast height (DBH). The stem diameters above the root buttress (DRB) were determined using a diameter measuring tape in accordance with **AS 4970 –2009 Protection of trees on development sites.**

The nominated Tree Protection Zones and Structural Root Zones were determined by applying the methodology detailed in Section 3 of AS 4070-2009 Protection of trees on development sites. Refer to Appendix A - Terms used in tree report.

Tree Assessment.

Refer to Appendix B - Tree Survey Assessment Sheets

Impact on Trees and Recommendations Refer to attached table **Appendix C**

Summary and Recommendations

Trees to be removed / retained

- The site currently supports 78 trees plus many evergreen under storey shrub layers comprising introduced species
- 39 Trees on the site are recommended for removal to accommodate the proposed development
- 39 Trees on the site are nominated for preservation including street trees and trees nominated for transplanting elsewhere on site refer Landscape plan.

Trees to be retained and managed throughout the development shall be fenced off from the proposed development or in some situations depending on site access may require trunk protection as detailed in Section 4 -Tree Protection Measures of AS4970 - 2009 The Protection of Trees on Development Sites or in some situation the existing boundary fence shall be retained throughout proposed development so as to provide tree protection barrier.

- No excavation or filling of the natural ground level within the Tree Protection Zones of trees nominated for preservation shall occur unless authorised by an Arborist.
- Demolition works within the TPZ of trees to be preserved shall be carried out so as to avoid damage to the tree's roots. In sensitive areas manual excavation may be necessary Manual excavation shall be by hand under the direction of the project arborist.
- Where the project arborist identifies roots to be pruned within or at the outer edge of the TPZ, they should be pruned with a final cut to undamaged wood. Pruning cuts should be made with sharp tools such as secateurs, pruners, handsaws or chainsaws. Pruning wounds should not be treated with dressings or paints. It is totally unacceptable acceptable for roots within the TPZ to be 'pruned' with machinery such as backhoes or excavators.
- Where roots within the TPZ are exposed by excavation, temporary root protection shall be installed to prevent them drying out This may include jute mesh or hessian sheeting as multiple layers over exposed roots and excavated soil profile, extending to the full depth of the root zone. Root protection sheeting should be pegged in place and kept moist during the period that the root zone is exposed
- All areas enclosed by protective fencing shall have the entire ground surface mulched to a depth of 100 mm with composted Eucalyptus leaf and woodchip to help retain soil moisture and reduce erosion.
- Any site activity close to or beneath the drip line of Trees 10, 48 and 70 shall have elevated protection installed clear of the ground to avoid compaction and damage to roots. Protection may comprise timber planks or metal decking supported on scaffolding or the like.
- Shoring. The preferred arboricultural method of shoring as part of the bulk earth works adjacent to Trees 48, 68 and 70 is by sheeting piling. This method of excavation will cut the roots cleanly, retain the root ball intact, and allow excavation to occur up to a solid barrier.
- Hydraulic plans have provided by the applicant indicate that sub soil stormwater and sewer lines are to be installed within the TPZ of trees nominated for preservation. Trenching for stormwater / sewer installation within the TPZ and SRZ shall be avoided. Adopt directional drilling / approved under boring techniques as per Section 4 of AS4970 CL.4.4.5 to avoid adverse impacts on tree roots.
- The directional drilling bore should be at least 600 mm deep. The project arborist shall assess the likely impacts of boring and bore pits on retained trees. Bore pits within the TPZ shall be hand dug under the direction of an Arborist. No excavation shall occur within the Structural Root Zones of trees nominated for preservation.

- The stormwater dissipater proposed for installation within the TPZ of Tree 10 as currently designed will result in covering a portion of the tree's roots. The extent of surface covering is approximate 23m2 which equates to 6% of the TPZ. Given that this covering in placed on the existing natural grade with no excavation necessary I am comfortable with accepting this solution to disperse the runoff.
- The ground penetrating Radar Survey (root mapping) carried out by GBG Australia indicates that some roots will be adversely impacted by the proposed development. The information provided was by GBG is limited to small areas of open space due to site constraints, existing pavements and built form. The impacts on roots identified in the report are within acceptable encroachments as noted in Appendix C for Tress 10, 33, 67, 68 and 70
- The crowns of all significant trees nominated for preservation are clear of the proposed development.

Stuart Pittendrich

Consultant Arborist M. Arb. Aust. (#2003)

References

Fakes, J. (2004) Introduction to Arboriculture RYDE TAFE

Hewett, P. in National Arborists Association of Australia (1997) Assessing Hazardous Trees and their Safe Useful Life Expectancy, NAAA Workshop, June 1997

Jeremy Barrel SULE- Data collection & SULE 11 Presentation of Data in association with the National Arborists Association of Australia (2001) Management of Mature Trees Seminar & Workshops 2001

Richard W. Harris Arboriculture – Integrated Management of Landscape Trees

Standards Australia AS 4970 Protection of trees on development sites.

Appendix A

Terms used in Tree Report

Age Class

(Y)-Young refers to a well established but juvenile tree.
(SM)-Semi-mature refers to a tree at growth stages between immaturity and full size. A tree that has reached First Adult Form i.e. displays adult characteristics.
(M)-Mature refers to a full size tree with some capacity for further growth.
(OM)-Over-mature refers to a tree approaching decline or already declining.

Health refers to the trees vigour, growth rate, disease and/or insects.

Condition summarises observations about the health and structure of the tree on a scale of 1-5 (G) Good, (F) Fair, (A) Average, (P) Poor and (VP) Very Poor SRZ) Height expressed in metres refers to estimated overall height of tree

Spread expressed in meters refers to estimated spread of crown at the drip line.

Diameter at Breast Height (DBH) expressed in millimetres refers to the trunk diameter at 1.4 meters above ground level.

(DRB) Diameter above Root Buttress (DRB) expressed in millimetres refers to the trunk diameter measured immediately above root buttress.

Tree Protection Zone (TPZ) refers to a specific radial offset expressed in metres to provide a specified area above and below the ground and at a given distance from the trunk set aside for the protection of a tree's roots and crown to provide for the viability and stability of a tree to be retained where it is potentially subject to damage by development.

The TPZ shall be calculated as a radial measurement based on twelve times the Diameter at Breast Height (DBH). A TPZ shall not be less than 2m.radius nor greater than a 15m radius as measured from the centre of the stem at ground level.

If an encroachment is less than 10% of the area of the TPZ and is outside the Structural Root Zone (SRZ) detailed root investigation should not be required. However if the proposed encroachment is greater than 10% or inside the SRZ root investigation by non- destructive methods may be required.

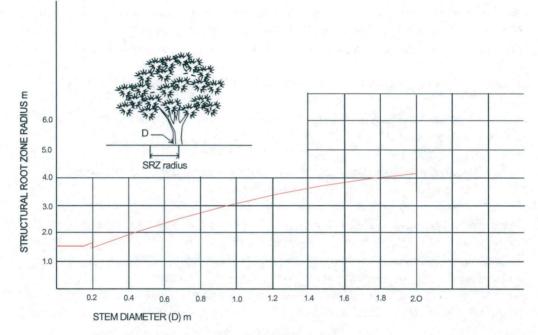
Non-destructive investigation methods may include pneumatic, hydraulic or penetrating radar.

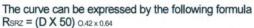
Any encroachment should be compensated for elsewhere and be contiguous with the TPZ.

Structural Root Zone (SRZ) The area around the base of a tree required for the tree's stability in the ground that is necessary to hold the tree upright. The SRZ is nominally circular with the trunk at its centre and is expressed by its radius in metres.

This zone considers a tree's structural stability only, **not** the root zone required for a tree's vigour and long term viability, which will usually be a much larger area.

The SRZ only needs to be calculated when major encroachment into a TPZ is likely to occur





NOTES

1 R SRZ is the structural root zone radius

2 D is the stem diameter measured immediately above to root buttress

3 The SRZ for trees less than 0.15 m diamater is 1.5m

- 4 The SRZ formula and graph do not apply to palms, other monocots, cycads & tree ferns
- 5 This does not apply to trees with an asymmetrical root plate

STRUCTURAL ROOT ZONE

S.U.L.E. Safe useful Life Expectancy Refer to attachment

Landscape Amenity Rating Scale

The landscape amenity value provided by trees indicates:

- How highly the tree is regarded as part of the local landscape
- How the tree provides and enhances the visual quality of the site

The importance of the tree's historical and cultural significance

• The provision of habitat and vegetation linkages within development sites, streetscapes, recreation areas or open space.

The protection, preservation and enhancement of the landscape amenity, particularly community and residential amenity are a core objective of site design, land use and planning.

The following rating scale is designed to assist in the site planning process for the proposed site works/development. Each tree in Schedule B is rated accordingly.

No 1 Rating

- Recognised landmark
- Contributes to high visual amenity
- Major contribution to the sites landscape amenity
- Excellent condition, health, structure and form
- Forms part of a listed Critically Endangered Ecological Community
- Significant introduced native species that has successfully adapted to the site conditions and environment.
- Significant introduced evergreen or deciduous species that has successfully adapted to the site conditions and environment
- Indigenous to the locality
- Significant remnant species indigenous to site and locality
- Historic importance
- Cultural importance
- Recorded on significant tree register
- Listed as a threatened species
- Identified habitat tree
- Contributes to the bio-diversity of native vegetation within the locality

No 2 Rating

Contributes to good visual amenity

- Makes substantial contribution to the sites landscape amenity
- Good/Fair condition, health, structure and form
- Forms part of a listed Critically Endangered Ecological Community
- Indigenous to the locality
- Remnant species indigenous to site and locality
- Introduced native species that has adapted to the site conditions and environment.
- Introduced evergreen or deciduous species that has adapted to the site conditions and environment
- Listed as a threatened species
- Possible habitat tree
- Contributes to the bio-diversity of native vegetation within the locality

No 3 Rating

• Minor contribution to the sites landscape amenity

- Fair/Average condition, health, structure and form
- Average/poor visual amenity
- Indigenous to the locality
- Introduced species
- Forms part of a listed Critically Endangered Ecological Community
- Growth and development suppressed
- Wounds, structural fault extensive storm damage
- Observance of Pests and disease impacting on health and condition.
- Hazardous trees

No 4 Rating

- Little or no contribution to the sites landscape amenity
- Poor/very poor visual amenity
- Growth and development over-mature / suppressed
- Major structural faults that cannot be mitigated
- Recognised invasive or weed species
- Dangerous tree
- Species unsuitable for site conditions and environment
- Species exempt LGA Tree Protection Order/Management Plan

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
1	Liquidambar orientalis	М	11	9	665	900	8	3.2	2	Street tree, deciduous tree introduced to the site, good condition, the	2a
	Oriental sweet gum					Area m2	201	32		species is not rare or endangered, structure and form modified by pruning, small branch and twig die back, no visible evidence of pests or disease, low hanging branches impact public access.	
2	Liquidambar orientalis	М	11	9	540	750	6.5	2.9	2	Street tree, deciduous tree introduced to the site, good condition, the	2a
	Oriental sweet gum					Area m2	133	26		species is not rare or endangered, structure and form modified by pruning, small branch and twig die back, no visible evidence of pests or disease, , low hanging branches impact public access.	
3	Lophostemon confertus	М	11	10	303	673	7.2	2.8	2	Evergreen native tree introduced to the site, good condition, the species is	3a
	Brushbox		1.1		517	Area m2	163	25		not rare or endangered, co-dominant stems, strong union, small branch and twig die back, thinning crown, no visible evidence of pests or	
										disease. The tree root system is compromised by the previous excavation to 950mm within the TPZ & SRZ for the construction of a retaining wall 1.5m from the trunk.	
4	Magnolia grandflora 'Exmouth'	М	4	4	180	250	2.2	1.8	3	Evergreen tree introduced to the site, fair condition, the species is not rare	3a
	Magnolia 'Exmouth'					Area m2	15	10		or endangered, structure and form modified by pruning, decline in vigour	
5	Franklinia axillaris	M	5	4	183	340	3.4	2.1	3	Small evergreen tree/tall shrub introduced to the site, fair condition, the	3a
	Fried - egg tree				215	Area m2	36	14		species is not rare or endangered, structure and form modified by	
						/ I Cu III 2				pruning, small branch and twig die back, no visible evidence of pests or disease	
6	Liquidambar styraciflua	M	15	10	507	820	6.1	3	2	Street tree, deciduous tree introduced to the site, good condition, the	2a
	Sweet gum					Area m2	117	28		species is not rare or endangered, co-dominant stems, strong union, minor small branch and twig die back, no visible evidence of pests or disease	
7	Pistacia chinensis	M	4.5	7	173	300	2.1	2	2	Street tree, deciduous tree introduced to the site, fair condition, the	2.
/		IVI	4.5	,	175			1.4.4	2	species is not rare or endangered, structure and form typical of the	2e
	Chinese Pistachio					Area m2	14	13		species, no visible evidence of pests or disease, poor structure and form.	
8	Liquidambar styraciflua	М	16	13	2x250	920	8.2	3.2	2	Street tree, deciduous tree introduced to the site, good condition, the	2e
	Sweet gum				2x300	Area m2	211	32		species is not rare or endangered, co-dominant stems, inclusion, minor small branch and twig die back, structure and form modified by pruning	
					403					low hanging branches impact public access	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
9	Liquidambar styraciflua	М	11	12	646	850	7.8	3.1	2	Street tree, deciduous tree introduced to the site, good condition, the species is not rare or endangered, structure and form typical of the	2a
	Sweet gum					Area m2	191	30		species, aerial cables above/through crown	
10	Agathis robusta	М	23	7	910	1050	10.9	3.4	2	Conifer species introduced to the site, good condition, the species is not	2e
	Queensland Kauri					Area m2	373	36		rare or endangered, structure and form typical of the species, no visible evidence of pests or disease, invaded by ivy vine	
11	Eucalyptus scoparia	M	17	13	840	1300	10.1	3.7	3	Evergreen native tree introduced to the site, fair condition, the species is	3a
	Willow gum					Area m2	320	43		not rare or endangered, structure and form modified by pruning, small branch and twig die back, thinning crown, epicormic growth, storm damage, invaded by ivy vine	
12	Cupressus species	М	16	5	3x150	810	6.8	3	3	Conifer species introduced to the site, average condition, the species is not	4b
	Cypress tree				4x250	Area m2	145	28		rare or endangered, co-dominant stems, strong union, small branch and twig die back, decline in vigour	
13	Arbutus unedo	M	8	7	290	540	5.6	2.6	2	Evergreen tree introduced to the site, good condition, the species is not	2a
	Strawberry tree				365	Area m2	99	21		rare or endangered, co-dominant stems, strong union, small branch and twig die back, modified by pruning	
14	Eucalyptus scoparia	OM	13	6	680	1100	8.2	3.4	4	Evergreen native tree introduced to the site, very Poor condition, the	4b
	Willow gum					Area m2	211	36		species is not rare or endangered, dead wood and die back, storm damage, tree stressed, decline in vigour	
15	Liquidambar styraciflua	M	9	7	370	506	4.4	2.5	2	Deciduous tree introduced to the site, fair condition, the species is not	Зa
	Sweet gum					Area m2	61	20		rare or endangered, suppressed, exempt Council's TPO	
16	Eucalyptus scoparia	M	15	7	820	1350	9.8	3.8	3	Evergreen native tree introduced to the site, poor condition, the species is	4c
	Willow gum					Area m2	302	45		not rare or endangered, small branch and twig die back, storm damage, tree stressed, decline in vigour, invaded by ivy vine, tree overturned towards NE, hazardous.	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
17	Cedrus deodara	М	17	11	700	1000	8.4	3.3	3	Conifer species introduced to the site, fair condition, the species is not	3a
	Himalayan cedar					Area m2	222	34		rare or endangered, structure and form typical of the species, dead wood and die back, heavily suppressed by adjoining trees.	
18	Cupressus species	М	12	4	192	464	3.8	2.4	3	Conifer species introduced to the site, average condition, the species is not	4b
	Cypress tree				248	Area m2	45	18		rare or endangered, dead wood and die back, tree stressed, decline in vigour	
19	Cupressus species	OM	12	2	257	452	3.1	2.4	4	Conifer species introduced to the site, poor condition, the species is not	4b
	Cypress tree					Area m2	30	18		rare or endangered, dead wood and die back, suppressed, tree stressed, decline in vigour	
20	Cupressus species	OM	12	3	317	405	3.8	2.3	4	Conifer species introduced to the site, poor condition, the species is not	4b
	Cypress tree					Area m2	45	17		rare or endangered, dead wood and die back, suppressed, tree stressed, decline in vigour	
21	Harpephyllum caffrum	M	11	9	645	1015	7.7	3.3	3	Evergreen tree introduced to the site, fair condition, the species is not rare	Зa
	Kaffir-plum					Area m2	186	34		or endangered, structure and form typical of the species, small branch and twig die back, storm damage, decline in vigour	
22	Harpephyllum caffrum	М	11	7	507	830	6.1	3.1	3	Evergreen tree introduced to the site, fair condition, the species is not rare	3a
	Kaffir-plum					Area m2	117	30		or endangered, structure and form typical of the species, decline in vigour, heavily invaded by ivy vine	
23	Pistacia chinensis	M	5	7	215	356	3.1	2.1	2	Street tree, deciduous tree introduced to the site, good condition, the	2a
	Chinese Pistachio				148	Area m2	30	14		species is not rare or endangered, structure and form modified by pruning, small branch and twig die back	
24	Harpephyllum caffrum	М	11	8	280	703	6.2	2.9	3	Evergreen tree introduced to the site, fair condition, the species is not rare	3a
	Kaffir-plum				290	Area m2	121	26		or endangered, co-dominant stems, strong union, small branch and twig die back, thinning crown, decline in vigour	
					322				die back, thinning crown, decline in vigour		

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
25	Arecastrum romanzoffianum	М	10	5	310	660	3.7	2.8	2	Palm species introduced to the site, good condition, the species is not rare or endangered, structure and form typical of the species	2a
	Queen palm					Area m2	43	25		or engangered, structure and form typical of the species	
26	Archontophoenix alexandrae	М	6	4	181	285	2.2	2	2	Palm species introduced to the site, good condition, the species is not rare or endangered, structure and form typical of the species	2a
	Alexander palm					Area m2	15	13		or engangered, structure and form typical of the species	
27	Araucaria heterophylla	SM	12	4	272	382	3.3	2.2	2	Conifer species introduced to the site, good condition, the species is not	2a
	Norfolk Island pine					Area m2	34	15		rare or endangered, structure and form typical of the species	
28	Angophora costata	SM	9	1.5	113	162	1.4	1.5	2	Evergreen tree indigenous to the locality, good condition, the species is	2a
	Smooth bark apple					Area m2	6	7		not rare or endangered, structure and form typical of the species	
20	Arecastrum romanzoffianum	M	15	5	281	620	3.4	2.7	2	Palm species introduced to the site, good condition, the species is not rare	2a
29		IVI	15	5	201				2	or endangered, structure and form typical of the species, exempt Council's	20
	Queen palm					Area m2	36	23		ТРО	
30	Arecastrum romanzoffianum	М	10	5	270	415	3.2	2.3	2	Palm species introduced to the site, good condition, the species is not rare or endangered, structure and form typical of the species, exempt Council's	2a
	Queen palm					Area m2	32	17		TPO	
31	Araucaria heterophylla	SM	11	4.5	252	329	3	2.1	2	Conifer species introduced to the site, good condition, the species is not	2a
	Norfolk Island pine					Area m2	28	14		rare or endangered, structure and form typical of the species	
32	Araucaria heterophylla	SM	9	4	179	252	2.1	1.9	3	Conifer species introduced to the site, good condition, the species is not	2a
	Norfolk Island pine					Area m2	14	11		rare or endangered, structure and form typical of the species	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
33	Eucalyptus paniculata	М	18	15	599	820	7.2	3	2	Evergreen tree indigenous to the locality, good condition, the species is	2a
	Grey iron bark					Area m2	163	28		not rare or endangered, structure and form typical of the species, small branch and twig die back, thinning crown, no visible evidence of pests or disease	
34	Melaleuca quinquenervia	SM	8	4	230	360	2.8	2.2	2	Evergreen native tree introduced to the site, good condition, the species is	2a
	Broad leaf paper-bark					Area m2	25	15		not rare or endangered, structure and form typical of the species, dead wood and die back, small branch and twig die back, no visible evidence of pests or disease	
35	Eucalyptus scoparia	М	14	16	663	1050	8	3.4	3	Evergreen native tree introduced to the site, poor condition, the species is	3c
	Willow gum					Area m2	201	36		not rare or endangered, most of the foliage derived from epicormics, tree stressed, decline in vigour, distinct lean towards SW	
36	Tristaniopsis laurina	М	11	9	2X172	715	5.2	2.9	2	Evergreen tree indigenous to the locality, good condition, the species is	2a
	Water gum				197	Area m2	85	26		not rare or endangered, co-dominant stems, inclusion, small branch and twig die back, structure and form modified by pruning	
					300						
37	Jacaranda mimosifolia	М	8	3	259	281	3.1	1.9	3	Deciduous tree introduced to the site, fair condition, the species is not rare or endangered, structure and form modified by pruning, poor form	3a
	Jacaranda tree					Area m2	30	11		rate of endangered, structure and form modified by proming, poor form	
38	Melaleuca quinquenervia	M	15	9	2x114	820	6.8	3	2	Evergreen native tree introduced to the site, good condition, the species is	2a
	Broad leaf paper-bark				542	Area m2	145	28		not rare or endangered, co-dominant stems, strong union, no visible evidence of pests or disease	
39	Corymbia gummifera	SM	11	2.5	158	239	1.9	1.8	2	Small evergreen tree/tall shrub introduced to the site, tree not tagged,	2a
	Red blood wood					Area m2	11	10		evergreen tree indigenous to the locality, fair condition, the species is not rare or endangered, structure and form typical of the species, small branch and twig die back	
40	Eucalyptus saligna	SM	8	3	95	150	1.1	1.5	2	Street tree, tree not tagged, evergreen tree indigenous to the locality, good	2a
	Sydney Blue gum					Area m2	4	7		condition, the species is not rare or endangered, co-dominant stems, strong union, no visible evidence of pests or disease	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
41	Eucalyptus saligna	M	12	4	210	307	2.5	2	2	Street tree, tree not tagged, evergreen tree indigenous to the locality, good condition, the species is not rare or endangered, structure and form	2e
	Sydney Blue gum					Area m2	20	13		typical of the species, trunk wound, small branch and twig die back	
42	Tecoma stans	М	10	6	2x110	360	3.7	2.2	3	Evergreen tree introduced to the site, fair condition, the species is not rare	2c
	Yellow bells				205	Area m2	43	15		or endangered, co-dominant stems, strong union, structure and form modified by pruning, invasive species	
					170						
43	Tristaniopsis laurina	М	6	7	177	303	3.2	2	2	Street tree, evergreen native tree introduced to the site, good condition,	2a
	Water gum				200	Area m2	32	13		the species is not rare or endangered, co-dominant stems, strong union, small branch and twig die back, no visible evidence of pests or disease	
44	Tristaniopsis laurina	M	9	10	246	514	4.4	2.5	2	Street tree, evergreen native tree introduced to the site, good condition,	2a
	Water gum				268	Area m2	61	20		the species is not rare or endangered, co-dominant stems, strong union, small branch and twig die back, no visible evidence of pests or disease	
45	Tristaniopsis laurina	M	7	8	3x100	393	3.7	2.2	2	Street tree, evergreen native tree introduced to the site, good condition,	2a
	Water gum				3x150	Area m2	43	15		the species is not rare or endangered, co-dominant stems, inclusion, small branch and twig die back, no visible evidence of pests or disease	
46	Harpephyllum caffrum	М	9	11	562	650	6.7	2.8	3	Evergreen tree introduced to the site, fair condition, the species is not rare	3a
	Kaffir-plum					Area m2	141	25		or endangered, poor structure and form, small branch and twig die back	
47	Eucalyptus robusta	М	19	11	870	1020	10.4	3.3	2	Evergreen native tree introduced to the site, fair condition, the species is	3a
	Swamp mahogany					Area m2	340	34		not rare or endangered, structure and form typical of the species, co- dominant stems at 1.5 m above ground level, strong union, small branch and twig die back, extensive exposed surface roots	
48	Eucalyptus scoparia	М	17	15	900	1700	10.8	4.1	3	Evergreen native tree introduced to the site, fair condition, the species is	3e
	Willow gum					Area m2	366	53		not rare or endangered, structure and form typical of the species, small branch and twig die back, thinning crown, storm damage, tree stressed, slight decline in vigour	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
49	Ulmus procera 'Louis van Houtte'	М	4	10	3x150	580	4.6	2.6	2	Street tree, deciduous tree introduced to the site, fair condition, the	2a
	Golden elm				2x200	Area m2	66	21		species is not rare or endangered, co-dominant stems, strong union, structure and form modified by pruning	
50	Ulmus procera 'Louis van Houtte'	M	4	6	3x110	323	2.8	2.1	2	Street tree, deciduous tree introduced to the site, fair condition, the	2a
	Golden elm				130	Area m2	25	14		species is not rare or endangered, co-dominant stems, strong union, structure and form modified by pruning	
51	Cupressus sempervirens 'Swanes G'	M	8	1.5	200	350	2.4	2.1	2	Conifer species introduced to the site, row planting comprising 4 trees,	2a
	Swane's golden cypress					Area m2	18	14		good condition, the species is not rare or endangered, structure and form typical of the species	
52	Arecastrum romanzoffianum	M	9	5	212	405	2.5	2.3	2	Palm species introduced to the site, good condition, the species is not rare	2c
	Queen palm					Area m2	20	17		or endangered, structure and form typical of the species, exempt Council's TPO	
53	Camellia japonica	M	4	3	Multi stem	190	3	1.6	2	Small evergreen tree/tall shrub introduced to the site, good condition, the	2a
	Camellia					Area m2	28	8		species is not rare or endangered, structure and form typical of the species	
54	Camellia reticulata	М	4	3	Multi stem	180	3	1.6	2	Small evergreen tree/tall shrub introduced to the site, good condition, the	2a
	Reticulata					Area m2	28	8		species is not rare or endangered, structure and form typical of the species	
55	Camellia reticulata	M	4.5	3	Multi stem	185	3	1.6	2	Small evergreen tree/tall shrub introduced to the site, good condition, the	2a
	Reticulata		-			Area m2	28	8		species is not rare or endangered, structure and form typical of the species	
56	Camellia japonica	М	4.5	3	Multi stem	190	3	1.6	2	Small evergreen tree/tall shrub introduced to the site, good condition, the	2a
	Camellia					Area m2	28	8		species is not rare or endangered, structure and form typical of the species	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
57	Celtis occidentalis	М	9	10	360	480	4.3	2.4	3	Deciduous tree introduced to the site, good condition, the species is not	2c
	Hackberry					Area m2	58	18		rare or endangered, structure and form typical of the species, small branch and twig die back, invasive species	
58	Callistemon viminalis	OM	6	6	3x100	300	2.1	2	3	Evergreen native tree introduced to the site, poor condition, the species is	3e
	Weeping bottlebrush					Area m2	14	13		not rare or endangered, co-dominant stems, strong union, small branch and twig die back, thinning crown, decline in vigour, invaded by ivy vine	
59	Tibouchina lepidota	M	6	8	9x100	710	3.6	2.9	3	Evergreen tree introduced to the site, average condition, the species is not	3a
	Lasiandra					Area m2	41	26		rare or endangered, co-dominant stems, strong union, suppressed, thinning crown	
60	Arecastrum romanzoffianum	М	8	5	363	550	4.4	2.6	2	Palm species introduced to the site, good condition, the species is not rare	2c
	Queen palm					Area m2	61	21		or endangered, structure and form typical of the species, exempt Council's TPO	
61	Celtis occidentalis	M	17	15	642	850	7.7	3.1	2	Deciduous tree introduced to the site, average condition, the species is not	3e
	Hackberry					Area m2	186	30		rare or endangered, invaded by ivy vine throughout entire crown, invasive species	
62	Cupressus species	M	12	2	190	420	2.3	2.3	3	Conifer species introduced to the site, average condition, the species is not	3e
	Cypress tree					Area m2	17	17		rare or endangered, small branch and twig die back, suppressed	
63	Cupressus species	M	15	3	320	435	3.8	2.3	3	Conifer species introduced to the site, average condition, the species is not	3e
	Cypress tree		1			Area m2	45	17		rare or endangered, small branch and twig die back, suppressed	
64	Cupressus species	М	15	3	306	392	3.7	2.2	3	Conifer species introduced to the site, average condition, the species is not	3e
	Cypress tree					Area m2	43	15		rare or endangered, small branch and twig die back, suppressed	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
65	Cupressus species	М	15	3	230	332	2.8	2.1	3	Conifer species introduced to the site, average condition, the species is not	3e
00	Cypress tree		13	5	200	Area m2	25	14		rare or endangered, small branch and twig die back, suppressed	50
66	Eucalyptus scoparia	М	16	10	624	820	7.5	3	2	Evergreen native tree introduced to the site, fair condition, the species is	3a
	Willow gum					Area m2	177	28		not rare or endangered, dead wood and die back, small branch and twig die back, distinct lean towards NE	
67	Eucalyptus saligna	M	20	20	850	1400	10.2	3.8	2	Evergreen tree indigenous to the locality, fair condition, the species is not	2e
	Sydney Blue gum					Area m2	327	45		rare or endangered, structure and form typical of the species, small branch and twig die back, modified by past pruning. The existing masony covers 84m2 or 26% of the TPZ.	
68	Eucalyptus saligna	М	33	22	1230	1450	14.8	3.9	2	Evergreen tree indigenous to the locality, good condition, the species is not rare or endangered, structure and form modified by pruning, small	2e
	Sydney Blue gum					Area m2	688	48		branch and twig die back, bracket fungi observed main stem in trunk wound at 5 metres above ground level. May require further investigation with Resistograph by others.	
69	Liquidambar orientalis	M	99	0	452	780	5.4	3	2	Street tree, deciduous tree introduced to the site, good condition, the	2a
	Oriental sweet gum					Area m2	92	28		species is not rare or endangered, structure and form typical of the species	
70	Angophora costata	М	18	17	722	1200	8.7	3.6	2	Evergreen tree indigenous to the locality, good condition, the species is	2a
	Smooth bark apple					Area m2	238	41		not rare or endangered, structure and form typical of the species, small branch and twig die back, no visible evidence of pests or disease	
71	Acer negundo	М	9	8	362	645	6.4	2.8	2	Deciduous tree introduced to the site, good condition, the species is not	2c
	Box elder				394	Area m2	129	25		rare or endangered, co-dominant stems, inclusion, exempt Council's TPO	
72	Howea forsteriana	М	7	.4.5	142	330	1.7	2.1	2	Palm species introduced to the site, good condition, the species is not rare	2a
	Kentia palm					Area m2	9	14		or endangered, structure and form typical of the species, transplant to new location on site	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
73	Howea forsteriana	М	6	4.5	144	365	1.7	2.2	2	Palm species introduced to the site, good condition, the species is not rare	2a
	Kentia palm					Area m2	9	15		or endangered, structure and form typical of the species, transplant to new location on site	
74	Arecastrum romanzoffianum	М	8	3	230	590	2.8	2.7	2	Palm species introduced to the site, good condition, the species is not rare	2c
	Queen palm					Area m2	25	23		or endangered, structure and form typical of the species, exempt Council's TPO	
75	Arecastrum romanzoffianum	M	7	3	187	490	2.2	2.5	2	Palm species introduced to the site, good condition, the species is not rare or endangered, structure and form typical of the species, exempt Council's	2c
	Queen palm					Area m2	15	20		TPO	
76	Arecastrum romanzoffianum	М	9	4	228	565	2.7	2.6	3	Palm species introduced to the site, good condition, the species is not rare	2c
	Queen palm					Area m2	23	21		or endangered, structure and form typical of the species, exempt Council's TPO	
77	Arecastrum romanzoffianum	M	7	4	188	258	2.3	1.9	2	Palm species introduced to the site, good condition, the species is not rare	2c
	Queen palm					Area m2	17	11		or endangered, structure and form typical of the species, exempt Council's TPO	
78	Syzygium australe	М	12	5	300	450	3.6	2.4	2	Evergreen native tree introduced to the site, fair condition, the species is	2a
	Lillypilly spp.					Area m2	41	18		not rare or endangered, structure and form modified by pruning, no visible evidence of pests or disease	

Tree No.	Botannical Name Common Name	Condition	TPZ m. rad.	SRZ m. rad.	Comments / Recommendations
1	Liquidambar orientalis	Good	8	3.2	Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites
	Oriental sweet gum	Area m2	201	32	out in A34970-2009 The Protection of Trees on Development sites
2	Liquidambar orientalis	Good	6.5	2.9	Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites
	Oriental sweet gum	Area m2	133	26	but in AS4570-2005 the Protection of thees on Development Sites
3	Lophostemon confertus	Good	7.2	2.8	Removal recommended supported by Council in consultation with adjoining neighbour.
	Brushbox	Area m2	163	25	
4	Magnolia grandflora 'Exmouth'	Fair	2.2	1.8	Removal recommended. Tree will be adversly impacted by proposed development, short safe useful life expectancy
	Magnolia 'Exmouth'	Area m2	15	10	
5	Franklinia axillaris	Fair	3.4	2.1	Removal recommended. Tree will be adversly impacted by proposed development, short safe useful life expectancy
	Fried - egg tree	Area m2	36	14	
6	Liquidambar styraciflua	Good	6.1	3	Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites
	Sweet gum	Area m2	117	28	out in A34970-2009 the Protection of thees on Development Sites
7	Pistacia chinensis	Fair	2.1	2	Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites
	Chinese Pistachio	Area m2	14	13	out in A34970-2009 The Protection of Trees on Development Sites
8	Liquidambar styraciflua	Good	8.2	3.2	Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites
	Sweet gum	Area m2	211	32	out in A34970-2009 the Protection of thees on Development Sites
9	Liquidambar styraciflua	Good	7.8	3.1	Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites
	Sweet gum	Area m2	191	30	out in AS4370-2003 The Flotection of frees on Development Sites
10	Agathis robusta	Good	10.9	3.4	Retain tree, encroachment into TPZ considered minor 32m2 which equates to 8.6%, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites,
	Queensland Kauri	Area m2	373	36	adopt tree sensitive construction measures such as pier & beam, suspended slabs, cantilevered building sections, screw piles to minimise the impact from the construction of the aboveground portion of the adjacent terrace. Adopt directional drilling
					techniques when installing stormwater within TPZ. The directional drilling bore shall be at least 600mm deep.

Tree No.	Botannical Name Common Name	Condition	TPZ m. rad.	SRZ m. rad.	Comments / Recommendations		
11	Eucalyptus scoparia	Fair	10.1	3.7	Removal recommended, tree displays poor health and condition, declining vigour, short safe useful life expectancy.		
	Willow gum	Area m2	320	43			
12	Cupressus species	Average	6.8	3	Removal recommended tree has short safe useful life expectancy		
	Cypress tree	Area m2	145	28			
13	Arbutus unedo	Good	5.6	2.6	Removal recommended. Tree will be adversly impacted by proposed development		
	Strawberry tree	Area m2	99	21			
14	Eucalyptus scoparia	Very Poor	8.2	3.4	Removal recommended, tree displays poor health and condition, declining vigour, short safe useful life expectancy.		
	Willow gum	Area m2	211	36			
15	Liquidambar styraciflua	Fair	4.4	2.5	Removal recommended.Tree will be adversly impacted by proposed development		
	Sweet gum	Area m2	61	20			
16	Eucalyptus scoparia	Poor	9.8	3.8	Removal recommended tree has short safe useful life expectancy		
	Willow gum	Area m2	302	45			
17	Cedrus deodara	Fair	8.4	3.3	Removal recommended. Tree will be adversly impacted by proposed development, short safe useful life expectancy		
	Himalayan cedar	Area m2	222	34			
18	Cupressus species	Average	3.8	2.4	Removal recommended tree has short safe useful life expectancy		
	Cypress tree	Area m2	45	18			
19	Cupressus species	Poor	3.1	2.4	Removal recommended tree has short safe useful life expectancy		
	Cypress tree	Area m2	30	18			
20	Cupressus species	Poor	3.8	2.3	Removal recommended tree has short safe useful life expectancy		
	Cypress tree	Area m2	45	17			
21	Harpephyllum caffrum	Fair	7.7	3.3	Removal recommended. Tree will be adversly impacted by proposed development, short safe useful life expectancy		
	Kaffir-plum	Area m2	186	34			

Tree No.	Botannical Name Common Name	Condition	TPZ m. rad.	SRZ m. rad.	Comments / Recommendations
22	Harpephyllum caffrum	Fair	6.1	3.1	Removal recommended. Tree will be adversly impacted by proposed development, short safe useful life expectancy
	Kaffir-plum	Area m2	117	30	
23	Pistacia chinensis	Good	3.1	2.1	Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set
	Chinese Pistachio	Area m2	30	14	out in AS4970-2009 The Protection of Trees on Development Sites
24	Harpephyllum caffrum	Fair	6.2	2.9	Removal recommended. Tree will be adversly impacted by proposed development, tree has short safe usefull life expectancy
	Kaffir-plum	Area m2	121	26	
25	Arecastrum romanzoffianum	Good	3.7	2.8	Retain tree. Transplant to new location on site, refer to landscape plan.
	Queen palm	Area m2	43	25	
26	Archontophoenix alexandrae	Good	2.2	2	Retain tree.No perceived impact from proposed development, protect and manage tree during development in accordance with
	Alexander palm	Area m2	15	13	Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites
27	Araucaria heterophylla	Good	3.3	2.2	Retain tree. No perceived impact from proposed development, protect and manage tree during development in accordance with
	Norfolk Island pine	Area m2	34	15	Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites
28	Angophora costata	Good	1.4	1.5	Retain tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in
	Smooth bark apple	Area m2	6	7	AS4970-2009 The Protection of Trees on Development Sites
29	Arecastrum romanzoffianum	Good	3.4	2.7	Retain tree, transplant to new location on site, refer to landscape plan.
	Queen palm	Area m2	36	23	
30	Arecastrum romanzoffianum	Good	3.2	2.3	Retain tree. No perceived impact from proposed development, protect and manage tree during development in accordance with
	Queen palm	Area m2	32	17	Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites
31	Araucaria heterophylla	Good	3	2.1	Retain tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in
	Norfolk Island pine	Area m2	28	14	AS4970-2009 The Protection of Trees on Development Sites
32	Araucaria heterophylla	Good	2.1	1.9	Retain tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in
	Norfolk Island pine	Area m2	14	11	AS4970-2009 The Protection of Trees on Development Sites

Tree No.	Botannical Name Common Name	Condition	TPZ m. rad.	SRZ m. rad.	Comments / Recommendations	
33	Eucalyptus paniculata	Good	7.2	3	Retain tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in	
	Grey iron bark	Area m2	163	28	within TPZ. The directional drilling bore shall be at least 600mm deep.	
34	Melaleuca quinquenervia	Good	2.8	 AS4970-2009 The Protection of Trees on Development Sites., adopt directional drilling techniques when installing stormwater within TPZ. The directional drilling bore shall be at least 600mm deep. Retain tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites Removal recommended tree has short safe useful life expectancy Retain tree, encroachment into TPZ considered minor 5% which equates to 4.2m2, protect and manage tree during development in accordance with Section of Trees on Development Sites Removal recommended due to poor structure and form Retain tree, encroachment into TPZ considered major 15.4m2 which equates to 10.6%, protect and manage tree during development Sites Retain tree, encroachment into TPZ considered major 15.4m2 which equates to 10.6%, protect and manage tree during development Sites Retain tree, encroachment into TPZ considered major 15.4m2 which equates to 10.6%, protect and manage tree during development Sites Retain tree, encroachment into TPZ considered major 15.4m2 which equates to 10.6%, protect and manage tree during development Sites Retain tree, Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures out in AS4970-2009 The Protection Measures out in AS4970-2009 The Protection of Trees on Development Sites Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures out in AS4970-2009 The Protection of Trees on Development Sites Retain tree. Street tree, protect and manage tree during development in ac		
	Broad leaf paper-bark	Area m2	25	15	AS4970-2009 The Protection of Trees on Development Sites	
35	Eucalyptus scoparia	Poor	8	3.4	Removal recommended tree has short safe useful life expectancy	
	Willow gum	Area m2	201	36		
36	Tristaniopsis laurina	Good	5.2	2.9		
	Water gum	Area m2	85	26	in accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites	
37	Jacaranda mimosifolia	Fair	3.1	1.9	Removal recommended due to poor structure and form	
	Jacaranda tree	Area m2	30	11		
38	Melaleuca quinquenervia	Good	6.8	3		
	Broad leaf paper-bark	Area m2	145	28		
39	Corymbia gummifera	Fair	1.9	1.8	tain tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in 4970-2009 The Protection of Trees on Development Sites moval recommended tree has short safe useful life expectancy tain tree, encroachment into TPZ considered minor 5% which equates to 4.2m2, protect and manage tree during development accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites moval recommended due to poor structure and form tain tree, encroachment into TPZ considered major 15.4m2 which equates to 10.6%, protect and manage tree during velopment in accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on velopment Sites tain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures t in AS4970-2009 The Protection of Trees on Development Sites tain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures t in AS4970-2009 The Protection of Trees on Development Sites tain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures t in AS4970-2009 The Protection of Trees on Development Sites	
	Red blood wood	Area m2	11	10	out in AS4970-2009 The Protection of Trees on Development Sites	
40	Eucalyptus saligna	Good	1.1	1.5	Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set	
	Sydney Blue gum	Area m2	4	7	out in AS4970-2009 The Protection of Trees on Development Sites	
41	Eucalyptus saligna	Good	2.5	2	Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set	
	Sydney Blue gum	Area m2	20	13	out in AS4970-2009 The Protection of Trees on Development Sites	
42	Tecoma stans	Fair	3.7	2.2	Removal recommended, species invasive of bushlands, gardens and open space areas	
	Yellow bells	Area m2	43	15		
43	Tristaniopsis laurina	Good	3.2	2	Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set	
	Water gum	Area m2	32	13	out in AS4970-2009 The Protection of Trees on Development Sites	

Tree No.	Botannical Name Common Name	Condition	TPZ m. rad.	SRZ m. rad.	Comments / Recommendations
44	Tristaniopsis laurina	Good	4.4	2.5	Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites
	Water gum	Area m2	61	20	
45	Tristaniopsis laurina	Good	3.7	2.2	Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set
	Water gum	Area m2	43	15	out in AS4970-2009 The Protection of Trees on Development Sites
46	Harpephyllum caffrum	Fair	6.7	2.8	Removal recommended. Tree will be adversly impacted by proposed development
	Kaffir-plum	Area m2	141	25	
47	Eucalyptus robusta	Fair	10.4	3.3	Removal recommended, shallow surface roots.
	Swamp mahogany	Area m2	340	34	
48	Eucalyptus scoparia	Fair	10.8	4.1	Retain tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set out in
	Willow gum	Area m2	366	53	AS4970-2009 The Protection of Trees on Development Sites, prune dead wood and small branch die back, repair storm damage.
49	Ulmus procera 'Louis van Houtte'	Fair	4.6	2.6	Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures set
	Golden elm	Area m2	66	21	out in AS4970-2009 The Protection of Trees on Development Sites
50	Ulmus procera 'Louis van Houtte'	Fair	2.8	 4.1 Retain tree, protect and manage tree during development in accordance with Section 4 Tree protection Measures see AS4970-2009 The Protection of Trees on Development Sites, prune dead wood and small branch die back, repair stores 2.6 Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection I out in AS4970-2009 The Protection of Trees on Development Sites 2.1 Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection I out in AS4970-2009 The Protection of Trees on Development Sites 2.1 Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection I out in AS4970-2009 The Protection of Trees on Development Sites 2.1 Retain tree. Street tree, protect and manage tree during development in accordance with Section 4 Tree protection I out in AS4970-2009 The Protection of Trees on Development Sites 2.1 Retain tree. Street tree, protect and manage tree during development Sites 2.1 Removal recommended 	
	Golden elm	Area m2	25	14	out in AS4970-2009 The Protection of Trees on Development Sites
51	Cupressus sempervirens 'Swanes G'	Good	2.4	2.1	Removal recommended
	Swane's golden cypress	Area m2	18	14	
52	Arecastrum romanzoffianum	Good	2.5	2.3	Removal recommended. Species exempt Councils TPO
	Queen palm	Area m2	20	17	
53	Camellia japonica	Good	3	1.6	Retain tree, transplant to new location on site, refer to landscape plan.
	Camellia	Area m2	28	8	[철말 : : : : : : : : : : : : : : : : : : :
54	Camellia reticulata	Good	3	1.6	Retain tree, transplant to new location on site, refer to landscape plan.
	Reticulata	Area m2	28	8	

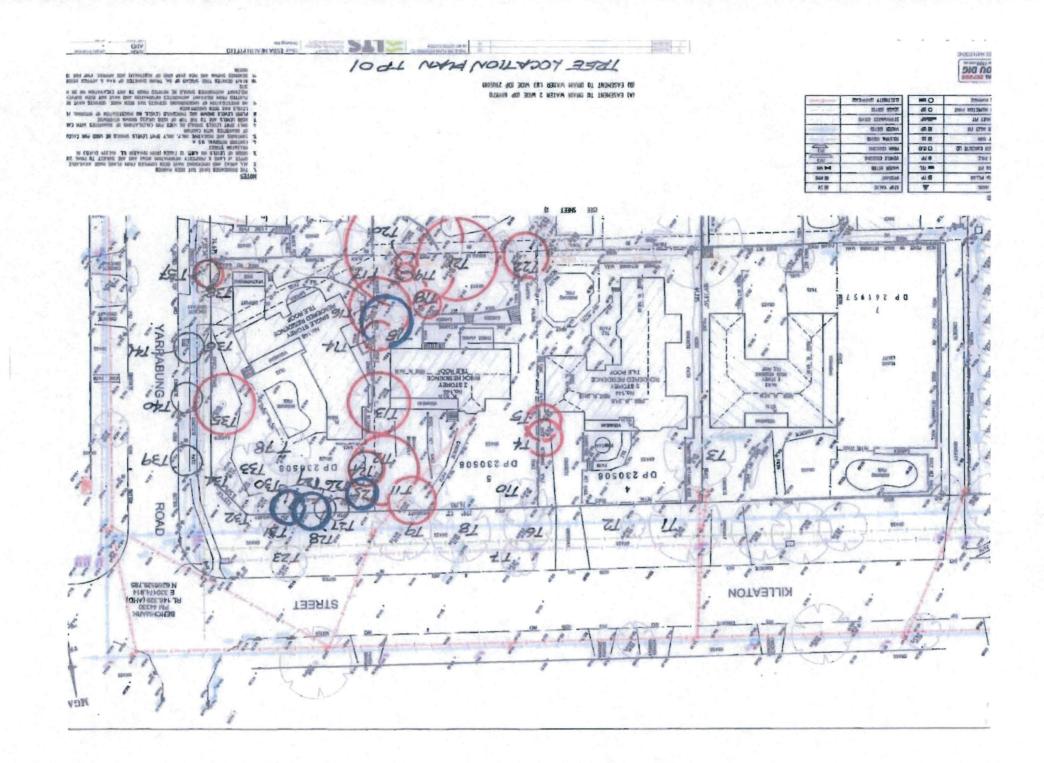
Tree No.	Botannical Name Common Name	Condition	TPZ m. rad.	SRZ m. rad.	Comments / Recommendations
55	Camellia reticulata	Good	3	1.6	Retain tree, transplant to new location on site, refer to landscape plan.
	Reticulata	Area m2	28	8	
56	Camellia japonica	Good	3	1.6	Retain tree, transplant to new location on site, refer to landscape plan.
	Camellia	Area m2	28	8	
57	Celtis occidentalis	Good	4.3	2.4	Removal recommended, species invasive of bushlands, gardens and open space areas
	Hackberry	Area m2	58	18	
58	Callistemon viminalis	Poor	2.1	2	Removal recommended tree has short safe useful life expectancy
	Weeping bottlebrush	Area m2	14	13	
59	Tibouchina lepidota	Average	3.6	2.9	Removal recommended tree has short safe useful life expectancy
	Lasiandra	Area m2	41	26	
60	Arecastrum romanzoffianum	Good	4.4	2.6	Removal recommended. Species exempt Councils TPO
	Queen palm	Area m2	61	21	
61	Celtis occidentalis	Average	7.7	3.1	Removal recommended, species invasive of bushlands, gardens and open space areas
	Hackberry	Area m2	186	30	
62	Cupressus species	Average	2.3	2.3	Removal recommended tree has short safe useful life expectancy
	Cypress tree	Area m2	17	17	
63	Cupressus species	Average	3.8	2.3	Removal recommended tree has short safe useful life expectancy
	Cypress tree	Area m2	45	17	
64	Cupressus species	Average	3.7	2.2	Removal recommended tree has short safe useful life expectancy
	Cypress tree	Area m2	43	15	
65	Cupressus species	Average	2.8	2.1	Removal recommended tree has short safe useful life expectancy
	Cypress tree	Area m2	25	14	

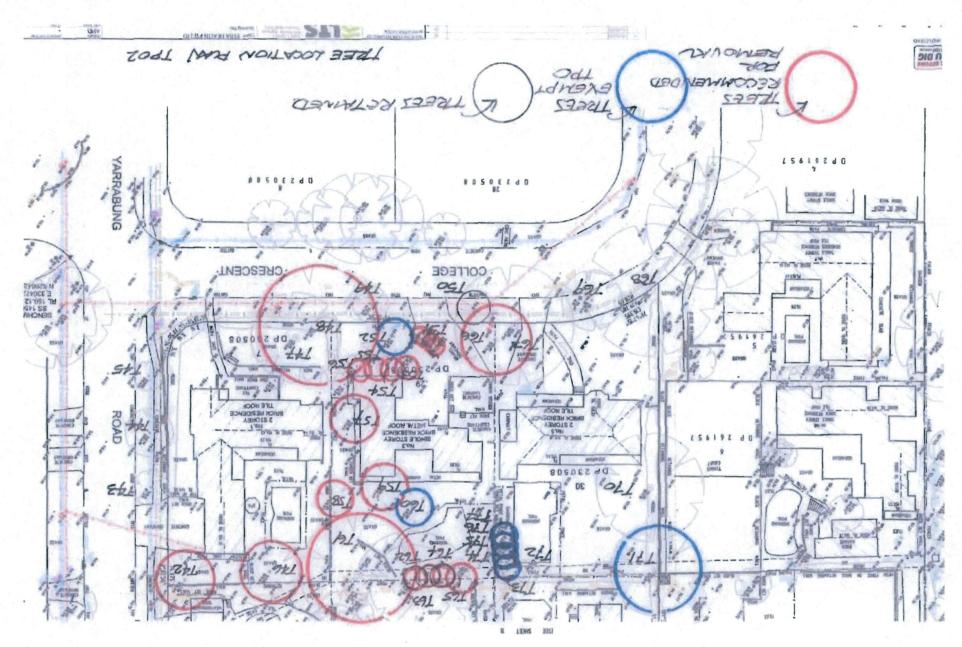
Tree No.	Botannical Name Common Name	Condition	TPZ m. rad.	SRZ m. rad	. Comments / Recommendations	
66	Eucalyptus scoparia	Fair	7.5	3	Removal recommended due to extensive lean, tree has short safe useful life expectancy	
	Willow gum	Area m2	177	28		
67	Eucalyptus saligna	Fair	10.2	3.8	Retain tree, encroachment into TPZ considered major 16.4% which equates to 53.6m2. The impact is confined to one side of the	
	Sydney Blue gum	Area m2	327 45		tree and given the trees current condition and additional exposure to soil air and moisture resulting from the removal o the current driveway pavement I am of the view that the tree will not be adversly impacted by the proposed encroachment.Protect	
					and manage tree during development in accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites, adopt directional drilling techniques when installing stormwater within TPZ. The directional drilling bore shall be at least 600mm deep.	
68	Eucalyptus saligna	Good	14.8	3.9	Retain tree, encroachment into TPZ considered minor 3% which equates to 22m2, protect and manage tree during development in	
	Sydney Blue gum	Area m2	688	48	accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites, adopt directional drilling techniques when installing stormwater within TPZ. The directional drilling bore shall be at least 600mm deep.	
69	Liquidambar orientalis	Good	5.4	3	Retain tree. Street tree, encroachment into TPZ considered minor 5% which equates to 36m2, protect and manage tree during	
	Oriental sweet gum	Area m2	92	28	development in accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites	
70	Angophora costata	Good	8.7	3.6	Retain tree, encroachment into TPZ considered minor 7.5% which equates to 17.9m2, protect and manage tree during	
	Smooth bark apple	Area m2	238	41	development in accordance with Section 4 Tree protection Measures set out in AS4970-2009 The Protection of Trees on Development Sites, adopt directional drilling techniques when installing stormwater within TPZ. The directional drilling bore shall be at least 600mm deep.	

6.4	2.8	Removal	recommended.	Species	exempt	Councils	TPO

71	Acer negundo	egundo Good 6.4		2.8	Removal recommended. Species exempt Councils TPO	
	Box elder	Area m2	129	25		
72	72 Howea forsteriana	Good	1.7	2.1	Retain tree, transplant to new location on site, refer to landscape plan.	
	Kentia palm	Area m2	9	14		
73	Howea forsteriana	Good	1.7	2.2	Retain tree, transplant to new location on site, refer to landscape plan.	
	Kentia palm	Area m2	9	15	김 한 영화 등 방법에 가슴을 통해 많이 다른 것이 한 것이 없이 다. 이 것을 했다.	
74	Arecastrum romanzoffianum	Good	2.8	2.7	Removal recommended. Species exempt Councils TPO	
	Queen palm	Area m2	25	23		
75	Arecastrum romanzoffianum	Good	2.2	2.5	Removal recommended. Species exempt Councils TPO	
	Queen palm	Area m2	15	20	에 있는 것은	

Tree No.	Botannical Name Common Name	Condition	TPZ m. rad.	SRZ m. rad.	Comments / Recommendations
76	Arecastrum romanzoffianum	Good	2.7	2.6	Removal recommended. Species exempt Councils TPO
	Queen palm	Area m2	23	21	
77	Arecastrum romanzoffianum	Good	2.3	1.9	Removal recommended. Species exempt Councils TPO
	Queen palm	Area m2	17	11	
78	Syzygium australe	Fair	3.6	2.4	Removal recommended.Tree will be adversly impacted by proposed development
	Lillypilly spp.	Area m2	41	18	





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NOTES ON SAFE USEFUL LIFE EXPECTANCY (SULE RATING) AS USED IN TREE DESCRIPTION TABLE

In a planning context the time a tree can expect to be usefully retained is the most important long-term consideration. Safe Useful Life Expectancy (SULE) is the life expectancy of the tree modified first by its age, health, condition, safety and location (to give safe life expectancy), then by economics, effects on better trees and sustained amenity (Barrel! 1993 and 1995). Trees with short SULE may at present be making a contribution to the landscape but their value to the local amenity will decrease rapidly towards the end of this period, prior to their being removed for safety or aesthetic reasons.

SULE categories

	1 LONG SULE	2 MEDIUM SULE	3 SHORTSULE	4 REMOVALS	5 MOVED OR REPLACED
A	Long: appeared to be retainable alt the time of assessment for over 40 years with an acceptable degree of risk, assuming reasonable maintenance.	Medium: appeared to be retainable at the time of assessment for 15 to 40 years with an acceptable degree of risk, assuming reasonable maintenance.	Short- appeared to be retainable at the time of assessment for 5 to 15 years with an acceptable degree of risk, assuming reasonable maintenance.	Removal: trees which should be removed within the next 5 years.	Moved or Replaced: Trees which can be readily moved or replaced
В	Structurally sound trees located in positions that can accommodate future growth	Trees that may only live between 15 and 40 more years	Trees that may only live between 5 and 1 5 more years.	Dead, dying, suppressed or declining trees through disease or inhospitable conditions	Small trees less than 5 metres (m) in height
С	Trees that could be made suitable for long-term retention 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 damage, structural defect, instability or recent toss of adjacent trees.	Young trees less than 1 5 years old but ove 5m in height
D	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 should 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.	Dangerous trees through structural detects including cavities, decay, included bark, wounds or poor form.	Trees that have been regularly pruned to artificially control growth'
Е		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	
F				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 planting	
G				Trees that are damaging or may cause damage to existing structures within 5 years	
Н				Trees that will become dangerous after removal of other trees for the reasons given in A) to F).	

Smyth Planning

From: Sent: To: Cc: Subject: Robyn Askew <askew@kmc.nsw.gov.au> Tuesday, 29 November 2016 9:02 AM Smyth Planning Janice Buteux-Wheeler 144 - 148 Killeaton Street St Ives - tree removal

Dear Meg,

In reference to our telephone conversation yesterday I wish to confirm that Council would have no objection to the removal of T3 – *Lophostemon confertus* (Brushbox) provided that it is replaced with canopy tree in approximately the same location. The plans would need to be amended to reflect these changes.

I want to emphasise that the removal of T3 is solely your client's decision. If your client chooses not to remove T3 then Council will ensure that any future works carried out on the adjoining property will not result in unacceptable impacts on the tree.

Kind regards

Robyn Askew | Senior Landscape Assessment Officer | Ku-ring-gai Council

raskew@kmc.nsw.gov.auP: 9424 0884 | F: 9424 0001 E: raskew@kmc.nsw.gov.au | www.kmc.nsw.gov.au Ku-ring-gai: Sydney's green heart

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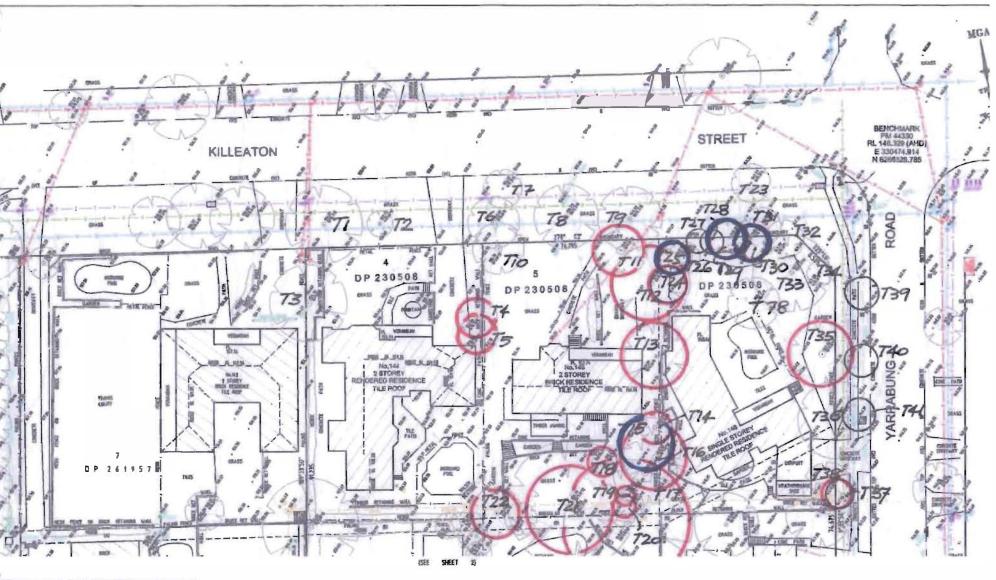
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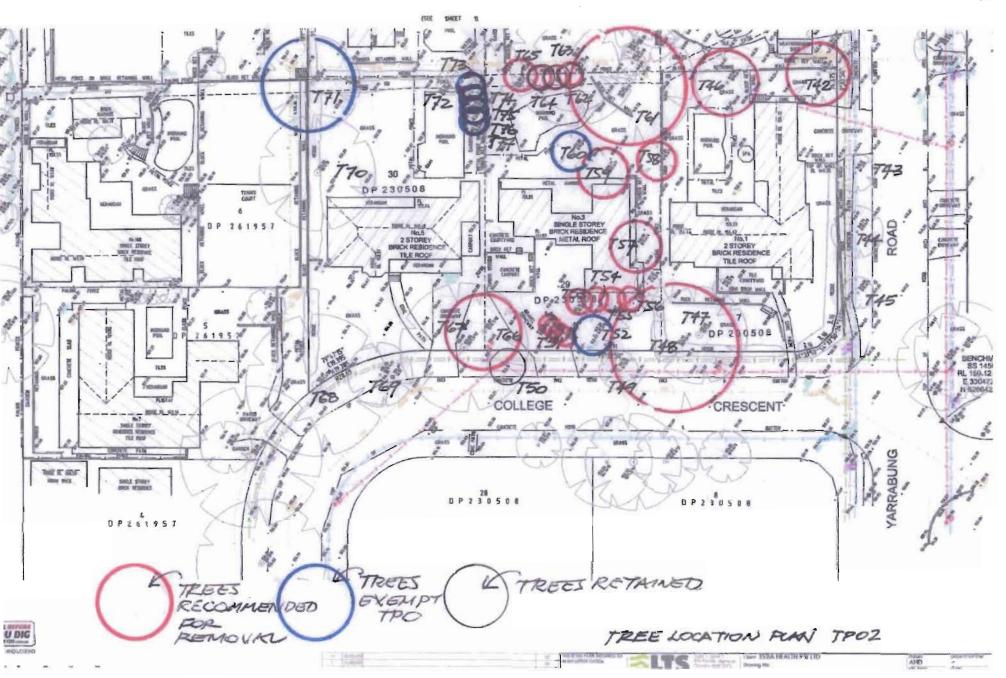
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NOTES ON SAFE USEFUL LIFE EXPECTANCY (SULE RATING) AS USED IN TREE DESCRIPTION TABLE

In a planning context the time a tree can expect to be usefully retained is the most important long-term consideration. Safe Useful Life Expectancy (SULE) is the life expectancy of the tree modified first by its age, health, condition, safety and location (to give safe life expectancy), then by economics, effects on better trees and sustained amenity (Barrel! 1993 and 1995). Trees with short SULE may at present be making a contribution to the landscape but their value to the local amenity will decrease rapidly towards the end of this period, prior to their being removed for safety or aesthetic reasons.

SULE categories

	1 LONG SULE	2 MEDIUM SULE	3 SHORTSULE	4 REMOVALS	5 MOVED OR REPLACED
A	Long: appeared to be retainable alt the time of assessment for over 40 years with an acceptable degree of risk, assuming reasonable maintenance.	Medium: appeared to be retainable at the time of assessment for 15 to 40 years with an acceptable degree of risk, assuming reasonable maintenance.	Short- appeared to be retainable at the time of assessment for 5 to 15 years with an acceptable degree of risk, assuming reasonable maintenance.	Removal: trees which should be removed within the next 5 years.	Moved or Replaced: Trees which can be readily moved or replaced
В	Structurally sound trees located in positions that can accommodate future growth	Trees that may only live between 15 and 40 more years	Trees that may only live between 5 and 1 5 more years.	Dead, dying, suppressed or declining trees through disease or inhospitable conditions	Small trees less than 5 metres (m) in height
С	Trees that could be made suitable for long-term retention 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 damage, structural defect, instability or recent toss of adjacent trees.	Young trees less than 1 5 years old but over 5m in height
D	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 should 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.	Dangerous trees through structural detects including cavities, decay, included bark, wounds or poor form.	Trees that have been regularly pruned to artificially control growth'
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G				Trees that are damaging or may cause damage to existing structures within 5 years	
Н				Trees that will become dangerous after removal of other trees for the reasons given in A) to F).	

	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
1	Liquidambar orientalis	М	11	9	665	900	8	3.2	2	Street tree, deciduous tree introduced to the site, good condition, the	2a
	Oriental sweet gum					Area m2	201	32		species is not rare or endangered, structure and form modified by pruning, small branch and twig die back, no visible evidence of pests or disease, low hanging branches impact public access.	
2	Liquidambar orientalis	М	11	9	540	750	6.5	2.9	2	Street tree, deciduous tree introduced to the site, good condition, the	2a
	Oriental sweet gum					Area m2	133	26		species is not rare or endangered, structure and form modified by pruning, small branch and twig die back, no visible evidence of pests or disease, , low hanging branches impact public access.	
3	Lophostemon confertus	М	11	10	303	673	7.2	2.8	2	Evergreen native tree introduced to the site, good condition, the species is	3a
	Brushbox				517	Area m2	163	25		not rare or endangered, co-dominant stems, strong union, small branch and twig die back, thinning crown, no visible evidence of pests or	
	Magnolia grandflora 'Exmouth'								1	disease. The tree root system is compromised by the previous excavation to 950mm within the TPZ & SRZ for the construction of a retaining wall 1.5m from the trunk.	
4	Magnolia grandflora 'Exmouth'	М	4	4	180	250	2.2	1.8	3	Evergreen tree introduced to the site, fair condition, the species is not rare	3a
	Magnolia 'Exmouth'					Area m2	15	10		or endangered, structure and form modified by pruning, decline in vigour	
5	Franklinia axillaris	M	5	4	183	340	3.4	2.1	3	Small evergreen tree/tall shrub introduced to the site, fair condition, the	3a
	Fried - egg tree			· ·	215	Area m2		14		species is not rare or endangered, structure and form modified by	54
				_		Alea IIIz				pruning, small branch and twig die back, no visible evidence of pests or disease	
6	Liquidambar styraciflua	М	15	10	507	820	6.1	3	2	Street tree, deciduous tree introduced to the site, good condition, the	2a
	Sweet gum					Area m2	117	28		species is not rare or endangered, co-dominant stems, strong union, minor small branch and twig die back, no visible evidence of pests or disease	
7	Pistacia chinensis	M	4.5	7	173	300	2.1	2	2	Street tree, deciduous tree introduced to the site, fair condition, the	2e
	Chinese Pistachio			 		Area m2	14	13		species is not rare or endangered, structure and form typical of the species, no visible evidence of pests or disease, poor structure and form.	
8	Liquidambar styraciflua	М	16	13	2x250	920	8.2	3.2	2	Street tree, deciduous tree introduced to the site, good condition, the	2e
	Sweet gum				2x300	Area m2	211	32		species is not rare or endangered, co-dominant stems, inclusion, minor small branch and twig die back, structure and form modified by pruning	
					403					low hanging branches impact public access	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
9	Liquidambar styraciflua	М	11	12	646	850	7.8	3.1	2	Street tree, deciduous tree introduced to the site, good condition, the	2a
	Sweet gum					Area m2	191	30		species is not rare or endangered, structure and form typical of the species, aerial cables above/through crown	20
10	Agathis robusta	М	23	7	910	1050	10.9	3.4	2	Conifer species introduced to the site, good condition, the species is not	2e
	Queensland Kauri					Area m2	373	36		rare or endangered, structure and form typical of the species, no visible evidence of pests or disease, invaded by ivy vine	
11	Eucalyptus scoparia	M	17	13	840	1300	10.1	3.7	3	Evergreen native tree introduced to the site, fair condition, the species is	3a
	Willow gum			 		Area m2	320	43		not rare or endangered, structure and form modified by pruning, small branch and twig die back, thinning crown, epicormic growth, storm damage, invaded by ivy vine	
12	Cupressus species	М	16	5	3x150	810	6.8	3	3	Conifer species introduced to the site, average condition, the species is not	4b
	Cypress tree				4x250	Area m2	145	28		rare or endangered, co-dominant stems, strong union, small branch and twig die back, decline in vigour	
13	Arbutus unedo	M	8	7	290	540	5.6	2.6	2	Evergreen tree introduced to the site, good condition, the species is not	2a
	Strawberry tree				365	Area m2	99	21		rare or endangered, co-dominant stems, strong union, small branch and twig die back, modified by pruning	
14	Eucalyptus scoparia	OM	13	6	680	1100	8.2	3.4	4	Evergreen native tree introduced to the site, very Poor condition, the	4b
	Willow gum					Area m2	211	36		species is not rare or endangered, dead wood and die back, storm damage, tree stressed, decline in vigour	
15	Liquidambar styraciflua	M	9	7	370	506	4.4	2.5	2	Deciduous tree introduced to the site, fair condition, the species is not	3a
	Sweet gum			 		Area m2	61	20		rare or endangered, suppressed, exempt Council's TPO	
16	Eucalyptus scoparia	M	15	7	820	1350	9.8	3.8	3	Evergreen native tree introduced to the site, poor condition, the species is	4c
	Willow gum					Area m2	302	45		not rare or endangered, small branch and twig die back, storm damage, tree stressed, decline in vigour, invaded by ivy vine, tree overturned	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
17	Cedrus deodara	М	17	11	700	1000	8.4	3.3	3	Conifer species introduced to the site, fair condition, the species is not rare or endangered, structure and form typical of the species, dead wood	3a
	Himalayan cedar					Area m2	222	34		and die back, heavily suppressed by adjoining trees.	
18	Cupressus species	М	12	4	192	464	3.8	2.4	3	Conifer species introduced to the site, average condition, the species is not	4b
	Cypress tree				248	Area m2	45	18		rare or endangered, dead wood and die back, tree stressed, decline in vigour	
19	Cupressus species	OM	12	2	257	452	3.1	2.4	4	Conifer species introduced to the site, poor condition, the species is not	4b
	Cypress tree			 		Area m2	30	18		rare or endangered, dead wood and die back, suppressed, tree stressed, decline in vigour	
20	Cupressus species	OM	12	3	317	405	3.8	2.3	4	Conifer species introduced to the site, poor condition, the species is not	4b
	Cypress tree					Area m2	45	17		rare or endangered, dead wood and die back, suppressed, tree stressed, decline in vigour	
21		M	11	9	645	1015	7.7	3.3	3	Evergreen tree introduced to the site, fair condition, the species is not rare	3a
	Kaffir-plum					Area m2	186	34		or endangered, structure and form typical of the species, small branch and twig die back, storm damage, decline in vigour	
22	Harpephyllum caffrum	Μ	11	7	507	830	6.1	3.1	3	Evergreen tree introduced to the site, fair condition, the species is not rare	За
	Kaffir-plum					Area m2	117	30		or endangered, structure and form typical of the species, decline in vigour, heavily invaded by ivy vine	
23	Pistacia chinensis	M	5	7	215	356	3.1	2.1	2	Street tree, deciduous tree introduced to the site, good condition, the	2a
25	Chinese Pistachio		5		148	Area m2	30	14		species is not rare or endangered, structure and form modified by pruning, small branch and twig die back	20
							-			אי מחוווק, אוזמו אימווכוו מווע נשוצ עוב אמנא	
24	Harpephyllum caffrum	М	11	8	280	703	6.2	2.9	3	Evergreen tree introduced to the site, fair condition, the species is not rare	3a
	Kaffir-plum				290	Area m2	121	26		or endangered, co-dominant stems, strong union, small branch and twig die back, thinning crown, decline in vigour	
					322						

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
25	Arecastrum romanzoffianum	М	10	5	310	660	3.7	2.8	2	Palm species introduced to the site, good condition, the species is not rare	2a
	Queen palm					Area m2	43	25		or endangered, structure and form typical of the species	
26	Archontophoenix alexandrae	М	6	4	181	285	2.2	2	2	Palm species introduced to the site, good condition, the species is not rare or endangered, structure and form typical of the species	2a
	Alexander palm					Area m2	15	13		or endangered, structure and form typical of the species	
27	Araucaria heterophylla	SM	12	4	272	382	3.3	2.2	2	Conifer species introduced to the site, good condition, the species is not	2a
	Norfolk Island pine			=		Area m2	34	15		rare or endangered, structure and form typical of the species	
28		SM	9	1.5	113	162	1.4	1.5	2	Evergreen tree indigenous to the locality, good condition, the species is	2a
	Smooth bark apple					Area m2	6	7		not rare or endangered, structure and form typical of the species	
29	Arecastrum romanzoffianum	M	15	5	281	620	3.4	2.7	2	Palm species introduced to the site, good condition, the species is not rare	2a
	Queen palm					Area m2	36	23		or endangered, structure and form typical of the species, exempt Council's TPO	
30	Arecastrum romanzoffianum	М	10	5	270	415	3.2	2.3	2	Palm species introduced to the site, good condition, the species is not rare	2a
	Queen palm					Area m2	32	17		or endangered, structure and form typical of the species, exempt Council's TPO	
31	Araucaria heterophylla	SM	11	4.5	252	329	3	2.1	2	Conifer species introduced to the site, good condition, the species is not	2a
	Norfolk Island pine					Area m2	28	14		rare or endangered, structure and form typical of the species	
32	Araucaria heterophylla	SM	9	4	179	252	2.1	1.9	3	Conifer species introduced to the site, good condition, the species is not	2a
	Norfolk Island pine					Area m2	14	11		rare or endangered, structure and form typical of the species	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
33	Eucalyptus paniculata	М	18	15	599	820	7.2	3	2	Evergreen tree indigenous to the locality, good condition, the species is	2a
	Grey iron bark					Area m2	163	28		not rare or endangered, structure and form typical of the species, small branch and twig die back, thinning crown, no visible evidence of pests or disease	
34	Melaleuca quinquenervia	SM	8	4	230	360	2.8	2.2	2	Evergreen native tree introduced to the site, good condition, the species is	2a
	Broad leaf paper-bark					Area m2	25	15		not rare or endangered, structure and form typical of the species, dead wood and die back, small branch and twig die back, no visible evidence of pests or disease	
35	Eucalyptus scoparia	M	14	16	663	1050	8	3.4	3	Evergreen native tree introduced to the site, poor condition, the species is	3c
	Willow gum					Area m2	201	36		not rare or endangered, most of the foliage derived from epicormics, tree stressed, decline in vigour, distinct lean towards SW	
36		M	11	9	2X172	715	5.2	2.9	2	Evergreen tree indigenous to the locality, good condition, the species is	2a
	Water gum				197	Area m2	85	26		not rare or endangered, co-dominant stems, inclusion, small branch and twig die back, structure and form modified by pruning	
					300						
37	Jacaranda mimosifolia	М	8	3	259	281	3.1	1.9	3	Deciduous tree introduced to the site, fair condition, the species is not rare or endangered, structure and form modified by pruning, poor form	3a
	Jacaranda tree			_		Area m2	30	11			
38	Melaleuca quinquenervia	М	15	9	2x114	820	6.8	3	2	Evergreen native tree introduced to the site, good condition, the species is	2a
	Broad leaf paper-bark				542	Area m2	145	28		not rare or endangered, co-dominant stems, strong union, no visible evidence of pests or disease	
39	Corymbia gummifera	SM	11	2.5	158	239	1.9	1.8	2	Small evergreen tree/tall shrub introduced to the site, tree not tagged,	2a
	Red blood wood					Area m2	11	10		evergreen tree indigenous to the locality, fair condition, the species is not rare or endangered, structure and form typical of the species, small branch and twig die back	
40	Eucalyptus saligna	SM	8	3	95	150	1.1	1.5	2	Street tree, tree not tagged, evergreen tree indigenous to the locality, good	2a
	Sydney Blue gum					Area m2	4	7		condition, the species is not rare or endangered, co-dominant stems, strong union, no visible evidence of pests or disease	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
41	Eucalyptus saligna	М	12	4	210	307	2.5	2	2	Street tree, tree not tagged, evergreen tree indigenous to the locality, good	2e
	Sydney Blue gum			-		Area m2	20	13		condition, the species is not rare or endangered, structure and form typical of the species, trunk wound, small branch and twig die back	
42	Tecoma stans	М	10	6	2x110	360	3.7	2.2	3	Evergreen tree introduced to the site, fair condition, the species is not rare	2c
	Yellow bells				205 170	Area m2	43	15		or endangered, co-dominant stems, strong union, structure and form modified by pruning, invasive species	
43	Tristaniopsis laurina	M	6	7	177	303	3.2	2	2	Street tree, evergreen native tree introduced to the site, good condition,	2a
	Water gum			-	200	Area m2	32	13		the species is not rare or endangered, co-dominant stems, strong union, small branch and twig die back, no visible evidence of pests or disease	
44		М	9	10	246	514	4.4	2.5	2	Street tree, evergreen native tree introduced to the site, good condition,	2a
	Water gum	268 Area m2 61 20 the species is not rare or endangered, co-dominant stems, strong u small branch and twig die back, no visible evidence of pests or diseated in the species is not rare or endangered.	the species is not "rare or endangered, co-dominant stems, strong union, small branch and twig die back, no visible evidence of pests or disease								
45	Tristaniopsis laurina	М	7	8	3x100	393	3.7	2.2	2	Street tree, evergreen native tree introduced to the site, good condition,	2a
	Water gum				3x150	Area m2	43	15		the species is not rare or endangered, co-dominant stems, inclusion, small branch and twig die back, no visible evidence of pests or disease	
46	Harpephyllum caffrum	М	9	11	562	650	6.7	2.8	3	Evergreen tree introduced to the site, fair condition, the species is not rare	3a
	Kaffir-plum					Area m2	141	25		or endangered, poor structure and form, small branch and twig die back	
47	Eucalyptus robusta	М	19	11	870	1020	10.4	3.3	2	Evergreen native tree introduced to the site, fair condition, the species is	3a
	Swamp mahogany			-		Area m2	340	34		not rare or endangered, structure and form typical of the species, co- dominant stems at 1.5 m above ground level, strong union, small branch and twig die back, extensive exposed surface roots	
48	Eucalyptus scoparia	М	17	15	900	1700	10.8	4.1	3	Evergreen native tree introduced to the site, fair condition, the species is	3e
	Willow gum					Area m2	366	53		not rare or endangered, structure and form typical of the species, small branch and twig die back, thinning crown, storm damage, tree stressed, slight decline in vigour	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
49	Ulmus procera 'Louis van Houtte'	М	4	10	3x150	580	4.6	2.6	2	Street tree, deciduous tree introduced to the site, fair condition, the	2a
	Golden elm			1	2x200	Area m2	66	21		species is not rare or endangered, co-dominant stems, strong union, structure and form modified by pruning	
50	Ulmus procera 'Louis van Houtte'	М	4	6	3x110	323	2.8	2.1	2	Street tree, deciduous tree introduced to the site, fair condition, the	2a
	Golden elm				130	Area m2	25	14		species is not rare or endangered, co-dominant stems, strong union, structure and form modified by pruning	
51	Cupressus sempervirens 'Swanes G'	М	8	1.5	200	350	2.4	2.1	2	Conifer species introduced to the site, row planting comprising 4 trees,	2a
	Swane's golden cypress			1		Area m2	18	14		good condition, the species is not rare or endangered, structure and form typical of the species	
52	Arecastrum romanzoffianum	М	9	5	212	405	2.5	2.3	2	Palm species introduced to the site, good condition, the species is not rare	2c
	Queen palm					Area m2	20	17		or endangered, structure and form typical of the species, exempt Council's TPO	
53	Camellia japonica	М	4	3	Multi stem	190	3	1.6	2	Small evergreen tree/tall shrub introduced to the site, good condition, the	2a
	Camellia			1		Area m2	28	8		species is not rare or endangered, structure and form typical of the species	
54	Camellia reticulata	М	4	3	Multi stem	180	3	1.6	2	Small evergreen tree/tall shrub introduced to the site, good condition, the	2a
	Reticulata					Area m2	28	8		species is not rare or endangered, structure and form typical of the species	
55	Camellia reticulata	M	4.5	3	Multi stem	185	3	1.6	2	Small evergreen tree/tall shrub introduced to the site, good condition, the	2a
	Reticulata					Area m2	28	8		species is not rare or endangered, structure and form typical of the species	
56	Camellia japonica	М	4.5	3	Multi stem	190	3	1.6	2	Small evergreen tree/tall shrub introduced to the site, good condition, the	2a
	Camellia					Area m2	28	8		species is not rare or endangered, structure and form typical of the species	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
57	Celtis occidentalis	М	9	10	360	480	4.3	2.4	3	Deciduous tree introduced to the site, good condition, the species is not	2c
57	Hackberry	141	5	10	500	Area m2	58	18	5	rare or endangered, structure and form typical of the species, small branch and twig die back, invasive species	20
58	Callistemon viminalis	OM	6	6	3x100	300	2.1	2	3	Evergreen native tree introduced to the site, poor condition, the species is not rare or endangered, co-dominant stems, strong union, small branch	3e
	Weeping bottlebrush					Area m2	14	13		and twig die back, thinning crown, decline in vigour, invaded by ivy vine	
59	Tibouchina lepidota	M	6	8	9x100	710	3.6	2.9	3	Evergreen tree introduced to the site, average condition, the species is not	За
	Lasiandra					Area m2	41	26		rare or endangered, co-dominant stems, strong union, suppressed, thinning crown	
60	A		0		262			2.6	2		
60		M	8	5	363	550	4.4 61	2.6 21	2	Palm species introduced to the site, good condition, the species is not rare or endangered, structure and form typical of the species, exempt Council's	2c
	Queen palm					Area m2	01	21		ТРО	
61	Celtis occidentalis	М	17	15	642	850	7.7	3.1	2	Deciduous tree introduced to the site, average condition, the species is not	3e
	Hackberry			_		Area m2	186	30		rare or endangered, invaded by ivy vine throughout entire crown, invasive species	
62	Cupressus species	М	12	2	190	420	2.3	2.3	3	Conifer species introduced to the site, average condition, the species is not	3e
	Cypress tree					Area m2	17	17		rare or endangered, small branch and twig die back, suppressed	
63	Cupressus species	М	15	3	320	435	3.8	2.3	3	Conifer species introduced to the site, average condition, the species is not rare or endangered, small branch and twig die back, suppressed	3e
	Cypress tree			_		Area m2	45	17			
64	Cupressus species	М	15	3	306	392	3.7	2.2	3	Conifer species introduced to the site, average condition, the species is not	3e
	Cypress tree					Area m2	43	15		rare or endangered, small branch and twig die back, suppressed	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
65	Cupressus species	М	15	3	230	332	2.8	2.1	3	Conifer species introduced to the site, average condition, the species is not	3e
	Cypress tree					Area m2	25	14		rare or endangered, small branch and twig die back, suppressed	
66	Eucalyptus scoparia	М	16	10	624	820	7.5	3	2	Evergreen native tree introduced to the site, fair condition, the species is	3a
	Willow gum		1			Area m2	177	28		not rare or endangered, dead wood and die back, small branch and twig die back, distinct lean towards NE	
67	Eucalyptus saligna	М	20	20	850	1400	10.2	3.8	2	Evergreen tree indigenous to the locality, fair condition, the species is not	2e
	Sydney Blue gum					Area m2	327	45		rare or endangered, structure and form typical of the species, small branch and twig die back, modified by past pruning. The existing masony covers	
										84m2 or 26% of the TPZ.	
68	,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	М	33	22	1230	1450	14.8	3.9	2	Evergreen tree indigenous to the locality, good condition, the species is not rare or endangered, structure and form modified by pruning, small	2e
	Sydney Blue gum					Area m2	688	48		branch and twig die back, bracket fungi observed main stem in trunk wound at 5 metres above ground level. May require further investigation	
69	Liquidambar orientalis	M	99	0	452	780	5.4	3	2	with Resistograph by others. Street tree, deciduous tree introduced to the site, good condition, the	2a
05	•		55	0	752	Area m2	92	28		species is not rare or endangered, structure and form typical of the species	20
	Oriental sweet gum					Aled IIIZ	52	20			
70	Angophora costata	М	18	17	722	1200	8.7	3.6	2	Evergreen tree indigenous to the locality, good condition, the species is	2a
	Smooth bark apple					Area m2	238	41		not rare or endangered, structure and form typical of the species, small branch and twig die back, no visible evidence of pests or disease	
71	Acer negundo	M	9	8	362	645	6.4	2.8	2	Deciduous tree introduced to the site, good condition, the species is not	2c
	Box elder				394	Area m2	129	25		rare or endangered, co-dominant stems, inclusion, exempt Council's TPO	
72	Howea forsteriana	M	7	4.5	142	330	1.7	2.1	2	Palm species introduced to the site, good condition, the species is not rare	2-
12			/	4.3	142				Z	or endangered, structure and form typical of the species, transplant to new	2a
	Kentia palm					Area m2	9	14		location on site	

Tree No.	Botannical Name Common Name	Age Class	Height m	Spread m	DCH mm	DRB mm	TPZ m. rad.	SRZ m. rad.	L/Sc Amen.	Description, Condition and Comments	SULE
73	Howea forsteriana	М	6	4.5	144	365	1.7	2.2	2	Palm species introduced to the site, good condition, the species is not rare	2a
	Kentia palm					Area m2	9	15		or endangered, structure and form typical of the species, transplant to new location on site	
74	Arecastrum romanzoffianum	М	8	3	230	590	2.8	2.7	2	Palm species introduced to the site, good condition, the species is not rare	2c
	Queen palm					Area m2	25	23		or endangered, structure and form typical of the species, exempt Council's TPO	
75		M	7	3	187	490	2.2	2.5	2	Palm species introduced to the site, good condition, the species is not rare	2c
	Queen palm			-		Area m2	15	20		or endangered, structure and form typical of the species, exempt Council's TPO	
76	Arecastrum romanzoffianum	М	9	4	228	565	2.7	2.6	3	Palm species introduced to the site, good condition, the species is not rare	2c
	Queen palm					Area m2	23	21		or endangered, structure and form typical of the species, exempt Council's TPO	
77	Arecastrum romanzoffianum	М	7	4	188	258	2.3	1.9	2	Palm species introduced to the site, good condition, the species is not rare	2c
	Queen palm					Area m2	17	11		or endangered, structure and form typical of the species, exempt Council's TPO	
78	Syzygium australe	М	12	5	300	450	3.6	2.4	2	Evergreen native tree introduced to the site, fair condition, the species is	2a
	Lillypilly spp.					Area m2	41	18		not rare or endangered, structure and form modified by pruning, no visible evidence of pests or disease	
	Lillypilly spp.					Area m2	41	18		visible evidence of pests or disease	