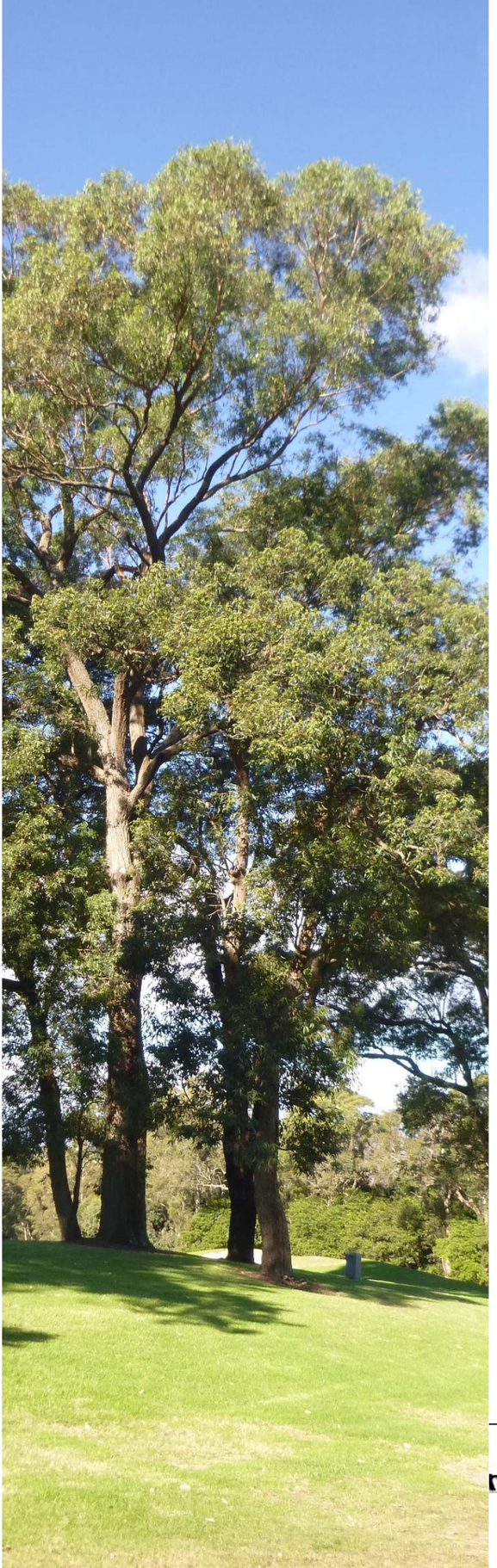


arboricultural impact assessment – waterbrook bayview cabbage tree rd, bayview

application for site compatibility certificate

30th June 2014

prepared by Melanie Howden - Ass. Dip. Hort. (Haw. Ag. C.), SoA. Arb. MAIH, MIACA

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

Executive Summary

This report has been prepared to assess the condition and significance of a number of trees within and adjacent the proposed allotment on Bayview Golf Course Bayview and assess the potential impact of the proposed Senior Living Facility on the identified trees. This report has been prepared to accompany an application for a Site Compatibility Certificate made to the NSW Department Planning & Environment. The assessments carried out in this report are based upon the Australian Standard 4970 - 2009, Protection of Trees on Development Sites. The terminology used in this report is also consistent with that used in the AS 4970-2009.

The report has been commissioned by Bayview Waterbrook and site instructions have been provided by Planix Projects. Site inspections and field work were undertaken between the 9th & 16th May 2014.

The subject site has an area of approximately 2ha and is located in the north western annex of Bayview Golf Course on the northern side of Cabbage Tree Road, at Bayview. The vegetation on the site is typical of many golf courses consisting of open mown grass fairways, greens & tees with canopy trees lining the fairways. A narrow band of denser vegetation occurs on the steeper land and along the Cabbage Tree Road frontage. The majority of the trees are indigenous species with some exotic and non-indigenous tree plants.

The proposed development involves subdivision of part of the golf course and construction of a seniors living facility with a basement level car park (Marchese Partners, 2014). Whilst there are several thousand trees on the golf course, **234** trees on or adjacent the proposed allotment have been considered in this report. Of these **234** trees:

- **98** trees are proposed to be retained, and;
- **136** trees to be removed

Contents

sheet 1 - this cover page
sheet 2 - existing site – tree locations & reference numbers
sheet 3-15 - arboricultural assessment - tree data sheets
sheet 16 - proposed development - tree retention & removal
sheet 17-25 - impact of proposed development on individual trees
sheet 26 - tree protection measures and report summary

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of	project	drawing title
melanie howden	1: 800	30/06/14	aiabn2.01	0.1	2	26	arboricultural impact assessment - waterbrook bayview, cabbage tree rd	existing site - tree locations & reference numbers

tree significance

significance in the environment

Trees need to be considered in the overall environment and are subject to specific legislation such as:

- Threatened Species Conservation Act (NSW) 1995, and
- Noxious Weeds Act (NSW) 1993.

Threatened Species Conservation Act (NSW) 1995
The Threatened Species Conservation Act lists in its schedules a number of species, populations or ecological communities that are either endangered or vulnerable. The Act requires the preparation of a species impact statement if an activity or development is going to have a significant effect on species, populations or endangered ecological communities listed in the schedules of the Act. Where identified on or adjacent the site, threatened tree species are considered in this report, however no attempt is made to identify threatened ecological communities or populations.

Noxious Weeds Act (NSW) 1993
The Noxious Weeds Act provides the Minister with the powers to issue an Order declaring a plant noxious and these plants can be either agricultural or significant environmental pest species. The Minister's declaration may specify a plant to be noxious in part or all of the State and the Minister also may specify the level of noxious weed control required for that species.

Environmental Pest Species
There are a number of environmental pest species that commonly cause problems in developed urban areas or readily spread into natural bushland areas. In urban areas these species can have aggressive root systems and cause damage to built structures or services. Alternatively some species can be problematic in natural bushland areas degrading habitats and reducing natural biodiversity.
Many of these are not considered noxious but are recognised by Councils as pest species and are exempt from protection under Council's Tree Preservation Order.

significance in the landscape

Assessment of a tree's significance in the landscape is generally categorised as either:

- Very High Landscape Significance- prominent from a broad landscape perspective;
- High Landscape Significance - prominent from a neighbourhood perspective;
- Moderate Landscape Significance - prominent from adjacent areas surrounding the site, and
- Low Landscape Significance - prominent from a site perspective only.

tree condition & life expectancy

condition

The assessment of the trees condition is undertaken by visual inspection of the trees themselves, surrounding vegetation and the site conditions.

An assessment of each tree is undertaken taking into account the condition of the tree's roots, trunk, branches, foliage, previous pruning works, pests and disease, nesting hollows, fauna scratchings and the surrounding environment that may influence the condition of the tree.

Safe Useful Life Expectancy (SULE)

The condition information is used to determine the Safe Useful Life Expectancy (SULE) of each tree and takes into account the age of the tree, the life span of the species, local environment conditions, estimated life expectancy, the location of the tree and safety aspects.

The SULE method takes into account whether a tree can be retained with an acceptable level of risk based on the information available at the time of inspection. A SULE assessment is not static as it relates to the tree's health and the surrounding conditions. Whilst it is recognised that changes to the tree's condition will effect the assessment, changes to the surrounding environment may result in changes to the SULE assessment.

Table 1 Safe Useful Life Expectancy (SULE), (Barrell, 2001)

Category	Description
1	Long -Life span greater than 40 years
2	Medium - Life span from 15 to 40 years
3	Short - Life span from 5 to 15 years
4	Should be removed within 5 years
5	Small, Young or Regularly Pruned, Trees that can readily be moved or replaced.

In addition to the categories listed above, trees that show signs of imminent structural failure are listed as 'Unstable'.

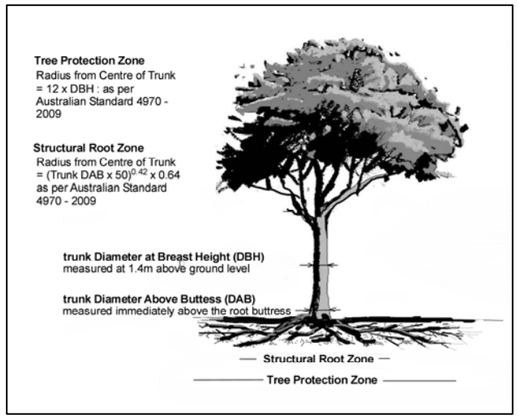
Unstable	Unstable in the ground or have significant trunk damage rendering them structurally hazardous.

development planning & general impacts on trees

tree protection zones

Where trees are intended to be retained, development footprints should be located away from trees so as to provide adequate clearances for a tree protection zone.
Disturbance within Tree Protection Zones can be detrimental to the tree's root system and in turn affect the stability, health and condition of the tree. In many cases damage to the root systems is the major cause of tree decline in urban areas.

Figure 3.1 Typical diagram of a Tree Protection Zone & Structural Root Zone of a tree based upon AS 4970 – 2009.



Where trees are multi-trunk specimens assessment needs to be made based upon the number of trunks and the diameter of each trunk. Based upon the Australian Standard for Protection of Trees on Development Sites, AS 4970 – 2009, the DBH of multi-trunk trees is calculated by:

$$DBH = \sqrt{(DBH_1)^2 + (DBH_2)^2 + (DBH_3)^2}$$

development design & Tree Protection Zones

Where trees are intended to be retained, proposed developments must provide an adequate Tree Protection Zone around trees. This Tree Protection Zone is set aside for the tree's root zone and it is essential for the stability and longevity of the tree. Existing soil levels should be retained within the Tree Protection Zone.

Based upon the Australian Standard for Protection of Trees on Development Sites, AS 4970 – 2009, the radius of the Tree Protection Zone (TPZ) is calculated as: TPZ = 12 x DBH with a minimum 2.0m radius and a maximum 15m radius.

developments within the Tree Protection Zone

Minor encroachments into Tree Protection Zones
Based upon AS 4970 – 2009 some development activity can occur within the vicinity of trees and minor encroachments can occur within the calculated Tree Protection Zone provided that:

- no more that 10% of the area (m2) of the Tree Protection Zone is removed (0.7 x TPZ radius on 1 side only);
- the encroachment does not extend into the Structural Root Zone, and
- the area (m2) to be removed is compensated for by increasing the distance of the Tree Protection Zone in other directions so that there is no net loss in area (m2) of the Tree Protection Zone

Major encroachments into Tree Protection Zones
Where the proposed development activity is greater than that described as a minor encroachment (refer above); the activity is considered to be a major encroachment into the Tree Protection Zone.

Where major encroachments are to occur within the Tree Protection Zone of trees intended to be retained, it must be demonstrated that the works or activities will not have a significant impact on the health and condition of the tree. To demonstrate this detailed root mapping investigation by non invasive methods may be necessary; and other factors such as the age class, health & vigour, trunk lean, disturbance tolerance of the species, and building design may need to be taken into account in the arboricultural assessment.

Where major encroachments are proposed to occur into the Tree Protection Zone the tree's Structural Root Zone should also be taken into account.

developments within the tree's Structural Root Zone

The Structural Root Zone is the area surrounding the tree where the severance of roots and excavation is likely to affect the structural stability of the tree and is likely to have a significant detrimental impact on the health & condition of the tree.
Based upon AS 4970 – 2009 the radius of a tree's Structural Root Zone (SRZ) is determined by measuring the diameter of the trunk immediately above the root buttress (DAB) and calculated by: SRZ = (DAB x 50) 0.42 x 0.64.

Developments should not encroach into the tree's Structural Root Zone and existing soil levels must remain unchanged. Excavation should not occur within this area unless a detailed arboricultural assessment is undertaken and Specific Tree Protection measures will be required.

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On/ off Site	TPZ Radius (m)	Area of TPZ (m2)
1	*Syncarpia glomulifera*	Turpentine	13	6	220	340	Mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	Parsonsia Vine is growing on the tree.	1	On site	2.6	21.9
2	*Eucalyptus paniculata*	Ironbark	17	14	480	600	Mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	Within road reserve	5.8	104.3
2.1	*Allocasuarina torulosa*	Forest Oak	10	3	140	220	Semi-mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	10%	The tree appears to be suppressed by the adjacent vegetation	2	On site	2	12.6
2.2	*Angophora floribunda*	Rough-Barked Apple	15	8	380	420	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On the boundary line	4.6	65.4
3	*Angophora floribunda*	Rough-Barked Apple	12	3	220	300	Mature twin trunk (at 3m) tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in poor health and displays poor vigour.	Poor	20%	The tree appears to be suppressed by Parsonsia Vine and Epicormic Growth is present on the main trunk.	4	On the boundary line	2.6	21.9
4	*Eucalyptus paniculata*	Ironbark	17	5	240	300	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	25%	The tree appears to be suppressed by the adjacent vegetation and is covered with Parsonsia Vine. Dieback is also evident in the canopy.	3	Within road reserve	2.9	26.1

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188878
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of	project	drawing title
melanie howden	nts	30/06/14	aiasd2.01	0.1	3	26	arboricultural impact assessment - waterbrook bayview, cabbage tree rd	tree assessment – data sheets

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On/ off Site	TPZ Radius (m)	Area of TPZ (m2)
5	*Angophora floribunda*	Rough-Barked Apple	18	6	300	450	Mature twin trunk (at 8m) tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in poor health and displays poor vigour.	Poor	40%	The tree has a sparse canopy and Epicormic Growth.	4	On site	3.6	40.7
6	*Angophora floribunda*	Rough-Barked Apple	20	5	320	450	Mature twin trunk (at 4m) tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in poor health and displays poor vigour.	Poor	30%	The only live foliage in the upper canopy and Parsonsia Vine is growing on the tree.	4	On site	3.8	46.3
7	*Eucalyptus pilularis*	Blackbutt	8	4	200	240	Semi-mature twin trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	15%	The southern leader has failed at 1.8m and the tree is suppressed by Parsonsia Vine.	2	On the boundary line	2.4	18.1
8	*Syncarpia glomulifera*	Turpentine	13	9	320	400	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	20%	The tree appears to be suppressed by the adjacent vegetation and is covered with Parsonsia Vine.	2	Within road reserve	3.8	46.3
9	*Syncarpia glomulifera*	Turpentine	12	1	420	480	Mature single trunk tree with an upright form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in poor health and displays poor vigour.	Fair	15%	The tree has failed previously at 12m and is smothered with Parsonsia Vine.	4	On site	5	79.8
10	*Angophora floribunda*	Rough-Barked Apple	15	7	400	500	Mature single trunk tree with an upright forest form; a slight trunk lean to the south and majority of canopy and branch development is towards the south. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree displays some signs of instability and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	25%	The tree has a trunk wound from ground level to 1.4m and has Cissus and Parsonsia Vines smothering the tree.	3	Within road reserve	4.8	72.4
11	*Angophora floribunda*	Rough-Barked Apple	16	7	400	450	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	15%	The tree appears to be suppressed by the adjacent vegetation and is covered with Parsonsia Vine.	3	On site	4.8	72.4
12	*Allocasuarina torulosa*	Forest Oak	6	3	1*160, 1*180	500	Semi-mature twin trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Good	10%	The tree has Cissus and Parsonsia Vines on the tree.	3	On the boundary line	2.9	26.2
13	*Angophora floribunda*	Rough-Barked Apple	18	8	340	500	Mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree displays some signs of instability and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	15%	There is swelling of the trunk and a trunk wound at 0.4m with Decay present. Termite tracks are evident and the tree is covered with Parsonsia Vine.	3	On site	4.1	52.3
14	*Allocasuarina torulosa*	Forest Oak	5	3	200	300	Mature single trunk tree with a broad spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in poor health and displays poor vigour.	Fair	25%	The tree is being smothered with Parsonsia Vine and detached branches are hanging in the canopy.	4	On site	2.4	18.1
16	*Angophora floribunda*	Rough-Barked Apple	24	8	1000	1500	Mature single trunk tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	20%	Previous limb failure has occurred reducing the tree's canopy spread and the tree is covered with Cissus and Parsonsia Vines.	3	On adjacent allotment	12	452.6
16.1	*Angophora floribunda*	Rough-Barked Apple	13	1	400	600	Dead single trunk tree with an upright form; an upright trunk/s and no branches or foliage. No evidence of significant branch pruning.	Low L/scape Sig.	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour.	None	100%	The tree is dead	Unstable	On adjacent allotment	2.7	22.9
17	*Glochidion ferdinandi*	Cheese Tree	9	6	1*300, 1*390, 1*90	600	Mature multi trunk tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	2	On the boundary line	6	113.2
17.1	*Ligustrum lucidum*	Large Leaf Privet	8	6	1*100, 1*200, 1*190	530	Mature multi trunk tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Noxious Weed	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	15%	None evident	1	On site	3	27.4
18	*Angophora floribunda*	Rough-Barked Apple	8	0	1*110, 1*120, 1*200	380	Dead multi trunk tree with an upright form; an upright trunk/s and balanced branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be dead and displays no signs of any vigour.	None	100%	The tree is dead and covered with Parsonsia Vine	Unstable	Within road reserve	2.2	15.2
19	*Angophora floribunda*	Rough-Barked Apple	12	4	410	450	Dead twin trunk tree with an upright form; an upright trunk/s and balanced branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be dead and displays no signs of any vigour.	None	100%	The tree is dead and covered with Parsonsia Vine	Unstable	On site	2.4	18.1
20	*Casuarina glauca*	Swamp Oak	18	6	390	550	Mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	1	On site	4.7	68.8
21	*Eucalyptus paniculata*	Ironbark	17	10	1*480, 1*220	780	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site	6.3	126.2
22	*Casuarina glauca*	Swamp Oak	20	5	360	550	Mature single trunk tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site	4.3	58.7
22.1	*Corymbia maculata*	Spotted Gum	12	6	230	280	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree displays some signs of instability and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	10%	The tree has an extensive trunk wound at 1.4m on the southern side.	3	On site	2.8	23.9
22.2	*Casuarina glauca*	Swamp Oak	17	6	410	560	Mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	Madeira Vine is growing on the tree.	1	On site	4.9	76.1

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188677
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of
melanie howden	nts	30/06/14	aiasd2.01	0.1	4	26

project
arboricultural impact assessment - waterbrook bayview, cabbage tree rd

drawing title
tree assessment – data sheets

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On/ off Site	TPZ Radius (m)	Area of TPZ (m2)
22.3	*Eucalyptus robusta*	Swamp Mahogany	11	5	190	270	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	5%	The tree appears to be suppressed by Vines	1	On site	2.3	16.3
22.4	*Corymbia maculata*	Spotted Gum	13	4	160	210	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	5%	The tree has several trunk wounds and Epicormic Growth.	2	On site	2	12.6
22.5	*Corymbia maculata*	Spotted Gum	8	3	180	220	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	5%	Epicormic growth is present and there is bark cracking and Decay in the basal area.	4	On site	2.2	14.7
22.6	*Eucalyptus robusta*	Swamp Mahogany	12	6	220	330	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	15%	None evident	1	On adjacent allotment	2.6	21.9
22.7	*Eucalyptus robusta*	Swamp Mahogany	10	11	360	510	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	1	Within road reserve	4.3	58.7
23	*Casuarina glauca*	Swamp Oak	17	3	230	280	Mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site	2.8	23.9
24	*Casuarina glauca*	Swamp Oak	20	4	220	280	Mature single trunk tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	1	On site	2.6	21.9
25	*Casuarina glauca*	Swamp Oak	21	10	430	490	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site	5.2	83.7
26	*Ligustrum lucidum*	Large Leaf Privet	10	8	1*170, 1*80, 1*180, 1*210	450	Mature multi trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Noxious Weed	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	2	On site	3.4	37.2
27	*Eucalyptus robusta*	Swamp Mahogany	12	5	1*140, 1*90, 1*60	220	Semi-mature twin trunk tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Fair	<5%	The tree appears to be suppressed by the adjacent vegetation	1	On site	2.1	14.2
28	*Syzygium paniculatum*	Magenta Lillypilly	9	9	460	520	Mature single trunk tree with a broad spreading form; an upright trunk/s and majority of canopy and branch development is towards the west. No evidence of significant branch pruning.	Threatened Species	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays good vigour.	Good	20%	The top of the central leader and a smaller leader have failed at 8m and detached branches are hanging in the canopy.	1	On adjacent allotment	5.5	95.8
29	*Livistona australis*	Cabbage Palm	5	5	350	550	Mature single trunk tree with an elevated spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Excellent	<5%	None evident	1	On the boundary line	1.4	6.2
41	*Glochidion ferdinandi*	Cheese Tree	6	6	1*60, 1*210	270	Mature twin trunk tree with an upright spreading form; an upright trunk/s and majority of canopy and branch development is towards the north. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	Parsonsia Vine is growing on the tree.	2	On site	2.6	21.6
41.1	*Eucalyptus paniculata*	Ironbark	18	20	1000	1300	Mature twin trunk (at 4m) tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	1	On site	12	452.6
42	*Syzygium smithii*	Lilly Pilly	9	3	180	220	Semi-mature single trunk tree with an upright elliptical form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Fair	5%	Parsonsia Vine is growing on the tree.	2	Within road reserve	2.2	14.7
43	*Eucalyptus paniculata*	Ironbark	12	9	420	550	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site	5	79.8
49	*Angophora floribunda*	Rough-Barked Apple	15	6	250	310	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	20%	The tree has a sparse thinning canopy.	3	On site	3	28.3
50	*Angophora floribunda*	Rough-Barked Apple	14	12	1*280, 1*360, 1*420	1200	Mature multi trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south east. No evidence of significant branch pruning.	High L/scape Sig.	The tree displays some signs of instability and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour.	Poor	50%	The tree has a sparse canopy with reduced leaf size and brittle dead wood.	4	On site	7.4	174
52	*Glochidion ferdinandi*	Cheese Tree	7	6	1*200, 1*220	500	Mature twin trunk tree with an upright spreading form; a slight trunk lean to the north and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On site	3.6	40
53	*Casuarina glauca*	Swamp Oak	15	6	300	400	Mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	Parsonsia Vive is growing on the base of the tree.	1	On site	3.6	40.7

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet of	project	drawing title
melanie howden	**nts**	**30/06/14**	**aiasd2.01**	**0.1**	**5 26**	**arboricultural impact assessment - waterbrook bayview, cabbage tree rd**	**tree assessment – data sheets**

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On/ off Site	TPZ Radius (m)	Area of TPZ (m2)
54	*Casuarina glauca*	Swamp Oak	21	10	500	700	Mature single trunk tree with a tall elliptical form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site	6	113.1
55	*Casuarina glauca*	Swamp Oak	21	7	400	660	Mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site	4.8	72.4
55.1	*Casuarina glauca*	Swamp Oak	13	3	160	240	Semi-mature single trunk tree with an upright elliptical form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site	2	12.6
56	*Casuarina glauca*	Swamp Oak	13	3	1960	240	Mature single trunk tree with an upright elliptical form; a slight trunk lean to the south and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree appears to be suppressed by the adjacent vegetation	2	On site	15	707.1
56.1	*Casuarina glauca*	Swamp Oak	14	5	250	400	Mature twin trunk (at 8m) tree with an upright elliptical form; an upright trunk/s and majority of canopy and branch development is towards the south east. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site	3	28.3
57	*Casuarina glauca*	Swamp Oak	17	9	1*200, 1*300	500	Mature twin trunk tree with an upright elliptical form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	1	On site	4.3	58.8
58	*Casuarina glauca*	Swamp Oak	14	4	200	300	Semi-mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site	2.4	18.1
58.1	*Eucalyptus paniculata*	Ironbark	7	6	300	380	Semi-mature twin trunk (at 2.5m) tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	None evident	1	On site	3.6	40.7
59	*Casuarina glauca*	Swamp Oak	13	5	180	250	Mature single trunk tree with an upright elliptical form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	Parsonsia Vive is growing on the main trunk to 6m.	2	On site	2.2	14.7
60	*Allocasuarina torulosa*	Forest Oak	13	7	2*260	760	Mature twin trunk tree with an upright pyramidal form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	20%	The western trunk has failed at 4m and Parsonsia Vine is growing into the canopy.	3	On site	4.4	61.2
61	*Angophora floribunda*	Rough-Barked Apple	15	6	240	360	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	20%	The tree has Epicormic Growth and Parsonsia Vine is suppressing the tree's growth.	4	On site	2.9	26.1
62	*Eucalyptus paniculata*	Ironbark	20	14	700	900	Mature single trunk tree with a tall forest form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	High L/scape Sig.	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be in poor health and displays fair vigour.	Good	25%	The top 4m of the central leader is dead. The tree has a trunk wound from ground level to 4m and another at 10m. There is a Termite Nest at 10m.	Unstable	On site	8.4	221.8
63	*Allocasuarina torulosa*	Forest Oak	16	9	360	550	Mature twin trunk (at 5m) tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	10%	The southern leader has a tear wound at 7m and detached branches are hanging in the canopy.	2	On site	4.3	58.7
64	*Glochidion ferdinandi*	Cheese Tree	10	5	1*60, 1*160, 1*120, 1*100	380	Mature multi trunk tree with an upright spreading form; an upright trunk/s and no branches or foliage. south east. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	Parsonsia Vine is growing on the tree to 6m.	2	On site	2.8	24.3
65	*Glochidion ferdinandi*	Cheese Tree	10	6	1*100, 1*150, 1*120, 1*100	450	Mature multi trunk tree with an upright spreading form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On site	2.9	25.8
65.1	*Casuarina glauca*	Swamp Oak	18	3	240	300	Mature single trunk tree with an upright elliptical form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Fair	5%	The tree appears to be suppressed by the adjacent vegetation and is a spindly specimen.	1	On site	2.9	26.1
65.2	*Angophora floribunda*	Rough-Barked Apple	10	3	140	200	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays good vigour.	Fair	40%	The tree appears to be suppressed by the adjacent vegetation	1	On site	2	12.6
66	*Allocasuarina torulosa*	Forest Oak	13	6	1*220, 1*200	500	Mature twin trunk tree with an upright pyramidal form; an upright trunk/s and majority of canopy and branch development is towards the north. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	10%	The tree appears to be suppressed by the adjacent vegetation and is covered with Parsonsia Vine.	2	On site	3.6	40
67	*Livistona australis*	Cabbage Palm	4	4	450	550	Mature single trunk tree with an elevated spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	1	On site	1.3	5.3
68	*Angophora floribunda*	Rough-Barked Apple	18	13	600	700	Mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	None evident	1	On site	7.2	162.9

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of
melanie howden	**nts**	**30/06/14**	**aiasd2.01**	**0.1**	**6**	**26**

project
arboricultural impact assessment
- waterbrook bayview, cabbage tree rd

drawing title
tree assessment – data sheets

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On/ off Site	TPZ Radius (m)	Area of TPZ (m2)
69	*Eucalyptus paniculata*	Ironbark	20	13	550	600	Mature single trunk tree with a tall forest form; an upright trunk/s and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	1	On site	6.6	136.9
70	*Eucalyptus sp.*	-	17	11	380	450	Mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site	4.6	65.4
71	*Glochidion ferdinandi*	Cheese Tree	8	6	1*100, 1*120, 1*160, 2*200	500	Mature multi trunk tree with a broad spreading form; an upright trunk/s and majority of canopy and branch development is towards the north. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	2	On site	4.3	58.8
72	*Glochidion ferdinandi*	Cheese Tree	9	8	1*300, 1*200	400	Mature twin trunk tree with an upright spreading form; an upright trunk/s and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	2	On site	4.3	58.8
73	*Eucalyptus sp.*	-	18	7	380	500	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site	4.6	65.4
73.1	*Glochidion ferdinandi*	Cheese Tree	7	4	1*80, 2*120	280	Semi-mature multi trunk tree with an upright spreading form; an upright trunk/s and majority of canopy and branch development is towards the north. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On site	2.3	15.9
74	*Pittosporum undulatum*	Sweet Pittosporum	8	3	2*200, 1*60	360	Mature multi trunk tree with a broad spreading form; an upright trunk/s and majority of canopy and branch development is towards the north. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	15%	The tree is covered with Parsonsia Vine and there is cracking in the lower trunk.	3	On site	3.5	37.8
75	*Glochidion ferdinandi*	Cheese Tree	5	4	1*120, 1*200	360	Mature multi trunk tree with a broad spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On site	2.8	24.6
76	*Angophora floribunda*	Rough-Barked Apple	12	10	500	650	Mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Good	20%	Some Epicormic Growth evident and the tree has sparse foliage and Termite tracks.	3	On site	6	113.1
77	*Eucalyptus paniculata*	Ironbark	22	20	750	900	Mature single trunk tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	10%	Parsonsia Vine is growing on the tree to 3m and there is a Termites nest at 10m.	1	On site	9	254.6
78	*Allocasuarina torulosa*	Forest Oak	5	5	250	340	Mature single trunk tree with an upright spreading form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	None evident	2	On site	3	28.3
79	*Melaleuca quinquenervia*	Paperbark	8	8	400	460	Mature single trunk tree with an upright spreading form; an upright trunk/s and majority of canopy and branch development is towards the north. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays good vigour.	Good	5%	The tree appears to be suppressed by the climbing vine.	1	On site	4.8	72.4
80	*Angophora floribunda*	Rough-Barked Apple	20	10	500	700	Mature twin trunk (at 6m) tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	30%	The tree has evidence of Termite damage.	3	On site	6	113.1
81	*Melaleuca quinquenervia*	Paperbark	12	10	450	600	Mature twin trunk (at 2m) tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site	5.4	91.6
82	*Allocasuarina torulosa*	Forest Oak	8	6	4*200, 4*180	300	Mature multi trunk tree with a broad spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	The tree appears to be suppressed by the adjacent vegetation	2	On site	5.3	87.1
83.5	*Melaleuca quinquenervia*	Paperbark	8	8	1*230, 1*400, 1*250	700	Mature multi trunk tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	10%	The tree has Cissus Vine growing into the canopy.	1	On site	6.3	124.6
84	*Ligustrum lucidum*	Large Leaf Privet	7	4	3*200, 2*120, 2*100	400	Mature multi trunk tree with a broad spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Noxious Weed	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site	5.4	90.5
85	*Acacia saligna*	Golden Wreath Wattle	9	12	2*360	600	Over mature twin trunk tree with a broad spreading form; an upright trunk/s and majority of canopy and branch development is towards the north. No evidence of significant branch pruning.	Env. Pest Species - Exempt from Council's DCP	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour.	Good	30%	The tree has a hollow in the main junction and in the northern trunk and has sparse foliage.	Unstable	On site	6.1	117.3
86	*Allocasuarina torulosa*	Forest Oak	12	5	220	300	Mature single trunk tree with an upright elliptical form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	25%	The tree is covered with Parsonsia Vine.	2	On site	2.6	21.9
87	*Angophora floribunda*	Rough-Barked Apple	16	4	400	460	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	10%	The tree has a moderate Bark Inclusion at the main junction, Epicormic Growth, old Termite damage and bark cracking.	3	On site	4.8	72.4

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet of	project	drawing title
melanie howden	**nts**	**30/06/14**	**aiasd2.01**	**0.1**	**7 26**	**arboricultural impact assessment - waterbrook bayview, cabbage tree rd**	**tree assessment – data sheets**

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On/ off Site	TPZ Radius (m)	Area of TPZ (m2)
88	*Allocasuarina torulosa*	Forest Oak	16	7	320	420	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	The tree is covered with Parsonsia Vine.	2	On site	3.8	46.3
89	*Eucalyptus paniculata*	Ironbark	7	8	800	850	Mature single trunk tree with an upright form; an upright trunk/s and majority of canopy and branch development is towards the south east. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour.	Fair	20%	Bracket Fungi is present in the main trunk and the top of the tree has been torn out in a storm above the Fungi Growth.	Unstable	On site	9.6	289.6
90	*Eucalyptus paniculata*	Ironbark	20	12	500	650	Mature single trunk tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Excellent	<5%	None evident	1	On site	6	113.1
90.1	*Syncarpia glomulifera*	Turpentine	18	4	400	480	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	20%	The tree appears to be suppressed by the adjacent vegetation and is covered with Parsonsia Vine.	3	On site	4.8	72.4
90.2	*Syncarpia glomulifera*	Turpentine	16	5	220	300	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south east. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site	2.6	21.9
90.3	*Eucalyptus paniculata*	Ironbark	13	6	240	340	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree appears to be suppressed by the adjacent vegetation	1	On site	2.9	26.1
91	*Syncarpia glomulifera*	Turpentine	11	4	260	380	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	10%	The tree appears to be suppressed by the adjacent vegetation	2	On site	3.1	30.6
92.3	*Syncarpia glomulifera*	Turpentine	13	0	220	300	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	15%	The top of the tree has failed at 13m.	4	On site	2.6	21.9
94	*Angophora floribunda*	Rough-Barked Apple	20	7	400	580	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	25%	The tree is covered with Parsonsia Vine.	3	On site	4.8	72.4
95	*Livistona australis*	Cabbage Palm	16	5	400	600	Mature single trunk tree with an elevated spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	10%	Madeira Vine is growing into the canopy.	1	On site	2.6	21.2
96	*Ceratopetalum apetalum*	Coachwood Tree	15	5	220	300	Mature single trunk tree with an upright elliptical form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Excellent	<5%	None evident	1	On site	2.6	21.9
97	*Ceratopetalum apetalum*	Coachwood Tree	15	3	200	300	Mature single trunk tree with an upright elliptical form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Excellent	<5%	None evident	1	On site	2.4	18.1
98	*Syncarpia glomulifera*	Turpentine	16	7	300	400	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site	3.6	40.7
99	*Ceratopetalum apetalum*	Coachwood Tree	15	8	2*80, 1*340	440	Mature single trunk tree with an upright elliptical form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	1	On site	4.3	58.1
100	*Livistona australis*	Cabbage Palm	16	5	300	460	Mature single trunk tree with an elevated rounded form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Excellent	<5%	None evident	1	On site	2.4	18.1
100.1	*Angophora floribunda*	Rough-Barked Apple	14	7	250	3600	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site	3	28.3
101	*Allocasuarina torulosa*	Forest Oak	17	11	500	650	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	None evident	1	On site	6	113.1
102	*Ceratopetalum apetalum*	Coachwood Tree	16	8	220	320	Mature single trunk tree with an upright elliptical form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site	2.6	21.9
103	*Allocasuarina torulosa*	Forest Oak	14	5	280	500	Mature single trunk tree with an upright elliptical form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On site	3.4	35.5
104	*Allocasuarina torulosa*	Forest Oak	13	9	320	500	Mature single trunk tree with a broad spreading form; a slight trunk lean to the north and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On site	3.8	46.3

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of	project	drawing title
melanie howden	**nts**	**30/06/14**	**aiasd2.01**	**0.1**	**8**	**26**	**arboricultural impact assessment - waterbrook bayview, cabbage tree rd**	**tree assessment – data sheets**

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On/ off Site	TPZ Radius (m)	Area of TPZ (m2)
106	*Angophora floribunda*	Rough-Barked Apple	13	8	240	340	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	10%	The tree appears to be suppressed by the adjacent vegetation	1	On site	2.9	26.1
107	*Eucalyptus paniculata*	Ironbark	24	20	800	1000	Mature single trunk tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site	9.6	289.6
108	*Allocasuarina torulosa*	Forest Oak	13	4	300	400	Mature twin trunk (at 5m) tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree displays some signs of instability and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	20%	The tree appears to be suppressed by the adjacent vegetation and a section of the tree has failed at 4m where a hollow is evident.	3	On site	3.6	40.7
108.1	*Allocasuarina torulosa*	Forest Oak	22	10	500	700	Mature single trunk tree with a tall forest form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	The tree has a trunk wound on the northern side at 0.5m with Termites. Parsonsia Vine is growing into the canopy.	2	On site	6	113.1
109	*Eucalyptus paniculata*	Ironbark	14	5	180	250	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	10%	The tree appears to be suppressed by the adjacent vegetation and has dead wood in the lower canopy.	1	On site	2.2	14.7
110	*Syncarpia glomulifera*	Turpentine	13	8	500	550	Mature multi trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree appears to be suppressed by the adjacent vegetation	1	On site	6	113.1
111	*Angophora floribunda*	Rough-Barked Apple	14	6	400	450	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	25%	The tree has Epicormic Growth	3	On site	4.8	72.4
112	*Angophora floribunda*	Rough-Barked Apple	16	13	1*450, 1*250	650	Mature twin trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	25%	There is evidence of previous limb failure and dieback in the upper canopy.	3	On site	6.2	119.9
113	*Angophora floribunda*	Rough-Barked Apple	13	5	250	300	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	15%	The tree has twiggy dead wood throughout.	2	On site	3	28.3
114	*Angophora floribunda*	Rough-Barked Apple	13	3	180	300	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	15%	The tree has Epicormic Growth and there is mechanical damage at the base.	3	On site	2.2	14.7
115	*Glochidion ferdinandi*	Cheese Tree	8	4	1*230, 1*60	300	Mature single trunk tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On site	2.9	25.6
116	*Syncarpia glomulifera*	Turpentine	15	9	500	700	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	Parsonsia Vine is growing on the tree into the canopy.	1	On site	6	113.1
116.1	*Livistona australis*	Cabbage Palm	12	4	300	500	Mature single trunk tree with an elevated rounded form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	1	On site	2	12.6
117	*Angophora floribunda*	Rough-Barked Apple	8	6	300	360	Mature single trunk tree with an upright forest form; a slight trunk lean to the north west and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	The tree appears to be suppressed by the adjacent vegetation	1	On site	3.6	40.7
118	*Eucalyptus paniculata*	Ironbark	25	20	900	1100	Mature single trunk tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	Bracket Fungi is evident at 10m just above the main junction which should be investigated further by aerial inspection.	1	On site	10.8	366.6
119	*Angophora floribunda*	Rough-Barked Apple	13	6	350	400	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	25%	The tree has mechanical damage at the base on the south western side.	3	On site	4.2	55.4
120	*Eucalyptus robusta*	Swamp Mahogany	11	10	350	500	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south east. Lower limbs of the tree have been pruned to 2m.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	1	On site	4.2	55.4
121	*Eucalyptus paniculata*	Ironbark	18	13	600	700	Mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north west. Lower limbs of the tree have been pruned to 8m.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	The tree is carrying dead wood overhanging the golf green.	1	On site	7.2	162.9
122	*Eucalyptus paniculata*	Ironbark	22	16	800	850	Mature single trunk tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	25%	The tree is carrying a high % of dead wood.	3	On site	9.6	289.6

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of	project	drawing title
melanie howden	**nts**	**30/06/14**	**aiasd2.01**	**0.1**	**9**	**26**	**arboricultural impact assessment - waterbrook bayview, cabbage tree rd**	**tree assessment – data sheets**

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On/ off Site	TPZ Radius (m)	Area of TPZ (m2)
123	*Eucalyptus paniculata*	Ironbark	20	17	850	900	Mature single trunk tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree has a sparse open canopy.	2	On site	10.2	327
124	*Angophora floribunda*	Rough-Barked Apple	12	8	300	320	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	10%	The tree has a sparse canopy and has twiggy deadwood.	2	On site	3.6	40.7
125	*Angophora floribunda*	Rough-Barked Apple	15	11	1*500, 1*600	1200	Mature twin trunk tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. Lower limbs of the tree have been pruned to 8m.	High L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in poor health and displays fair vigour.	Fair	25%	The tree has sparse foliage and reduced leaf size and Kino is evident at numerous points on the trunk.	3	On site	9.4	276.1
126	*Angophora floribunda*	Rough-Barked Apple	17	11	600	800	Mature twin trunk (at 7m) tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in poor health and displays poor vigour.	Fair	25%	The tree has Epicormic Growth and reduced leaf size.	4	On site	7.2	162.9
127	*Pinus radiata*	Monterey Pine	16	5	400	600	Semi-mature single trunk tree with an upright pyramidal form; an upright trunk/s and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays good vigour.	Good	15%	The tree appears to be suppressed by the adjacent vegetation	1	On site	4.8	72.4
128	*Pinus radiata*	Monterey Pine	22	10	650	850	Mature single trunk tree with a tall pyramidal form; an upright trunk/s and majority of canopy and branch development is towards the south. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site	7.8	191.2
129	*Angophora floribunda*	Rough-Barked Apple	12	5	280	380	Mature twin trunk (at 2m) tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in poor health and displays poor vigour.	Poor	25%	None evident	4	On site	3.4	35.5
130	*Glochidion ferdinandi*	Cheese Tree	6	6	2*200	400	Mature twin trunk tree with a broad spreading form; an upright trunk/s and majority of canopy and branch development is towards the south. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree is covered with Madeira Vine on the northern side.	2	On site	3.4	36.2
130.1	*Angophora floribunda*	Rough-Barked Apple	6	6	360	300	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree displays some signs of instability and its branch attachment appears fair. The tree is considered to be in poor health and displays poor vigour.	Poor	30%	The tree has a sparse canopy with reduced leaf size and hollows at 2.5m.	4	On site	4.3	58.7
131	*Angophora floribunda*	Rough-Barked Apple	12	7	350	400	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	10%	The tree has a sparse foliage and reduced leaf size	2	On site	4.2	55.4
132	*Eucalyptus paniculata*	Ironbark	13	10	1*240, 1*400	8550	Mature twin trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south east. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	15%	The tree has twiggy dead wood and Epicormic Growth through the canopy and branching structure.	1	On site	5.4	90.5
133	*Casuarina glauca*	Swamp Oak	16	5	300	550	Mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	2	On site	3.6	40.7
134	*Casuarina glauca*	Swamp Oak	17	6	300	500	Mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	2	On site	3.6	40.7
135	*Casuarina glauca*	Swamp Oak	5	4	160	340	Semi-mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree appears to be suppressed by the adjacent vegetation and the top central leader has failed.	2	On site	2	12.6
136	*Casuarina glauca*	Swamp Oak	16	7	300	600	Mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	2	On site	3.6	40.7
137	*Casuarina glauca*	Swamp Oak	10	3	130	200	Semi-mature single trunk tree with an upright elliptical form; an upright trunk/s and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	The tree appears to be suppressed by the adjacent vegetation	1	On site	2	12.6
138	*Casuarina glauca*	Swamp Oak	14	5	250	400	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	1	On site	3	28.3
139	*Casuarina glauca*	Swamp Oak	5	4	150	300	Semi-mature single trunk tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	1	On site	2	12.6
140	*Allocasuarina torulosa*	Forest Oak	11	8	300	400	Mature twin trunk (at 2m) tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	The tree appears to be suppressed by the adjacent vegetation	2	On site	3.6	40.7
141	*Allocasuarina torulosa*	Forest Oak	13	9	600	680	Mature single trunk tree with an upright spreading form; an upright trunk/s and majority of canopy and branch development is towards the north. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree stability is suspect and its branch attachment appears fair. The tree is considered to be in moderate health and displays good vigour.	Good	10%	The tree has an extensive elongated cavity / wound running up the trunk from 0.4m to 5.0m.	Unstable	On site	7.2	162.9

draft

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On/ off Site	TPZ Radius (m)	Area of TPZ (m2)
142	*Angophora floribunda*	Rough-Barked Apple	23	9	700	800	Mature twin trunk (at 9m) tree with an upright elliptical form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	Some evidence of bark plate cracking.	2	On site	8.4	221.8
143	*Angophora floribunda*	Rough-Barked Apple	7	5	250	300	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	15%	The tree appears to be suppressed by the adjacent vegetation and has twiggy deadwood and some minor wounds on the main trunk.	2	On site	3	28.3
144	*Angophora floribunda*	Rough-Barked Apple	10	2	300	480	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree displays some signs of instability and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour.	Poor	5%	The central leader has failed at 10m and only has suckering branches at 2.5m alive. There is a hollow on the western side in the main trunk and the tree appears to have a history of limb failure.	4	On site	3.6	40.7
145	*Angophora floribunda*	Rough-Barked Apple	23	11	850	1200	Mature single trunk tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays good vigour.	Good	15%	The tree has detached hanging branches in the canopy.	2	On site	10.2	327
146	*Eucalyptus paniculata*	Ironbark	18	14	600	700	Mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south west. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	15%	The tree appears to be suppressed by the adjacent vegetation. The tree has a shallow hollow on the southern side of the trunk at 4m where a limb has failed.	2	On site	7.2	162.9
147	*Angophora floribunda*	Rough-Barked Apple	18	9	480	520	Mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south west. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Good	15%	The tree appears to be suppressed by the adjacent vegetation, there is some evidence of limb failure and Parsonsia Vine is growing on the main trunk. The tree has detached hanging branches in the canopy.	3	On site	5.8	104.3
147.1	*Allocasuarina torulosa*	Forest Oak	5	3	200.	260	Semi-mature single trunk tree with an upright spreading form; a slight trunk lean to the north west and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree appears to be suppressed by the adjacent vegetation.	2	On site	2.4	18.1
148	*Angophora floribunda*	Rough-Barked Apple	17	12	750	900	Mature twin trunk (at 3m) tree with an upright spreading form; an upright trunk/s and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	20%	The tree appears to be suppressed by the adjacent vegetation and has twiggy dieback.	3	On site	9	254.6
149	*Angophora floribunda*	Rough-Barked Apple	16	6	400	550	Mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south east. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	15%	There is evidence of old Termite damage and remnants of an old Possum Box in the tree.	2	On site	4.8	72.4
150	*Pinus radiata*	Monterey Pine	18	8	550	900	Mature single trunk tree with an upright pyramidal form; a slight trunk lean to the north east and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays good vigour.	Good	15%	The lower branching is dead to 15m.	2	On site	6.6	136.9
151	*Angophora floribunda*	Rough-Barked Apple	14	9	500	700	Mature single trunk tree with an upright forest form; a slight trunk lean to the north west and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree displays some signs of instability and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Good	15%	The tree has an extensive basal hollow that extends into the trunk on the southern side. There is evidence of Termite activity.	4	On site	6	113.1
151.1	*Angophora floribunda*	Rough-Barked Apple	10	4	240	350	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	15%	The tree is covered in Vines.	4	On site	2.9	26.1
152	*Eucalyptus paniculata*	Ironbark	22	12	600	750	Mature single trunk tree with a tall forest form; an upright trunk/s and majority of canopy and branch development is towards the south, east & west. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	A Vine is growing on the tree midway into the canopy.	1	On site	7.2	162.9
153	*Eucalyptus paniculata*	Ironbark	23	15	800	950	Mature single trunk tree with a tall forest form; an upright trunk/s and majority of canopy and branch development is towards the north, east & west. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site	9.6	289.6
154	*Angophora floribunda*	Rough-Barked Apple	18	9	800	950	Mature multi trunk (at 4m) tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays good vigour.	Good	10%	Some Epicormic Growth present.	2	On site	9.6	289.6
155	*Eucalyptus paniculata*	Ironbark	20	20	1100	1300	Mature twin trunk (at 4.5m) tree with a tall forest form; a slight trunk lean to the north and majority of canopy and branch development is towards the north, east & west. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Excellent	5%	Dieback is evident on 1 leader in the upper canopy. Bracket Fungi is evident on a dead section of a stub at 10m on the southern leader.	1	On site	13.2	547.6
156	*Pinus radiata*	Monterey Pine	20	2	500	780	Dead single trunk tree with a tall pyramidal form; an upright trunk/s and no branches or foliage. No evidence of significant branch pruning.	Low L/scape Sig.	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be dead and displays no signs of any vigour.	None	100%	The tree is dead	Unstable	On site	3	28.3
157	*Angophora floribunda*	Rough-Barked Apple	16	10	2*500	800	Mature multi trunk (at 1.6m) tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in poor health and displays poor vigour.	Poor	25%	The tree is predominantly Epicormic Growth and the central leader is dead. There is evidence of Termite activity.	4	On site	8.5	226.3
158	*Eucalyptus scias*	Large-fruited Red Mahogony	22	17	1*300, 1*1000	1400	Mature twin trunk tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	15%	The tree has an extensive basal hollow and is carrying large sections of dead wood. Parsonsia Vine is growing on the tree.	1	On site	12.5	493.3

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet of
melanie howden	**nts**	**30/06/14**	**aiasd2.01**	**0.1**	**11 26**

project
arboricultural impact assessment
- waterbrook bayview, cabbage tree rd

drawing title
tree assessment – data sheets

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On/ off Site	TPZ Radius (m)	Area of TPZ (m2)
159	*Pinus radiata*	Monterey Pine	13	2	180	320	Semi-mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree appears to be suppressed by the adjacent vegetation and is a spindly specimen.	1	On site	2.2	14.7
160	*Angophora floribunda*	Rough-Barked Apple	15	5	500	750	Mature twin trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	30%	None evident	3	On site	6	113.1
161	*Eucalyptus paniculata*	Ironbark	18	12	700	800	Mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On adjacent allotment	8.4	221.8
162	*Angophora floribunda*	Rough-Barked Apple	12	5	600	700	Mature multi trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	15%	the tree has Epicormic Growth throughout	3	On site	7.2	162.9
163	*Angophora floribunda*	Rough-Barked Apple	18	16	1*1000, 1*700	1600	Mature multi trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	25%	A dead section of timber has a Bracket Fungi at the base at approximately 10m and the tree has Epicormic Growth.	3	On site	14.6	674.3
164	*Angophora floribunda*	Rough-Barked Apple	13	10	1*500, 1*550, 1*650	950	Mature multi trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree displays some signs of instability and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour.	Fair	30%	The tree is predominately Epicormic Growth and there is evidence of previous limb failure and Decay.	4	On site	11.8	441.3
165	*Pinus radiata*	Monterey Pine	17	7	600	750	Mature single trunk tree with an upright pyramidal form; a slight trunk lean to the north and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Good	15%	The tree appears to be suppressed by the adjacent vegetation	2	On site	7.2	162.9
166	*Angophora floribunda*	Rough-Barked Apple	16	12	1*600, 1*400	1000	Mature multi trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays good vigour.	Good	5%	The southern leader has failed at 8m where a hollow has developed and there are signs of Decay and Termites. Epicormic Growth is evident through the tree.	3	On site	8.7	235.3
167	*Eucalyptus paniculata*	Ironbark	22	18	700	850	Mature twin trunk (at 7m) tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Excellent	<5%	None evident	1	On site	8.4	221.8
168	*Syncarpia glomulifera*	Turpentine	13	8	400	500	Mature twin trunk (at 5m) tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site	4.8	72.4
169	*Syncarpia glomulifera*	Turpentine	13	5	240	300	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site	2.9	26.1
170	*Angophora floribunda*	Rough-Barked Apple	11	3	1*160, 1*250	500	Semi-mature twin trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north. No evidence of significant branch pruning.	Low L/scape Sig.	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour.	Fair	30%	There are Termites and Decay in the basal area and in both main leaders. Only 1 suckering shoot remains attached to the main leader.	Unstable	On site	3.6	39.9
171	*Eucalyptus paniculata*	Ironbark	24	17	800	950	Mature single trunk tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site	9.6	289.6
172	*Pinus radiata*	Monterey Pine	22	11	660	980	Mature single trunk tree with a tall pyramidal form; an upright trunk/s and majority of canopy and branch development is towards the north & south. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	15%	Lower branching is dead.	1	On adjacent allotment	7.9	197.1
173	*Eucalyptus paniculata*	Ironbark	15	5	200	280	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south east. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The canopy on the western side appears to be suppressed.	1	On adjacent allotment	2.4	18.1
174	*Eucalyptus scias*	Large-fruited Red Mahogany	10	5	250	350	Semi-mature twin trunk (at 4.5) tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	1	On adjacent allotment	3	28.3
175	*Syncarpia glomulifera*	Turpentine	10	4	2*200	340	Semi-mature twin trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Good	15%	The tree appears to be suppressed by the adjacent vegetation and is covered in Cissus Vine.	2	On site	3.4	36.2
176	*Eucalyptus paniculata*	Ironbark	22	25	800	880	Mature single trunk tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree displays some signs of instability and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Very Good	40%	The tree has a large trunk wound on the south western side at 4m and appears to have Termite damage. The tree is covered in Cissus Vine and is carrying detached hanging branches. Trunk wound requires further aerial investigations.	2	Within road reserve	9.6	289.6
177	*Syncarpia glomulifera*	Turpentine	9	2	180	220	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	10%	The tree is covered with Parsonsia Vine.	3	On site	2.2	14.7

draft

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On/ off Site	TPZ Radius (m)	Area of TPZ (m2)
178	*Angophora floribunda*	Rough-Barked Apple	10	3	180	220	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	10%	The tree is covered with Parsonsia Vine.	2	On site	2.2	14.7
179	*Angophora floribunda*	Rough-Barked Apple	10	3	1*360, 1*200	400	Semi-mature twin trunk tree with an elevated elliptical form; an upright trunk/s and majority of canopy and branch development is towards the south. One of the trunks has been pruned for overhead wire clearances.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays good vigour.	Good	10%	None evident	2	On site	4.9	76.8
180	*Angophora floribunda*	Rough-Barked Apple	20	10	550	700	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	30%	Parsonsia Vive growing up the trunk.	3	On site	6.6	136.9
181	*Syncarpia glomulifera*	Turpentine	16	6	350	420	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	Parsonsia Vine is growing on the tree.	1	On site	4.2	55.4
182	*Casuarina glauca*	Swamp Oak	15	7	400	650	Mature twin trunk (at 2.5m) tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	2	On site	4.8	72.4
183	*Casuarina glauca*	Swamp Oak	15	7	380	750	Mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	2	On adjacent allotment	4.6	65.4
184	*Eucalyptus robusta*	Swamp Mahogany	12	6	250	400	Semi-mature twin trunk (at 2m) tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	1	On adjacent allotment	3	28.3
185	*Pinus radiata*	Monterey Pine	17	9	650	800	Mature twin trunk (at 7m) tree with an upright pyramidal form; a slight trunk lean to the north and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	Parsonsia Vine is growing into the upper canopy.	1	On adjacent allotment	7.8	191.2
186	*Livistona australis*	Cabbage Palm	12	5	350	550	Mature single trunk tree with an elevated rounded form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Excellent	<5%	None evident	1	On adjacent allotment	1.8	10.2
187	*Syncarpia glomulifera*	Turpentine	17	9	450	600	Mature twin trunk (at 1.6m) tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	1	On adjacent allotment	5.4	91.6
188	*Eucalyptus paniculata*	Ironbark	22	15	800	1000	Over mature single trunk tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree displays some signs of instability and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	15%	The tree has a large trunk wound where a leader has failed at 9m-10m. The tree has a swelling of the trunk at 4m where there is a hollow with Termites on the southern side.	3	On adjacent allotment	9.6	289.6
189.19	*Syncarpia glomulifera*	Turpentine	16	7	280	380	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	Parsonsia Vine is growing into the canopy.	1	On adjacent allotment	3.4	35.5
194	*Syncarpia glomulifera*	Turpentine	10	4	220	280	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Fair	5%	The tree appears to be suppressed by the adjacent vegetation	1	On adjacent allotment	2.6	21.9
195	*Pinus radiata*	Monterey Pine	13	3	220	250	Semi-mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree appears to be suppressed by the adjacent vegetation	1	On adjacent allotment	2.6	21.9
195.1	*Acacia saligna*	Golden Wreath Wattle	5	10	2*200	400	Mature twin trunk tree with a low spreading form; a distinct trunk lean to the west and majority of canopy and branch development is towards the west. No evidence of significant branch pruning.	Env. Pest Species - Exempt from Council's DCP	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour.	Fair	20%	The tree has failed at the base.	Unstable	On site	3.4	36.2
196	*Syncarpia glomulifera*	Turpentine	16	10	500	600	Mature twin trunk (at 4m) tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On adjacent allotment	6	113.1
197	*Glochidion ferdinandi*	Cheese Tree	13	9	1*160, 1*100, 1*300	380	Mature multi trunk tree with a broad spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	2	On adjacent allotment	4.3	56.8
198	*Glochidion ferdinandi*	Cheese Tree	8	6	1*160, 1*200, 1*240	500	Mature twin trunk tree with an upright spreading form; an upright trunk/s and majority of canopy and branch development is towards the south west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On adjacent allotment	4.2	55.8
199	*Syncarpia glomulifera*	Turpentine	15	5	300	500	Mature twin trunk (at 7m) tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree appears to be suppressed by the adjacent vegetation	1	On adjacent allotment	3.6	40.7

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet of	project	drawing title
melanie howden	**nts**	**30/06/14**	**aiasd2.01**	**0.1**	**13 26**	**arboricultural impact assessment - waterbrook bayview, cabbage tree rd**	**tree assessment – data sheets**

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On/ off Site	TPZ Radius (m)	Area of TPZ (m2)
200	*Angophora floribunda*	Rough-Barked Apple	15	7	270	320	Mature single trunk tree with an upright forest form; a distinct trunk lean to the south west and majority of canopy and branch development is towards the south west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	15%	The tree appears to be suppressed by the adjacent vegetation	1	On adjacent allotment	3.2	33
201	*Glochidion ferdinandi*	Cheese Tree	9	85	200	300	Mature single trunk tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On adjacent allotment	2.4	18.1
202	*Alphitonia excelsa*	Red Ash	12	8	400	500	Mature single trunk tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site	4.8	72.4
203	*Angophora floribunda*	Rough-Barked Apple	20	15	550	700	Mature single trunk tree with a tall forest form; an upright trunk/s and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	10%	Branches in the canopy have failed at various points and the tree has sparse foliage.	3	On site	6.6	136.9
204	*Angophora floribunda*	Rough-Barked Apple	12	4	220	280	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Fair	10%	The tree appears to be suppressed by the adjacent vegetation and has a small trunk wound at 2.4m	1	On adjacent allotment	2.6	21.9
217	*Eucalyptus paniculata*	Ironbark	20	12	800	900	Mature single trunk tree with a tall forest form; an upright trunk/s and majority of canopy and branch development is towards the north east. The lower branches have been pruned to 6m.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site	9.6	289.6
218	*Eucalyptus paniculata*	Ironbark	22	14	800	1000	Mature twin trunk (at 10m) tree with a tall forest form; an upright trunk/s and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	Minor storm damage is evident.	1	On site	9.6	289.6
219	*Eucalyptus paniculata*	Ironbark	22	18	800	1150	Mature twin trunk (at 4m) tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	Some Epicormic Growth from pruning stubs.	1	On site	9.6	289.6
220	*Eucalyptus paniculata*	Ironbark	20	18	900	1300	Mature twin trunk tree with a tall forest form; an upright trunk/s and majority of canopy and branch development is towards the north east. Lower limbs of the tree have been pruned to 10m on the northern side.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in good health and displays good vigour.	Good	10%	The tree has an inclusion at the main junction at 4.5m. Recent storm damage has occurred to the lower canopy.	1	On site	10.8	366.6
221	*Eucalyptus paniculata*	Ironbark	22	12	700	900	Mature single trunk tree with a tall forest form; an upright trunk/s and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site	8.4	221.8
223	*Eucalyptus scias*	Large-fruited Red Mahogany	14	11	650	900	Mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south west. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Excellent	<5%	None evident	1	On site	7.8	191.2
224	*Eucalyptus paniculata*	Ironbark	24	25	1*450, 1*900	1*650, 1*1100	Mature twin trunk tree with a tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	There is evidence of recent storm damage and there are detached hanging branches in the canopy.	1	On site	12.1	458.2
225	*Eucalyptus paniculata*	Ironbark	17	7	500	800	Mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree appears to be suppressed by the adjacent vegetation and some Epicormic Growth on lower branch stubs.	1	On site	6	113.1
226	*Allocasuarina torulosa*	Forest Oak	12	9	500	900	Mature twin trunk (at 3m) tree with an upright forest form; a slight trunk lean to the north west and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree displays some signs of instability and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Good	30%	The southern leader has failed at 5m and a Bracket Fungi is evident on a dead leader.	3	On site	6	113.1
227	*Pinus radiata*	Monterey Pine	14	11	700	1000	Mature single trunk tree with an upright spreading form; a slight trunk lean to the east and majority of canopy and branch development is towards the south east. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	15%	None evident	2	On site	8.4	221.8
228	*Angophora floribunda*	Rough-Barked Apple	15	9	450	550	Mature twin trunk (at 3m) tree with a broad forest form; an upright trunk/s and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	20%	Some dieback in the canopy evident.	2	On site	5.4	91.6
229	*Angophora floribunda*	Rough-Barked Apple	16	10	450	550	Mature twin trunk (at 4m) tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On site	5.4	91.6
230	*Eucalyptus paniculata*	Ironbark	18	15	800	900	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree stability is suspect and its branch attachment appears fair. The tree is considered to be in moderate health and displays good vigour.	Very Good	10%	The tree has a large Bracket Fungi at 9m on the main trunk and the main leader has failed at 15m	Unstable	On site	9.6	289.6
231	*Angophora floribunda*	Rough-Barked Apple	12	6	1*250, 1*220	500	Mature twin trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south east. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in poor health and displays poor vigour.	Fair	25%	There is evidence of Decay, limb failure and detached hanging branches in the tree.	4	On site	4	50.2
232	*Angophora floribunda*	Rough-Barked Apple	15	6	350	400	Mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south east. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in poor health and displays poor vigour.	Poor	20%	None evident	4	On site	4.2	55.4

draft

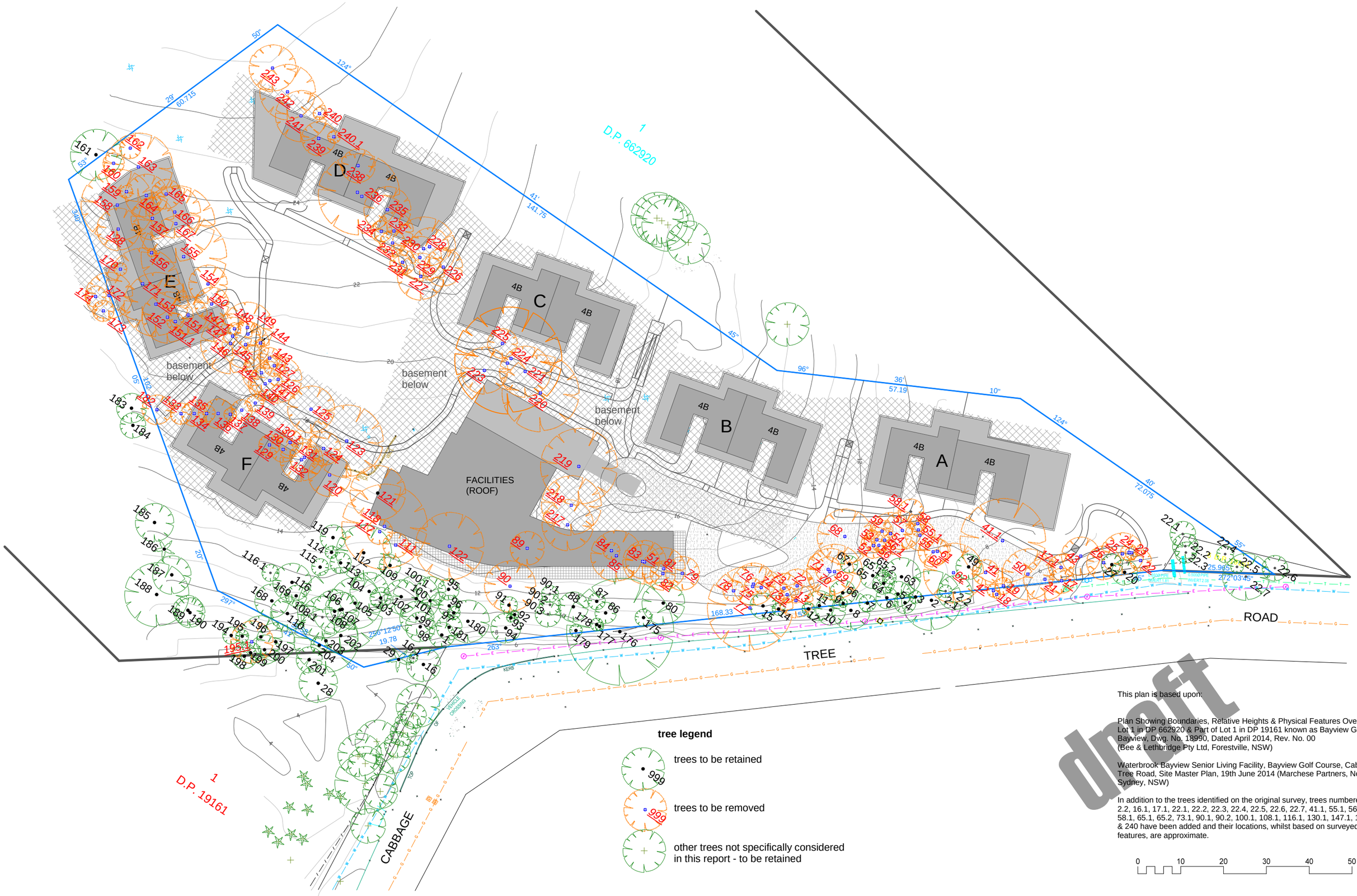
Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet of	project	drawing title
melanie howden	**nts**	**30/06/14**	**aiasd2.01**	**0.1**	**14 26**	**arboricultural impact assessment - waterbrook bayview, cabbage tree rd**	**tree assessment – data sheets**

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On/ off Site	TPZ Radius (m)	Area of TPZ (m2)
233	*Angophora floribunda*	Rough-Barked Apple	13	9	2*350	750	Mature twin trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	20%	There is evidence of mechanical damage to the basal area of the tree.	3	On site	5.9	110.9
234	*Pinus radiata*	Monterey Pine	13	5	350	500	Dead single trunk tree with an upright pyramidal form; an upright trunk/s and balanced branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be dead and displays no signs of any vigour.	None	100%	The tree is dead.	Unstable	On site	2.5	19.6
235	*Eucalyptus paniculata*	Ironbark	22	11	600	700	Mature single trunk tree with a tall forest form; an upright trunk/s and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	High L/scape Sig.	The tree displays some signs of instability and its branch attachment appears sound. The tree is considered to be in moderate health and displays good vigour.	Very Good	10%	The tree has a Bracket Fungi on the southern side of the tree in an old branch stub wound and a trunk wound from 0.5m - 9m on the north eastern side.	4	On site	7.2	162.9
236.7	*Eucalyptus paniculata*	Ironbark	30	19	1*450, 1*950	1* 650, 1*2000	Mature twin trunk tree with an tall forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Very High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Excellent	<5%	None evident	1	On site	12.6	500.1
238	*Pinus radiata*	Monterey Pine	12	8	400	550	Dead single trunk tree with an upright form; an slight trunk lean to the and balanced branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be dead and displays no signs of any vigour.	None	100%	The top of the tree has failed at 12m.	Unstable	On site	2.6	21.2
239	*Lophostemon confertus*	Brushbox	13	8	140	700	Mature single trunk tree with an upright spreading form; an slight trunk lean to the north west and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	10%	Minor twiggy dead wood throughout the canopy.	1	On site	2	12.6
240	*Eucalyptus botryoides*	Bangalay / Southern Mahogany	8	3	1*180, 1*100	280	Semi-mature twin trunk tree with an upright elliptical form; an upright trunk/s and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Fair	10%	The tree appears to be suppressed by the adjacent vegetation	1	On site	2.5	19.2
240.1	*Corymbia maculata*	Spotted Gum	12	3	280	350	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree has a 0.6m long 0.15m wide wound on the lower trunk with Borers present.	2	On site	3.4	35.5
241	*Ficus microcarpa var. hillii*	Hills Fig	13	12	1*200, 1*320, 1*250	500	Mature single trunk tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Env. Pest Species - Exempt from Council's DCP	The tree appears stable and its branch attachment appears fair. The tree is considered to be in good health and displays good vigour.	Good	<5%	Golf ball trunk damage is evident.	1	On site	5.4	92.7
242	*Lophostemon confertus*	Brushbox	13	13	650	900	Mature twin trunk (at 4m) tree with an upright spreading form; an slight trunk lean to the north and balanced canopy and branch development. Lower limbs of the tree have been pruned to 3m.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site	7.8	191.2
243	*Lophostemon confertus*	Brushbox	13	11	750	900	Mature twin trunk (at 6m) tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	Minor twiggy dead wood in the canopy.	1	On site	9	254.6

Figure 15.1 – Typical View of Fairway Trees Looking South on the Proposed Allotment with Tree No. 238 (left in the foreground)

Figure 15.2 – Stand of Trees in the North Western Parts of the Proposed Allotment



tree legend

trees to be retained

trees to be removed

other trees not specifically considered in this report - to be retained

This plan is based upon:

Plan Showing Boundaries, Relative Heights & Physical Features Over Part of Lot 1 in DP 662920 & Part of Lot 1 in DP 19161 known as Bayview Golf Club, Bayview, Dwg. No. 18990, Dated April 2014, Rev. No. 00 (Bee & Lethbridge Pty Ltd, Forestville, NSW)

Waterbrook Bayview Senior Living Facility, Bayview Golf Course, Cabbage Tree Road, Site Master Plan, 19th June 2014 (Marchese Partners, North Sydney, NSW)

In addition to the trees identified on the original survey, trees numbered 2.1, 2.2, 16.1, 17.1, 22.1, 22.2, 22.3, 22.4, 22.5, 22.6, 22.7, 41.1, 55.1, 56.1, 58.1, 65.1, 65.2, 73.1, 90.1, 90.2, 100.1, 108.1, 116.1, 130.1, 147.1, 151.1 & 240 have been added and their locations, whilst based on surveyed features, are approximate.

0 10 20 30 40 50

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet of
melanie howden	**1: 800**	**30/06/14**	**aiabr2.01**	**0.1**	**16 26**

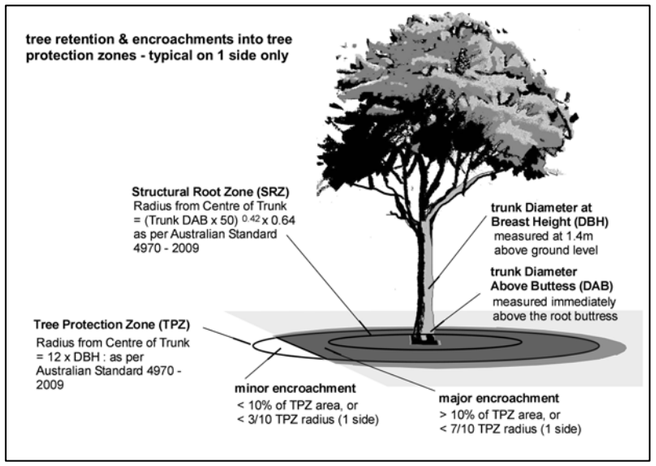
project

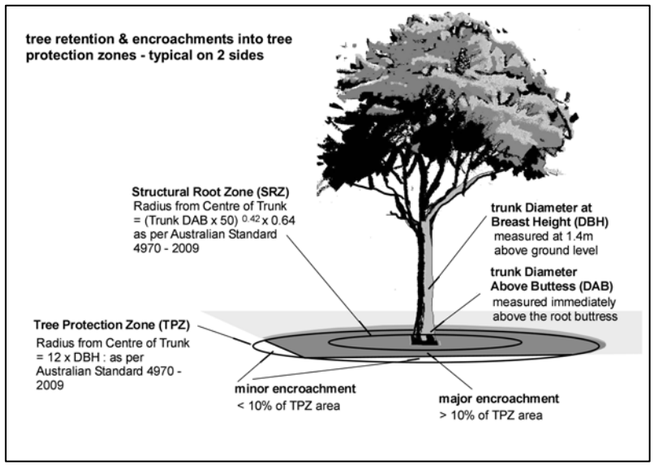
arboricultural impact assessment - waterbrook, cabbage tree rd, bayview

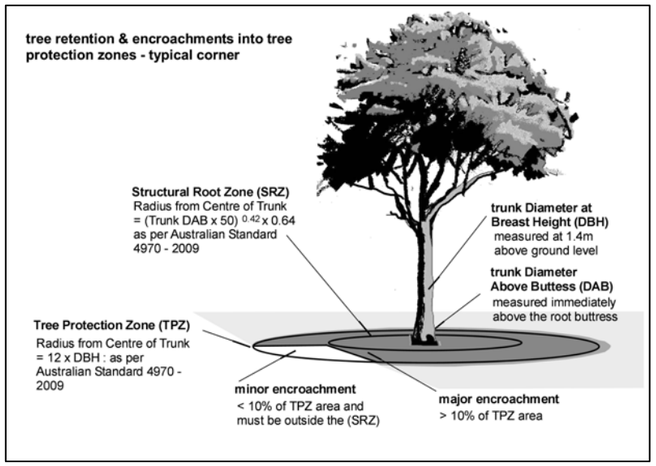
drawing title

proposed development - tree retention & removal

typical application of Australian Standard 4970-2009 - Protection of Trees on Development Sites







Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
1	*Syncarpia glomulifera*	220	340	1	Moderate L/scape Sig.	2.6	21.9	1.8	2.1	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
2	*Eucalyptus paniculata*	480	600	1	High L/scape Sig.	5.8	104.3	4	2.7	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	Within road reserve
2.1	*Allocasuarina torulosa*	140	220	2	Low L/scape Sig.	2	12.6	1.4	1.8	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
2.2	*Angophora floribunda*	380	420	1	High L/scape Sig.	4.6	65.4	3.2	2.3	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On the boundary line
3	*Angophora floribunda*	220	300	4	Moderate L/scape Sig.	2.6	21.9	1.8	2	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On the boundary line
4	*Eucalyptus paniculata*	240	300	3	Moderate L/scape Sig.	2.9	26.1	2	2	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	Within road reserve
5	*Angophora floribunda*	300	450	4	High L/scape Sig.	3.6	40.7	2.5	2.4	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
6	*Angophora floribunda*	320	450	4	High L/scape Sig.	3.8	46.3	2.7	2.4	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
7	*Eucalyptus pilularis*	200	240	2	Low L/scape Sig.	2.4	18.1	1.7	1.8	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On the boundary line
8	*Syncarpia glomulifera*	320	400	2	Moderate L/scape Sig.	3.8	46.3	2.7	2.3	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	Within road reserve
9	*Syncarpia glomulifera*	420	480	4	Moderate L/scape Sig.	5	79.8	3.5	2.4	The proposed driveway is within 6.8m (north west) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
10	*Angophora floribunda*	400	500	3	Moderate L/scape Sig.	4.8	72.4	3.4	2.5	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	Within road reserve
11	*Angophora floribunda*	400	450	3	High L/scape Sig.	4.8	72.4	3.4	2.4	The proposed driveway is within 4.1m (north west) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
12	*Allocasuarina torulosa*	1*160, 1*180	500	3	Low L/scape Sig.	2.9	26.2	2	2.5	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On the boundary line

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of
melanie howden	**nts**	**30/06/14**	**aiasi 2.01**	**0.1**	**17**	**26**

project
arboricultural impact assessment - waterbrook bayview, cabbage tree rd

drawing title
impact of proposed road works on individual trees

Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
13	*Angophora floribunda*	340	500	3	Moderate L/scape Sig.	4.1	52.3	2.9	2.5	The proposed driveway is within 1.3m (north) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	On site
14	*Allocasuarina torulosa*	200	300	4	Low L/scape Sig.	2.4	18.1	1.7	2	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
16	*Angophora floribunda*	1000	1500	3	Very High L/scape Sig.	12	452.6	8.4	3.9	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	
16.1	*Angophora floribunda*	400	600	Unstable	Low L/scape Sig.	2.7	22.9	2.7	2.7	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
17	*Glochidion ferdinandi*	1*300, 1*390, 1*90	600	2	Moderate L/scape Sig.	6	113.2	4.2	2.7	The proposed driveway is within 0.8m (west) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	On the boundary line
17.1	*Ligustrum lucidum*	1*100, 1*200, 1*190	530	1	Noxious Weed	3	27.4	2.1	2.5	The proposed driveway is within 2.2m (west) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	On site
18	*Angophora floribunda*	1*110, 1*120, 1*200	380	Unstable	Low L/scape Sig.	2.2	15.2	2.2	2.2	The driveway crossing is likely to be within less than 1.5m (east) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	Within road reserve
19	*Angophora floribunda*	410	450	Unstable	Low L/scape Sig.	2.4	18.1	2.4	2.4	The proposed driveway is within 0.5 (east) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	On site
20	*Casuarina glauca*	390	550	1	High L/scape Sig.	4.7	68.8	3.3	2.6	The proposed accessible path is within 4.0m (north) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
21	*Eucalyptus paniculata*	1*480, 1*220	780	1	High L/scape Sig.	6.3	126.2	4.4	3	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
22	*Casuarina glauca*	360	550	1	High L/scape Sig.	4.3	58.7	3	2.6	The proposed accessible path is within 1.2m (north) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	On site
22.1	*Corymbia maculata*	230	280	3	Moderate L/scape Sig.	2.8	23.9	1.9	1.9	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site

Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
22.2	*Casuarina glauca*	410	560	1	High L/scape Sig.	4.9	76.1	3.4	2.6	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
22.3	*Eucalyptus robusta*	190	270	1	Moderate L/scape Sig.	2.3	16.3	1.6	1.9	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
22.4	*Corymbia maculata*	160	210	2	Low L/scape Sig.	2	12.6	1.4	1.7	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
22.5	*Corymbia maculata*	180	220	4	Low L/scape Sig.	2.2	14.7	1.5	1.8	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
22.6	*Eucalyptus robusta*	220	330	1	Moderate L/scape Sig.	2.6	21.9	1.8	2.1	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
22.7	*Eucalyptus robusta*	360	510	1	Moderate L/scape Sig.	4.3	58.7	3	2.5	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	Within road reserve
23	*Casuarina glauca*	230	280	1	High L/scape Sig.	2.8	23.9	1.9	1.9	The proposed accessible path spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
24	*Casuarina glauca*	220	280	1	High L/scape Sig.	2.6	21.9	1.8	1.9	The proposed accessible path spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
25	*Casuarina glauca*	430	490	1	High L/scape Sig.	5.2	83.7	3.6	2.5	The proposed accessible path is within 0.1m (north) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	On site
26	*Ligustrum lucidum*	1*170, 1*80, 1*180, 1*210	450	2	Noxious Weed	3.4	37.2	2.4	2.4	The proposed accessible path is within 1.6m (north) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	On site
27	*Eucalyptus robusta*	1*140, 1*90, 1*60	220	1	Low L/scape Sig.	2.1	14.2	1.5	1.8	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
28	*Syzygium paniculatum*	460	520	1	Threatened Species	5.5	95.8	3.9	2.5	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
29	*Livistona australis*	350	550	1	Low L/scape Sig.	1.4	6.2	1	1	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On the boundary line

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188878
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of
melanie howden	nts	30/06/14	aiasi 2.01	0.1	18	26

project
arboricultural impact assessment - waterbrook bayview, cabbage tree rd

drawing title
impact of proposed road works on individual trees

Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
41	*Glochidion ferdinandi*	1*60, 1*210	270	2	Moderate L/scape Sig.	2.6	21.6	1.8	1.9	The proposed driveway is within 1.5m (north east) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	On site
41.1	*Eucalyptus paniculata*	1000	1300	1	Very High L/scape Sig.	12	452.6	8.4	3.7	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
42	*Syzygium smithii*	180	220	2	Low L/scape Sig.	2.2	14.7	1.5	1.8	The driveway crossing is likely to be within less than 1.5m (east) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	Within road reserve
43	*Eucalyptus paniculata*	420	550	1	Moderate L/scape Sig.	5	79.8	3.5	2.6	The proposed accessible path is within 1.3m (north west) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	On site
49	*Angophora floribunda*	250	310	3	Moderate L/scape Sig.	3	28.3	2.1	2	The proposed driveway is within 2.5m (north east) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
50	*Angophora floribunda*	1*280, 1*360, 1*420	1200	4	High L/scape Sig.	7.4	174	5.2	3.6	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
52	*Glochidion ferdinandi*	1*200, 1*220	500	2	Moderate L/scape Sig.	3.6	40	2.5	2.5	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
53	*Casuarina glauca*	300	400	1	Moderate L/scape Sig.	3.6	40.7	2.5	2.3	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
54	*Casuarina glauca*	500	700	1	High L/scape Sig.	6	113.1	4.2	2.8	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
55	*Casuarina glauca*	400	660	1	High L/scape Sig.	4.8	72.4	3.4	2.8	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
55.1	*Casuarina glauca*	160	240	1	Low L/scape Sig.	2	12.6	1.4	1.8	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
56	*Casuarina glauca*	1960	240	2	Moderate L/scape Sig.	15	707.1	10.5	1.8	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
56.1	*Casuarina glauca*	250	400	1	Moderate L/scape Sig.	3	28.3	2.1	2.3	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
57	*Casuarina glauca*	1*200, 1*300	500	1	High L/scape Sig.	4.3	58.8	3	2.5	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
58	*Casuarina glauca*	200	300	1	Moderate L/scape Sig.	2.4	18.1	1.7	2	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site

Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
58.1	*Eucalyptus paniculata*	300	380	1	Moderate L/scape Sig.	3.6	40.7	2.5	2.2	The proposed accessible path is within 0.1m (north) and 0.7m (south) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	On site
59	*Casuarina glauca*	180	250	2	Moderate L/scape Sig.	2.2	14.7	1.5	1.8	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
60	*Allocasuarina torulosa*	2*260	760	3	Moderate L/scape Sig.	4.4	61.2	3.1	2.9	The proposed driveway is within 0.7m (north) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	On site
61	*Angophora floribunda*	240	360	4	Moderate L/scape Sig.	2.9	26.1	2	2.2	The proposed driveway is within 0.8m (north) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	On site
62	*Eucalyptus paniculata*	700	900	Unstable	High L/scape Sig.	8.4	221.8	5.9	3.2	The proposed driveway is within 5.5m (north east) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	On site
63	*Allocasuarina torulosa*	360	550	2	High L/scape Sig.	4.3	58.7	3	2.6	The proposed driveway is within 5.9m (north) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
64	*Glochidion ferdinandi*	1*60, 1*160, 1*120, 1*100	380	2	Moderate L/scape Sig.	2.8	24.3	1.9	2.2	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
65	*Glochidion ferdinandi*	1*100, 1*150, 1*120, 1*100	450	2	Moderate L/scape Sig.	2.9	25.8	2	2.4	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
65.1	*Casuarina glauca*	240	300	1	Moderate L/scape Sig.	2.9	26.1	2	2	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
65.2	*Angophora floribunda*	140	200	1	Low L/scape Sig.	2	12.6	1.4	1.7	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
66	*Allocasuarina torulosa*	1*220, 1*200	500	2	Moderate L/scape Sig.	3.6	40	2.5	2.5	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
67	*Livistona australis*	450	550	1	Low L/scape Sig.	1.3	5.3	0.9	0.9	The proposed driveway is within 2.4m (north) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
68	*Angophora floribunda*	600	700	1	High L/scape Sig.	7.2	162.9	5	2.8	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of
melanie howden	nts	30/06/14	aiasi 2.01	0.1	19	26

project
arboricultural impact assessment - waterbrook bayview, cabbage tree rd

drawing title
impact of proposed road works on individual trees

Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
69	*Eucalyptus paniculata*	550	600	1	Very High L/scape Sig.	6.6	136.9	4.6	2.7	The proposed driveway is within 0.9m (west) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	On site
70	*Eucalyptus sp.*	380	450	1	High L/scape Sig.	4.6	65.4	3.2	2.4	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
71	*Glochidion ferdinandi*	1*100, 1*120, 1*160, 2*200	500	2	Moderate L/scape Sig.	4.3	58.8	3	2.5	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
72	*Glochidion ferdinandi*	1*300, 1*200	400	2	Moderate L/scape Sig.	4.3	58.8	3	2.3	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
73	*Eucalyptus sp.*	380	500	1	High L/scape Sig.	4.6	65.4	3.2	2.5	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
73.1	*Glochidion ferdinandi*	1*80, 2*120	280	2	Low L/scape Sig.	2.3	15.9	1.6	1.9	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
74	*Pittosporum undulatum*	2*200, 1*60	360	3	Low L/scape Sig.	3.5	37.8	2.4	2.2	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
75	*Glochidion ferdinandi*	1*120, 1*200	360	2	Low L/scape Sig.	2.8	24.6	2	2.2	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
76	*Angophora floribunda*	500	650	3	High L/scape Sig.	6	113.1	4.2	2.8	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
77	*Eucalyptus paniculata*	750	900	1	Very High L/scape Sig.	9	254.6	6.3	3.2	The proposed driveway is within 2.7m (north) of the tree.	Changes to soil levels are likely to involve fill and or excavation affecting a substantial portion of the tree's root system.	To be Removed	On site
78	*Allocasuarina torulosa*	250	340	2	Moderate L/scape Sig.	3	28.3	2.1	2.1	The proposed driveway spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
79	*Melaleuca quinquenervia*	400	460	1	Moderate L/scape Sig.	4.8	72.4	3.4	2.4	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
80	*Angophora floribunda*	500	700	3	High L/scape Sig.	6	113.1	4.2	2.8	The proposed building footprint is within 5.4m (north) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
81	*Melaleuca quinquenervia*	450	600	1	Moderate L/scape Sig.	5.4	91.6	3.8	2.7	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
82	*Allocasuarina torulosa*	4*200, 4*180	300	2	Moderate L/scape Sig.	5.3	87.1	3.7	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
83.5	*Melaleuca quinquenervia*	1*230, 1*400, 1*250	700	1	Moderate L/scape Sig.	6.3	124.6	4.4	2.8	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site

Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
84	*Ligustrum lucidum*	3*200, 2*120, 2*100	400	1	Noxious Weed	5.4	90.5	3.8	2.3	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
85	*Acacia saligna*	2*360	600	Unstable	Env. Pest Species - Exempt from Council's DCP	6.1	117.3	4.3	2.7	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
86	*Allocasuarina torulosa*	220	300	2	Moderate L/scape Sig.	2.6	21.9	1.8	2	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
87	*Angophora floribunda*	400	460	3	Moderate L/scape Sig.	4.8	72.4	3.4	2.4	The proposed building footprint is within 5.1m (north) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
88	*Allocasuarina torulosa*	320	420	2	Moderate L/scape Sig.	3.8	46.3	2.7	2.3	The proposed building footprint is within 6.4m (north) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
89	*Eucalyptus paniculata*	800	850	Unstable	Moderate L/scape Sig.	9.6	289.6	6.7	3.1	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
90	*Eucalyptus paniculata*	500	650	1	High L/scape Sig.	6	113.1	4.2	2.8	The proposed building footprint is within 1.7m (north) of the tree.	Excavation is likely to involve severance of significant tree roots resulting in the decline of the tree and/or rendering it unstable.	To be Removed	On site
90.1	*Syncarpia glomulifera*	400	480	3	Moderate L/scape Sig.	4.8	72.4	3.4	2.4	The proposed building footprint is within 3.5m (north) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
90.2	*Syncarpia glomulifera*	220	300	1	Moderate L/scape Sig.	2.6	21.9	1.8	2	The proposed building footprint is within 6.1m (north) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
90.3	*Eucalyptus paniculata*	240	340	1	Moderate L/scape Sig.	2.9	26.1	2	2.1	The proposed building footprint is within 8.2m (north) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
91	*Syncarpia glomulifera*	260	380	2	Low L/scape Sig.	3.1	30.6	2.2	2.2	The proposed building footprint is within 5.7m (north) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
92	*Syncarpia glomulifera*	220	300	4	Low L/scape Sig.	2.6	21.9	1.8	2	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
94	*Angophora floribunda*	400	580	3	High L/scape Sig.	4.8	72.4	3.4	2.6	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
95	*Livistona australis*	400	600	1	Low L/scape Sig.	2.6	21.2	1.8	1.8	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of
melanie howden	nts	30/06/14	aiasi 2.01	0.1	20	26

project
arboricultural impact assessment - waterbrook bayview, cabbage tree rd

drawing title
impact of proposed road works on individual trees

Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
96	*Ceratopetalum apetalum*	220	300	1	Moderate L/scape Sig.	2.6	21.9	1.8	2	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
97	*Ceratopetalum apetalum*	200	300	1	Moderate L/scape Sig.	2.4	18.1	1.7	2	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
98	*Syncarpia glomulifera*	300	400	1	Moderate L/scape Sig.	3.6	40.7	2.5	2.3	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
99	*Ceratopetalum apetalum*	2*80, 1*340	440	1	Moderate L/scape Sig.	4.3	58.1	3	2.3	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
100	*Livistona australis*	300	460	1	Moderate L/scape Sig.	2.4	18.1	1.7	1.7	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
100.1	*Angophora floribunda*	250	3600	1	Moderate L/scape Sig.	3	28.3	2.1	5.7	The proposed building footprint is within 6.5m (north) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
101	*Allocasuarina torulosa*	500	650	1	High L/scape Sig.	6	113.1	4.2	2.8	The proposed building footprint is within 9.7m (north) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
102	*Ceratopetalum apetalum*	220	320	1	Moderate L/scape Sig.	2.6	21.9	1.8	2.1	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
103	*Allocasuarina torulosa*	280	500	2	Moderate L/scape Sig.	3.4	35.5	2.4	2.5	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
104	*Allocasuarina torulosa*	320	500	2	Moderate L/scape Sig.	3.8	46.3	2.7	2.5	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
106	*Angophora floribunda*	240	340	1	Moderate L/scape Sig.	2.9	26.1	2	2.1	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
107	*Eucalyptus paniculata*	800	1000	1	Very High L/scape Sig.	9.6	289.6	6.7	3.3	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
108	*Allocasuarina torulosa*	300	400	3	Moderate L/scape Sig.	3.6	40.7	2.5	2.3	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
108.1	*Allocasuarina torulosa*	500	700	2	High L/scape Sig.	6	113.1	4.2	2.8	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
109	*Eucalyptus paniculata*	180	250	1	Moderate L/scape Sig.	2.2	14.7	1.5	1.8	The proposed building footprint is within 4.8m (north east) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site

Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
110	*Syncarpia glomulifera*	500	550	1	High L/scape Sig.	6	113.1	4.2	2.6	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
111	*Angophora floribunda*	400	450	3	Moderate L/scape Sig.	4.8	72.4	3.4	2.4	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
112	*Angophora floribunda*	1*450, 1*250	650	3	High L/scape Sig.	6.2	119.9	4.3	2.8	The proposed building footprint is within 6.1m (north east) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
113	*Angophora floribunda*	250	300	2	Moderate L/scape Sig.	3	28.3	2.1	2	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
114	*Angophora floribunda*	180	300	3	Moderate L/scape Sig.	2.2	14.7	1.5	2	The proposed basement car park is within 6.9m (north west) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
115	*Glochidion ferdinandi*	1*230, 1*60	300	2	Low L/scape Sig.	2.9	25.6	2	2	The proposed basement car park is within 7.5m (north west) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
116	*Syncarpia glomulifera*	500	700	1	High L/scape Sig.	6	113.1	4.2	2.8	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
116.1	*Livistona australis*	300	500	1	Moderate L/scape Sig.	2	12.6	1.4	1.4	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
117	*Angophora floribunda*	300	360	1	Low L/scape Sig.	3.6	40.7	2.5	2.2	The proposed building footprint is within 1.6m (north) of the tree.	Excavation is likely to involve severance of significant tree roots resulting in the decline of the tree and/or rendering it unstable.	To be Removed	On site
118	*Eucalyptus paniculata*	900	1100	1	Very High L/scape Sig.	10.8	366.6	7.6	3.4	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
119	*Angophora floribunda*	350	400	3	Moderate L/scape Sig.	4.2	55.4	2.9	2.3	The proposed building footprint is within 5.4m (north west) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
120	*Eucalyptus robusta*	350	500	1	Moderate L/scape Sig.	4.2	55.4	2.9	2.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
121	*Eucalyptus paniculata*	600	700	1	High L/scape Sig.	7.2	162.9	5	2.8	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
122	*Eucalyptus paniculata*	800	850	3	High L/scape Sig.	9.6	289.6	6.7	3.1	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of
melanie howden	nts	30/06/14	aiasi 2.01	0.1	21	26

project
arboricultural impact assessment - waterbrook bayview, cabbage tree rd

drawing title
impact of proposed road works on individual trees

Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
123	*Eucalyptus paniculata*	850	900	2	Very High L/scape Sig.	10.2	327	7.1	3.2	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
124	*Angophora floribunda*	300	320	2	Moderate L/scape Sig.	3.6	40.7	2.5	2.1	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
125	*Angophora floribunda*	1*500, 1*600	1200	3	High L/scape Sig.	9.4	276.1	6.6	3.6	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
126	*Angophora floribunda*	600	800	4	High L/scape Sig.	7.2	162.9	5	3	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
127	*Pinus radiata*	400	600	1	Moderate L/scape Sig.	4.8	72.4	3.4	2.7	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
128	*Pinus radiata*	650	850	1	High L/scape Sig.	7.8	191.2	5.5	3.1	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
129	*Angophora floribunda*	280	380	4	Moderate L/scape Sig.	3.4	35.5	2.4	2.2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
130	*Glochidion ferdinandi*	2*200	400	2	Moderate L/scape Sig.	3.4	36.2	2.4	2.3	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
130.1	*Angophora floribunda*	360	300	4	Moderate L/scape Sig.	4.3	58.7	3	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
131	*Angophora floribunda*	350	400	2	Moderate L/scape Sig.	4.2	55.4	2.9	2.3	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
132	*Eucalyptus paniculata*	1*240, 1*400	8550	1	Moderate L/scape Sig.	5.4	90.5	3.8	8.2	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
133	*Casuarina glauca*	300	550	2	Moderate L/scape Sig.	3.6	40.7	2.5	2.6	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
134	*Casuarina glauca*	300	500	2	Moderate L/scape Sig.	3.6	40.7	2.5	2.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
135	*Casuarina glauca*	160	340	2	Low L/scape Sig.	2	12.6	1.4	2.1	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
136	*Casuarina glauca*	300	600	2	Moderate L/scape Sig.	3.6	40.7	2.5	2.7	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
137	*Casuarina glauca*	130	200	1	Low L/scape Sig.	2	12.6	1.4	1.7	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
138	*Casuarina glauca*	250	400	1	Moderate L/scape Sig.	3	28.3	2.1	2.3	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
139	*Casuarina glauca*	150	300	1	Low L/scape Sig.	2	12.6	1.4	2	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
140	*Allocasuarina torulosa*	300	400	2	Moderate L/scape Sig.	3.6	40.7	2.5	2.3	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
141	*Allocasuarina torulosa*	600	680	Unstable	Moderate L/scape Sig.	7.2	162.9	5	2.8	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
142	*Angophora floribunda*	700	800	2	High L/scape Sig.	8.4	221.8	5.9	3	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
143	*Angophora floribunda*	250	300	2	Low L/scape Sig.	3	28.3	2.1	2	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
144	*Angophora floribunda*	300	480	4	Moderate L/scape Sig.	3.6	40.7	2.5	2.4	The proposed basement car park is within 0.6m (south west) of the tree.	Excavation is likely to involve severance of significant tree roots resulting in the decline of the tree and/or rendering it unstable.	To be Removed	On site
145	*Angophora floribunda*	850	1200	2	High L/scape Sig.	10.2	327	7.1	3.6	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
146	*Eucalyptus paniculata*	600	700	2	High L/scape Sig.	7.2	162.9	5	2.8	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
147	*Angophora floribunda*	480	520	3	High L/scape Sig.	5.8	104.3	4	2.5	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
147.1	*Allocasuarina torulosa*	200.	260	2	Low L/scape Sig.	2.4	18.1	1.7	1.9	The proposed basement car park is within 0.4m (south) of the tree.	Excavation is likely to involve severance of significant tree roots resulting in the decline of the tree and/or rendering it unstable.	To be Removed	On site
148	*Angophora floribunda*	750	900	3	High L/scape Sig.	9	254.6	6.3	3.2	The proposed basement car park is within 2.2m (south west) of the tree.	Excavation is likely to involve severance of significant tree roots resulting in the decline of the tree and/or rendering it unstable.	To be Removed	On site

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of
melanie howden	nts	30/06/14	aiasi 2.01	0.1	22	26

project
arboricultural impact assessment - waterbrook bayview, cabbage tree rd

drawing title
impact of proposed road works on individual trees

Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
149	*Angophora floribunda*	400	550	2	High L/scape Sig.	4.8	72.4	3.4	2.6	The proposed basement car park is within 0.9m (south west) of the tree.	Excavation is likely to involve severance of significant tree roots resulting in the decline of the tree and/or rendering it unstable.	To be Removed	On site
150	*Pinus radiata*	550	900	2	Moderate L/scape Sig.	6.6	136.9	4.6	3.2	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
151	*Angophora floribunda*	500	700	4	Moderate L/scape Sig.	6	113.1	4.2	2.8	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
151.1	*Angophora floribunda*	240	350	4	Moderate L/scape Sig.	2.9	26.1	2	2.1	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
152	*Eucalyptus paniculata*	600	750	1	Very High L/scape Sig.	7.2	162.9	5	2.9	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
153	*Eucalyptus paniculata*	800	950	1	Very High L/scape Sig.	9.6	289.6	6.7	3.2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
154	*Angophora floribunda*	800	950	2	High L/scape Sig.	9.6	289.6	6.7	3.2	The proposed building footprint is within 1.6m (south west) of the tree.	Excavation is likely to involve severance of significant tree roots resulting in the decline of the tree and/or rendering it unstable.	To be Removed	On site
155	*Eucalyptus paniculata*	1100	1300	1	Very High L/scape Sig.	13.2	547.6	9.2	3.7	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
156	*Pinus radiata*	500	780	Unstable	Low L/scape Sig.	3	28.3	3	3	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
157	*Angophora floribunda*	2*500	800	4	Moderate L/scape Sig.	8.5	226.3	5.9	3	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
158	*Eucalyptus scias*	1*300, 1*1000	1400	1	Very High L/scape Sig.	12.5	493.3	8.8	3.8	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
159	*Pinus radiata*	180	320	1	Low L/scape Sig.	2.2	14.7	1.5	2.1	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
160	*Angophora floribunda*	500	750	3	Moderate L/scape Sig.	6	113.1	4.2	2.9	The proposed building footprint is within 3.5m (south east) of the tree.	Excavation is likely to involve severance of significant tree roots resulting in the decline of the tree and/or rendering it unstable.	To be Removed	On site

Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
161	*Eucalyptus paniculata*	700	800	1	Very High L/scape Sig.	8.4	221.8	5.9	3	The proposed building footprint is within 7.8m (south east) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
162	*Angophora floribunda*	600	700	3	Moderate L/scape Sig.	7.2	162.9	5	2.8	The proposed building footprint is within 4.6m (south east) of the tree.	Excavation is likely to involve severance of significant tree roots resulting in the decline of the tree and/or rendering it unstable.	To be Removed	On site
163	*Angophora floribunda*	1*1000, 1*700	1600	3	Very High L/scape Sig.	14.6	674.3	10.3	4	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
164	*Angophora floribunda*	1*500, 1*550, 1*650	950	4	High L/scape Sig.	11.8	441.3	8.3	3.2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
165	*Pinus radiata*	600	750	2	High L/scape Sig.	7.2	162.9	5	2.9	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
166	*Angophora floribunda*	1*600, 1*400	1000	3	High L/scape Sig.	8.7	235.3	6.1	3.3	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
167	*Eucalyptus paniculata*	700	850	1	Very High L/scape Sig.	8.4	221.8	5.9	3.1	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
168	*Syncarpia glomulifera*	400	500	1	High L/scape Sig.	4.8	72.4	3.4	2.5	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
169	*Syncarpia glomulifera*	240	300	1	Moderate L/scape Sig.	2.9	26.1	2	2	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
170	*Angophora floribunda*	1*160, 1*250	500	Unstable	Low L/scape Sig.	3.6	39.9	2.5	2.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
171	*Eucalyptus paniculata*	800	950	1	Very High L/scape Sig.	9.6	289.6	6.7	3.2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
172	*Pinus radiata*	660	980	1	High L/scape Sig.	7.9	197.1	5.5	3.3	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On adjacent allotment
173	*Eucalyptus paniculata*	200	280	1	Moderate L/scape Sig.	2.4	18.1	1.7	1.9	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On adjacent allotment
174	*Eucalyptus scias*	250	350	1	Moderate L/scape Sig.	3	28.3	2.1	2.1	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On adjacent allotment

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of
melanie howden	**nts**	**30/06/14**	**aiasi 2.01**	**0.1**	**23**	**26**

project
arboricultural impact assessment - waterbrook bayview, cabbage tree rd

drawing title
impact of proposed road works on individual trees

Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
175	*Syncarpia glomulifera*	2*200	340	2	Moderate L/scape Sig.	3.4	36.2	2.4	2.1	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
176	*Eucalyptus paniculata*	800	880	2	Very High L/scape Sig.	9.6	289.6	6.7	3.1	The proposed building footprint is within 12.2m (north) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	Within road reserve
177	*Syncarpia glomulifera*	180	220	3	Low L/scape Sig.	2.2	14.7	1.5	1.8	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
178	*Angophora floribunda*	180	220	2	Low L/scape Sig.	2.2	14.7	1.5	1.8	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
179	*Angophora floribunda*	1*360, 1*200	400	2	Low L/scape Sig.	4.9	76.8	3.5	2.3	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
180	*Angophora floribunda*	550	700	3	High L/scape Sig.	6.6	136.9	4.6	2.8	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
181	*Syncarpia glomulifera*	350	420	1	Moderate L/scape Sig.	4.2	55.4	2.9	2.3	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
182	*Casuarina glauca*	400	650	2	Moderate L/scape Sig.	4.8	72.4	3.4	2.8	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
183	*Casuarina glauca*	380	750	2	Moderate L/scape Sig.	4.6	65.4	3.2	2.9	The proposed basement car park is within 4.4m (east) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
184	*Eucalyptus robusta*	250	400	1	Moderate L/scape Sig.	3	28.3	2.1	2.3	The proposed basement car park is within 5.3m (east) of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
185	*Pinus radiata*	650	800	1	High L/scape Sig.	7.8	191.2	5.5	3	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
186	*Livistona australis*	350	550	1	Moderate L/scape Sig.	1.8	10.2	1.3	1.3	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
187	*Syncarpia glomulifera*	450	600	1	Moderate L/scape Sig.	5.4	91.6	3.8	2.7	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
188	*Eucalyptus paniculata*	800	1000	3	Very High L/scape Sig.	9.6	289.6	6.7	3.3	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
189.19	*Syncarpia glomulifera*	280	380	1	High L/scape Sig.	3.4	35.5	2.4	2.2	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment

Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
194	*Syncarpia glomulifera*	220	280	1	Moderate L/scape Sig.	2.6	21.9	1.8	1.9	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
195	*Pinus radiata*	220	250	1	Moderate L/scape Sig.	2.6	21.9	1.8	1.8	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
195.1	*Acacia saligna*	2*200	400	Unstable	Env. Pest Species - Exempt from Council's DCP	3.4	36.2	2.4	2.3	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
196	*Syncarpia glomulifera*	500	600	1	High L/scape Sig.	6	113.1	4.2	2.7	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
197	*Glochidion ferdinandi*	1*160, 1*100, 1*300	380	2	Moderate L/scape Sig.	4.3	56.8	3	2.2	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
198	*Glochidion ferdinandi*	1*160, 1*200, 1*240	500	1	Moderate L/scape Sig.	4.2	55.8	2.9	2.5	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
199	*Syncarpia glomulifera*	300	500	1	Moderate L/scape Sig.	3.6	40.7	2.5	2.5	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
200	*Angophora floribunda*	270	320	1	Moderate L/scape Sig.	3.2	33	2.3	2.1	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
201	*Glochidion ferdinandi*	200	300	2	Moderate L/scape Sig.	2.4	18.1	1.7	2	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
202	*Alphitonia excelsa*	400	500	1	Moderate L/scape Sig.	4.8	72.4	3.4	2.5	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
203	*Angophora floribunda*	550	700	3	High L/scape Sig.	6.6	136.9	4.6	2.8	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
204	*Angophora floribunda*	220	280	1	Moderate L/scape Sig.	2.6	21.9	1.8	1.9	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On adjacent allotment
217	*Eucalyptus paniculata*	800	900	1	Very High L/scape Sig.	9.6	289.6	6.7	3.2	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
218	*Eucalyptus paniculata*	800	1000	1	Very High L/scape Sig.	9.6	289.6	6.7	3.3	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
219	*Eucalyptus paniculata*	800	1150	1	Very High L/scape Sig.	9.6	289.6	6.7	3.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of
melanie howden	nts	30/06/14	aiasi 2.01	0.1	24	26

project
arboricultural impact assessment - waterbrook bayview, cabbage tree rd

drawing title
impact of proposed road works on individual trees

Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
220	*Eucalyptus paniculata*	900	1300	1	Very High L/scape Sig.	10.8	366.6	7.6	3.7	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
221	*Eucalyptus paniculata*	700	900	1	High L/scape Sig.	8.4	221.8	5.9	3.2	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
223	*Eucalyptus scias*	650	900	1	High L/scape Sig.	7.8	191.2	5.5	3.2	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
224	*Eucalyptus paniculata*	1*450, 1*900	1*650, 1*1100	1	Very High L/scape Sig.	12.1	458.2	8.5	4.2	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
225	*Eucalyptus paniculata*	500	800	1	High L/scape Sig.	6	113.1	4.2	3	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
226	*Allocasuarina torulosa*	500	900	3	Moderate L/scape Sig.	6	113.1	4.2	3.2	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
227	*Pinus radiata*	700	1000	2	Moderate L/scape Sig.	8.4	221.8	5.9	3.3	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
228	*Angophora floribunda*	450	550	2	Moderate L/scape Sig.	5.4	91.6	3.8	2.6	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
229	*Angophora floribunda*	450	550	2	High L/scape Sig.	5.4	91.6	3.8	2.6	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
230	*Eucalyptus paniculata*	800	900	Unstable	Very High L/scape Sig.	9.6	289.6	6.7	3.2	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
231	*Angophora floribunda*	1*250, 1*220	500	4	Moderate L/scape Sig.	4	50.2	2.8	2.5	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
232	*Angophora floribunda*	350	400	4	Moderate L/scape Sig.	4.2	55.4	2.9	2.3	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
233	*Angophora floribunda*	2*350	750	3	Moderate L/scape Sig.	5.9	110.9	4.2	2.9	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
234	*Pinus radiata*	350	500	Unstable	Moderate L/scape Sig.	2.5	19.6	2.5	2.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
235	*Eucalyptus paniculata*	600	700	4	High L/scape Sig.	7.2	162.9	5	2.8	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site

Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ area (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / Off Proposed Allotment
236.7	*Eucalyptus paniculata*	1*450, 1*950	1*650, 1*2000	1	Very High L/scape Sig.	12.6	500.1	8.8	5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
238	*Pinus radiata*	400	550	Unstable	Low L/scape Sig.	2.6	21.2	2.6	2.6	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
239	*Lophostemon confertus*	140	700	1	Moderate L/scape Sig.	2	12.6	1.4	2.8	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
240	*Eucalyptus botryoides*	1*180, 1*100	280	1	Low L/scape Sig.	2.5	19.2	1.7	1.9	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
240.1	*Corymbia maculata*	280	350	2	Low L/scape Sig.	3.4	35.5	2.4	2.1	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
241	*Ficus microcarpa var. hillii*	1*200, 1*320, 1*250	500	1	Env. Pest Species - Exempt from Council's DCP	5.4	92.7	3.8	2.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
242	*Lophostemon confertus*	650	900	1	Moderate L/scape Sig.	7.8	191.2	5.5	3.2	The proposed basement car park spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
243	*Lophostemon confertus*	750	900	1	Moderate L/scape Sig.	9	254.6	6.3	3.2	The proposed basement car park is within 3.9 (south) of the tree.	Excavation is likely to involve severance of significant tree roots resulting in the decline of the tree and/or rendering it unstable.	To be Removed	On site

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of
melanie howden	nts	30/06/14	aiasi 2.01	0.1	25	26

project
arboricultural impact assessment - waterbrook bayview, cabbage tree rd

drawing title
impact of proposed road works on individual trees

tree protection measures

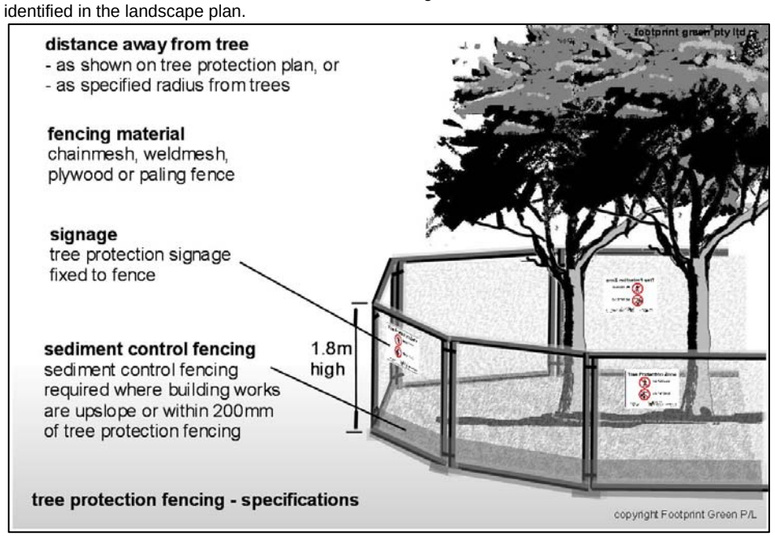
general tree protection measures during construction

Prior to demolition or construction, the trees identified as being removed shall be removed ensuring that no damage occurs to the root system, trunk, branches or foliage of trees identified as being retained.

Tree Protection Fencing

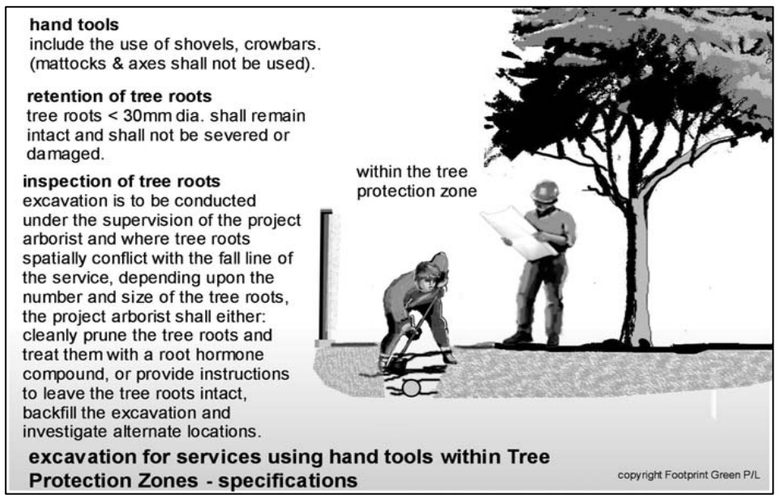
Prior to demolition or construction, secure protective fencing is to be erected around individual trees or groups of trees identified as being retained and should be located no closer than the Tree Protection Zones (refer TPZ sheets 18-24).

All access within the tree protection fencing for temporary and permanent works must be carried out under the instructions of an experienced and qualified project arborist. Tree Protection Fencing shall remain in functional condition for the duration of building works and can be removed to allow for works identified in the landscape plan.



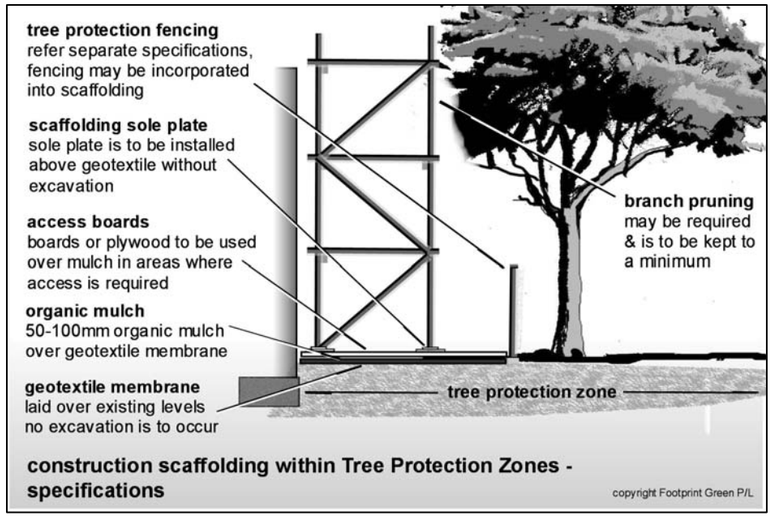
Installation of Services

Specific excavation for services that require critical fall (eg. sewer, stormwater) or are required to be within a defined easement may be undertaken within the tree protection zones only under the direct supervision of the project arborist.



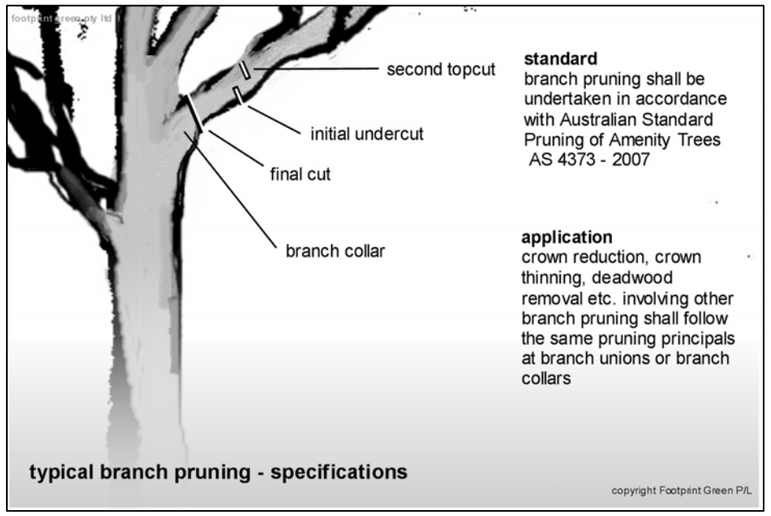
Construction Scaffolding within Tree protection Zones

Should construction scaffolding be required to be erected within the Tree Protection Zones of trees identified as being retained, it must be erected under the supervision of a qualified and experienced project arborist and in accordance with the specifications below.



Pruning

Should branch pruning be required, all pruning works including the removal of deadwood are to be undertaken in accordance with Australian Standard AS 4373-2007 Pruning of Amenity Trees and the work is to be undertaken by an experienced and qualified arborist.



Landscape Design

Outside the construction area, landscape design in the vicinity of the trees must be sympathetic to tree retention and existing ground levels within the Tree Protection Zones (refer TPZ sheets 17-25) must retain 90% of the area of the Tree Protection Zone and 100% of the area of the Structural Root Zone.

tree report summary

conclusion

This report has been prepared to assess the condition and significance of a number of trees within and adjacent the proposed allotment on Bayview Golf Course, Bayview and assess the potential impact of the proposed Senior Living Facility on the identified trees. This report has been prepared to accompany an application for a Site Compatibility Certificate made to the NSW Department Planning & Environment.

The assessments carried out in this report are based upon the Australian Standard 4970 - 2009, Protection of Trees on Development Sites. The terminology used in this report is also consistent with that used in the AS 4970-2009.

The report has been commissioned by Bayview Waterbrook and site instructions have been provided by Planix Projects. Site inspections and field work were undertaken between the 9th & 16th May 2014.

The subject site has an area of approximately 2ha and is located in the north western annex of Bayview Golf Course on the northern side of Cabbage Tree Road, at Bayview. The vegetation on the site is typical of many golf courses consisting of open mown grass fairways, greens & tees with canopy trees lining the fairways. A narrow band of denser vegetation occurs on the steeper land and along the Cabbage Tree Road frontage. The majority of the trees are indigenous species with some exotic and non-indigenous tree plants.

The proposed development involves subdivision of part of the golf course and construction of a seniors living facility with a basement level car park (Marchese Partners, 2014). Whilst there are several thousand trees on the golf course, **234** trees on or adjacent the proposed allotment have been considered in this report. Of these **234** trees:

- **98** trees are proposed to be retained, and;
- **136** trees to be removed

Details of the 98 Trees to be Retained (number of trees)						
Condition	Environmental / Landscape Significance					
	Noxious	Env. Pest (Exempt from DCP)	Low L/scape Sig.	Moderate L/scape Sig.	High L/scape Sig.	Very High L/scape Sig.
SULE - 1			5	30	11	2
SULE - 2			7	13	2	1
SULE - 3			2	9	6	2
SULE - 4			3	2	2	
Unstable			1			

Details of the 136 Trees to be Removed (number of trees)						
Condition	Environmental / Landscape Significance					
	Noxious	Env. Pest (Exempt from DCP)	Low L/scape Sig.	Moderate L/scape Sig.	High L/scape Sig.	Very High L/scape Sig.
SULE - 1	2	1	6	17	18	16
SULE - 2	1		7	20	7	1
SULE - 3			1	7	6	1
SULE - 4				9	4	
Unstable		2	5	3	1	1

Provided that the designed protection measures (refer opposite this sheet) are implemented and works are undertaken in a sensitive manner, it is considered that the trees identified for retention can be satisfactorily retained.

draft

Footprint Green Pty Ltd
Arboricultural, Environmental & Horticultural Consultants
5 Watkins Road, Avalon Beach, NSW 2107
Email: mail@footprintgreen.com.au
Ph: (02) 99188877
Fax: (02) 99188876
ABN 34 097 138 817

prepared by	scale at A3	date	dwg no.	rev.	sheet	of
melanie howden	nts	30/06/14	aiacp 2.01	0.1	26	26

project
arboricultural impact assessment - waterbrook bayview, cabbage tree rd

drawing title
tree protection measured & report summary