



arboricultural impact assessment 62 hillside road, newport

22nd June 2016

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Executive Summary

This report has been prepared to assess the condition and significance of a number of trees on and adjacent the allotments known as 62 Hillside Road, Newport and assess the potential impact of the proposed development on the identified trees.

The report has been commissioned by Cariste Pty Ltd and site instructions have been provided by Martens & Associates Pty Ltd. Subsequent site inspections and field work were conducted between the 04/04/16 and 05/04/16. For the purposes of this report the properties known as 62 Hillside Road, Newport will be referred to as the site.

The terminology in this report and development impact assessments are based upon the Australian Standard, Protection of Trees on Development Sites AS 4970-2009 and the definition of a tree in this report is consistent with Pittwater Council's definition of a tree, as per Pittwater DCP 21 Control B4.22 being "any tree or shrub whether endemic, exotic or introduced species with a height exceeding three 3 meters, or trunk exceeding 0.5m, or a canopy width spread exceeding 5m".

The allotment known as 62 Hillside Road contains a dilapidated timber framed dwelling and a detached shed. The vegetation surrounding the dilapidated dwelling has been disturbed whilst the remainder of the allotment contains indigenous vegetation.

The proposed subdivision involves creating 4 allotments within 62 Hillside Road, the creation of bushfire Asset Protection Zones around the proposed building footprints, and construction of an access road with a vehicle turning "Y".

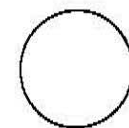
Whilst there are several hundred trees on the site, **111** trees that are within close proximity to the proposed subdivision works or are within the proposed building footprints or are within the proposed bushfire Asset Protection Zone have been considered in this report. Of the 111 trees considered in this report, **105** trees are located on the site and 6 trees are located on the adjoining allotment.

Of the **105** trees considered on the site:

- **48** trees are to be retained in proximity to proposed works, and
- **57** trees are proposed to be removed

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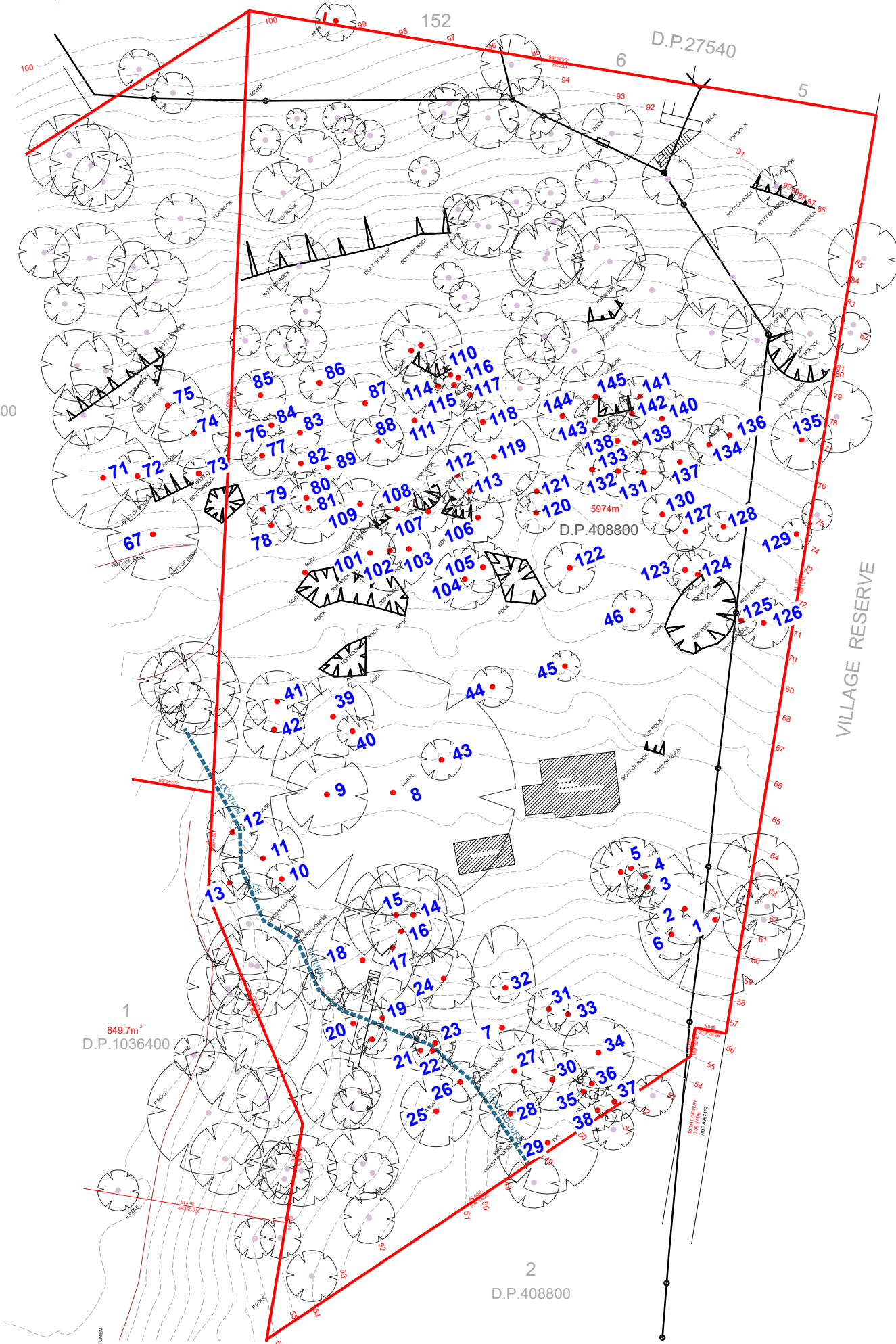
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drawing title

cover sheet



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tree legend

-  trees considered in this report
-  trees beyond proposed works areas & APZ

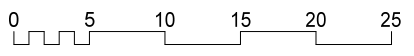
legend

-  rock outcrops
-  drainage depression

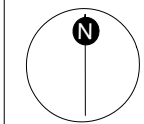
This plan is based upon:

Details & Levels Over Lot 1 in DP 408800 & Lot 2 in DP 1036400, 62 & 85 Hillside Road Newport, Dated 05/04/02, Ref 9499F (Paul Keen & Company Newport, NSW)

Details & Levels Over Part of Lot 1 in DP408800 & Lot 2 in DP 1036400, 62 - 85 Hillside Road, Newport, Ref No. 9499P, Dated 30/10/15, (Paul Keen & Company, Avalon, NSW)




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project
arboricultural impact assessment
- 62 hillside road, newport

drawing title
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'.

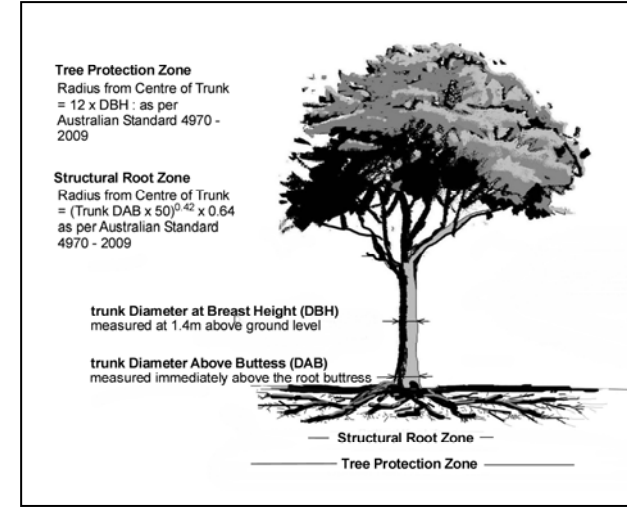
Unstable	Unstable in the ground or have significant trunk damage rendering them structurally hazardous.
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development planning & general impacts on trees

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 than 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.

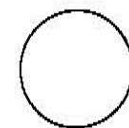
Where major encroachments are proposed to occur into the Tree Protection Zone the tree's Structural Root Zone should also be taken into account.

developments within the tree's Structural Root Zone

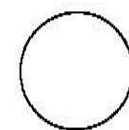
The Structural Root Zone is the area surrounding the tree where the severance of roots and excavation is likely to affect the structural stability of the tree and is likely to have a significant detrimental impact on the health & condition of the tree. Based upon AS 4970 – 2009 the radius of a tree's 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.

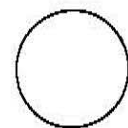
Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On / off site	TPZ Radius (m)	Area of TPZ (m2)
1	<i>Erythrina sykesii indica</i>	Coral Tree	15	15	1*600, 1*800	1200	Mature twin trunk tree with a broad spreading form; 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 displays some signs of instability and its branch attachment appears fair. The tree is considered to be in moderate health and displays good vigour.	Good	10%	The tree has a basal bark inclusion in the main junction, trunk cavities and there is evidence of previous limb failures.	4	On site	12.00	452.57
2	<i>Acmena smithii</i>	Lilly Pilly	10	7	1*200, 180	300	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	1	On site	3.23	32.77
3	<i>Pittosporum undulatum</i>	Sweet Pittosporum	9	6	200.	260	Mature single trunk tree with an upright elliptical form; a slight trunk lean to the south west 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	2	On site	2.40	18.10
4	<i>Pittosporum undulatum</i>	Sweet Pittosporum	9	4	200.	260	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 stability is suspect and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Good	20%	The tree appears to be suppressed by the adjacent vegetation and the lower branches are dead. Decay is evident in the main junction.	4	On site	2.40	18.10
5	<i>Erythrina sykesii indica</i>	Coral Tree	14	12	1*300, 2*260, 1*150	1000	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.	Env. Pest Species - Exempt from Council's DCP	The tree displays some signs of instability and its branch attachment appears fair. The tree is considered to be in moderate health and displays good vigour.	Good	5%	The basal area of the trunk shows evidence of instability with bark inclusions present.	2	On site	5.97	112.10



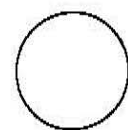
Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On / off site	TPZ Radius (m)	Area of TPZ (m2)
6	<i>Pittosporum undulatum</i>	Sweet Pittosporum	9	5	200	240	Mature single trunk tree with an upright spreading form; a slight trunk lean to the south west 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%	None evident	2	On site	2.40	18.10
7	<i>Syncarpia glomulifera</i>	Turpentine	11	14	560	680	Mature twin trunk tree that has failed and has an uplifted root plate.	Moderate L/scape Sig.	The tree is lying on the ground and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	10%	The tree has failed at the root plate and is lying on the embankment but remains alive.	4	On site	6.72	141.93
8	<i>Erythrina sykesii indica</i>	Coral Tree	20	20	1*620, 1*640, 1*340, 1*410	2100	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.	Env. Pest Species - Exempt from Council's DCP	The tree displays some signs of instability and its branch attachment appears fair. The tree is considered to be in moderate health and displays good vigour.	Good	10%	The tree has a basal bark inclusion and there is evidence of previous limb failures. Coral tree rust is evident on the foliage.	3	On site	12.46	487.74
9	<i>Glochidion ferdinandi</i>	Cheese Tree	14	8	380	430	Mature single trunk tree with an upright elliptical form; a slight trunk lean to the west and majority of canopy and branch development is towards the 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%	Some epicormic growth on the lower limbs.	1	On site	4.56	65.35
10	<i>Livistona australis</i>	Cabbage Palm	12	5	310	390	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%	The tree has Convolvulus growing on the trunk to 5m.	1	On site	1.90	11.35
11	<i>Pittosporum undulatum</i>	Sweet Pittosporum	14	6	480	530	Mature twin trunk (at 3m) 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 fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	30%	The tree has a bark inclusion at 3m and a sparse open canopy.	3	On site	5.76	104.27
12	<i>Livistona australis</i>	Cabbage Palm	14	6	290	320	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.	Good	<5%	None evident	1	On site	2.00	12.57
13	<i>Livistona australis</i>	Cabbage Palm	12	5	370	410	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.	Good	<5%	None evident	1	On site	1.90	11.35
14	<i>Erythrina sykesii indica</i>	Coral Tree	14	12	1*180, 1*670	760	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.	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	10%	The tree has a basal bark inclusion and an inclusion at 1.6m. There is evidence of previous limb failures.	2	On site	8.33	217.82
15	<i>Erythrina sykesii indica</i>	Coral Tree	15	14	2*480, 1*500	1100	Mature twin 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.	Env. Pest Species - Exempt from Council's DCP	The tree displays some signs of instability and its branch attachment appears poor. The tree is considered to be in moderate health and displays good vigour.	Good	5%	The eastern trunk has a wound through the tree from ground level to 2m. There is evidence of previous limb failures.	2	On site	10.12	321.69
16	<i>Erythrina sykesii indica</i>	Coral Tree	14	8	450	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%	None evident	2	On site	5.40	91.65
17	<i>Erythrina sykesii indica</i>	Coral Tree	18	17	1*340, 1*200, 1*330, 1*400, 1*390, 1*310	1700	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.	Env. Pest Species - Exempt from Council's DCP	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 basal bark inclusion and there is evidence of previous limb failures.	2	On site	9.55	286.34
18	<i>Acmena smithii</i>	Lilly Pilly	11	10	210	280	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%	The tree appears to be suppressed by the adjacent vegetation	2	On site	2.52	19.96
19	<i>Livistona australis</i>	Cabbage Palm	13	4	260	420	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.	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	15%	None evident	3	On site	2.10	13.86
20	<i>Acmena smithii</i>	Lilly Pilly	10	7	300	400	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.	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 appears to be suppressed by the adjacent vegetation and epicormic growth is present in the lower and upper canopy. The southern trunk is in good condition and the northern trunk is poor.	2	On site	3.60	40.73
21	<i>Livistona australis</i>	Cabbage Palm	15	6	220	300	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.	Good	5%	None evident	1	On site	2.10	13.86
22	<i>Livistona australis</i>	Cabbage Palm	13	5	240	340	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	1.90	11.35
23	<i>Livistona australis</i>	Cabbage Palm	14	5	220	300	Mature single trunk tree with an elevated rounded 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 good health and displays good vigour.	Good	<5%	None evident	1	On site	2.00	12.57
24	<i>Syncarpia glomulifera</i>	Turpentine	12	8	300	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%	The tree appears to be suppressed by the adjacent vegetation and has minor amounts of epicormic growth.	1	On site	3.60	40.73
25	<i>Casuarina glauca</i>	Swamp Oak	11	8	200	280	Mature twin 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 moderate health and displays fair vigour.	Fair	15%	None evident	2	On site	2.40	18.10
26	<i>Livistona australis</i>	Cabbage Palm	11	6	220	320	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	1.70	9.08
27	<i>Acmena smithii</i>	Lilly Pilly	12	11	1*180, 1*300	460	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.	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 has an open sparse canopy with 1 lower dead trunk on the southern side.	2	On site	4.20	55.39
28	<i>Acmena sp.</i>	Lilly Pilly	9	0	1*180, 1*200	260	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.	Unstable	On site	3.23	32.77



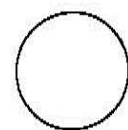
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29	<i>Ficus rubiginosa</i>	Port Jackson Fig/Rusty Fig	15	17	500	600	Mature twin trunk tree with a broad spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The 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	6.00	113.14
30	<i>Strelitzia sp.</i>	Bird of Paradise	9	4	200	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.	Env. Pest Species - Exempt from Council's DCP	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	1.40	6.16
31	<i>Livistona australis</i>	Cabbage Palm	13	5	320	420	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. A constructed nest box is attached to the tree at 2m on the northern side.	2	On site	2.10	13.86
32	<i>Pittosporum undulatum</i>	Sweet Pittosporum	6	3	130	210	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	2	On site	2.0	12.6
33	<i>Glochidion ferdinandi</i>	Cheese Tree	11	7	300	360	Mature single trunk tree with an upright spreading 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%	None evident	2	On site	3.60	40.73
34	<i>Glochidion ferdinandi</i>	Cheese Tree	9	8	300	400	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.	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%	A constructed nest box is attached to the tree at 2.5m on the northern side.	2	On site	3.60	40.73
35	<i>Pittosporum undulatum</i>	Sweet Pittosporum	12	5	260	300	Mature twin 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	3.12	30.59
36	<i>Acmena smithii</i>	Lilly Pilly	12	4	200	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.	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 the adjacent vegetation.	2	On site	2.40	18.10
37	<i>Livistona australis</i>	Cabbage Palm	13	4	300	400	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	2.00	12.57
38	<i>Livistona australis</i>	Cabbage Palm	13	7	300	400	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.	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%	None evident	1	On site	2.00	12.57
39	<i>Pittosporum undulatum</i>	Sweet Pittosporum	13	7	300	400	Mature single 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 fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	20%	None evident	3	On site	3.60	40.73
40	<i>Acmena smithii</i>	Lilly Pilly	13	5	200	280	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 moderate health and displays fair vigour.	Fair	25%	The tree has a sparse thinning canopy.	3	On site	2.40	18.10
41	<i>Acmena smithii</i>	Lilly Pilly	13	13	3*220, 1*180	550	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 fair. The tree is considered to be in poor health and displays poor vigour.	Fair	40%	The tree has a sparse thinning canopy with deadwood and dieback occurring.	3	On site	5.06	80.38
42	<i>Acmena smithii</i>	Lilly Pilly	13	10	1*280, 2*260, 1*200	560	Mature multi trunk tree with a broad 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	5.18	84.18
43	<i>Livistona australis</i>	Cabbage Palm	3	3	300	400	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.	Excellent	5%	None evident	1	On site	1.00	3.14
44	<i>Livistona australis</i>	Cabbage Palm	3	3	360	420	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.	Very Good	5%	None evident	1	On site	1.00	3.14
45	<i>Livistona australis</i>	Cabbage Palm	12	5	200	310	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.	Good	<5%	None evident	1	On site	1.80	10.18
46	<i>Livistona australis</i>	Cabbage Palm	13	5	380	450	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	2.10	13.86
67	<i>Livistona australis</i>	Cabbage Palm	12	4	300	390	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%	The base of the palm is being undercut by the adjacent watercourse.	1	On adjacent Allotment	1.90	11.35
71	<i>Glochidion ferdinandi</i>	Cheese Tree	12	10	1*200, 1*230	480	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.	Moderate L/scape Sig.	The tree displays some signs of instability and its branch attachment appears poor. The tree is considered to be in moderate health and displays good vigour.	Very Good	10%	The tree has a severe basal bark inclusion.	3	On adjacent Allotment	3.66	42.04
72	<i>Acmena sp.</i>	Lilly Pilly	4	4	2*150, 2*100	260	Dead multi trunk tree with an upright form; an upright trunk/s and balanced branch development. All the leaders have broken off at 4m.	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 adjacent Allotment	2.47	19.23
73	<i>Unidentified species</i>	Unidentified	10	3	120	100	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 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	5%	The tree is senescent with only a small section of the upper canopy remaining alive. The tree was a twin trunk specimen and 1 trunk has failed at 0.3m. Branches have previously failed at 2m.	4	On adjacent Allotment	2.00	12.57
74	<i>Pittosporum undulatum</i>	Sweet Pittosporum	9	5	200	260	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 moderate health and displays fair vigour.	Good	10%	None evident	2	On adjacent Allotment	2.40	18.10
75	<i>Pittosporum undulatum</i>	Sweet Pittosporum	11	6	280	380	Mature single trunk tree with an upright 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	10%	None evident	1	On adjacent Allotment	3.36	35.48



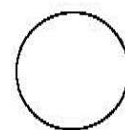
Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On / off site	TPZ Radius (m)	Area of TPZ (m2)
76	<i>Rapanea variabilis</i>	Muttonwood	9	3	180	200	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	2	On site	2.16	14.66
77	<i>Pittosporum undulatum</i>	Sweet Pittosporum	9	4	190	280	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 moderate health and displays fair vigour.	Fair	15%	The tree has a sparse canopy.	3	On site	2.28	16.34
78	<i>Pittosporum undulatum</i>	Sweet Pittosporum	10	4	200	190	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.	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	10%	The tree has a thinning sparse canopy.	2	On site	2.40	18.10
79	<i>Pittosporum undulatum</i>	Sweet Pittosporum	9	3	140	180	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 moderate health and displays fair vigour.	Fair	20%	None evident	2	On site	2.00	12.57
80	<i>Pittosporum undulatum</i>	Sweet Pittosporum	9	3	100	160	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 moderate health and displays fair vigour.	Fair	15%	None evident	2	On site	2.00	12.57
81	<i>Banksia integrifolia</i>	Coastal Banksia	110	0	380	480	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 dead and displays no signs of any vigour.	None	100%	The tree is dead.	Unstable	On site	4.56	65.35
82	<i>Pittosporum undulatum</i>	Sweet Pittosporum	8	3	140	180	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 moderate health and displays fair vigour.	Good	30%	The tree has a sparse thinning canopy.	3	On site	2.00	12.57
83	<i>Pittosporum undulatum</i>	Sweet Pittosporum	9	4	180	210	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 moderate health and displays fair vigour.	Fair	10%	The tree has a sparse thinning canopy.	3	On site	2.16	14.66
84	<i>Rapanea variabilis</i>	Muttonwood	5	2	140	190	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.	Very Good	5%	None evident	1	On site	2.00	12.57
85	<i>Acmena smithii</i>	Lilly Pilly	7	5	2*220, 2*50, 1*90	410	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 stability is suspect and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour.	Poor	80%	The majority of the trunks are dead.	Unstable	On site	3.98	49.74
86	<i>Livistona australis</i>	Cabbage Palm	9	3	220	320	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.	Good	<5%	None evident	1	On site	1.50	7.07
87	<i>Acmena smithii</i>	Lilly Pilly	7	4	1*110, 2*100, 1*50	820	Mature multi trunk tree with an upright spreading form; an upright trunk/s and majority of canopy and branch development is towards the 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.	Very Good	10%	None evident	2	On site	2.23	15.66
88	<i>Acmena smithii</i>	Lilly Pilly	9	7	1*220, 1*180, 2*150, 1*100	1080	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	5%	None evident	2	On site	4.42	61.46
89	<i>Rapanea variabilis</i>	Muttonwood	8	3	160	180	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.	Good	5%	None evident	2	On site	2.00	12.57
101	<i>Glochidion ferdinandi</i>	Cheese Tree	12	11	330	410	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	10%	None evident	2	On site	3.96	49.29
102	<i>Livistona australis</i>	Cabbage Palm	13	5	290	410	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	2.00	12.57
103	<i>Glochidion ferdinandi</i>	Cheese Tree	14	13	1*180, 1*190, 1*250	530	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	<5%	None evident	2	On site	4.34	59.29
104	<i>Pittosporum undulatum</i>	Sweet Pittosporum	10	5	1*180, 1*210	290	Mature twin trunk tree with an upright spreading 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 poor health and displays poor vigour.	Poor	20%	Decay and bark cracking is evident in the lower basal area.	4	On site	3.32	34.62
105	<i>Glochidion ferdinandi</i>	Cheese Tree	13	11	290	340	Mature twin trunk (at 3m) 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 site	3.48	38.06
106	<i>Pittosporum undulatum</i>	Sweet Pittosporum	13	6	240	270	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	2	On site	2.88	26.07
107	<i>Livistona australis</i>	Cabbage Palm	9	5	290	380	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.	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	1.60	8.05
108	<i>Livistona australis</i>	Cabbage Palm	8	5	280	380	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.	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	1.50	7.07
109	<i>Synoum glandulosum</i>	Scentless Rosewood	9	5	2*200	310	Mature twin 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	3.39	36.21
110	<i>Livistona australis</i>	Cabbage Palm	8	4	240	340	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.	Good	5%	None evident	1	On site	1.40	6.16
111	<i>Banksia integrifolia</i>	Coastal Banksia	9	0	300	400	Dead single trunk tree with an upright form; an 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	3.60	40.73

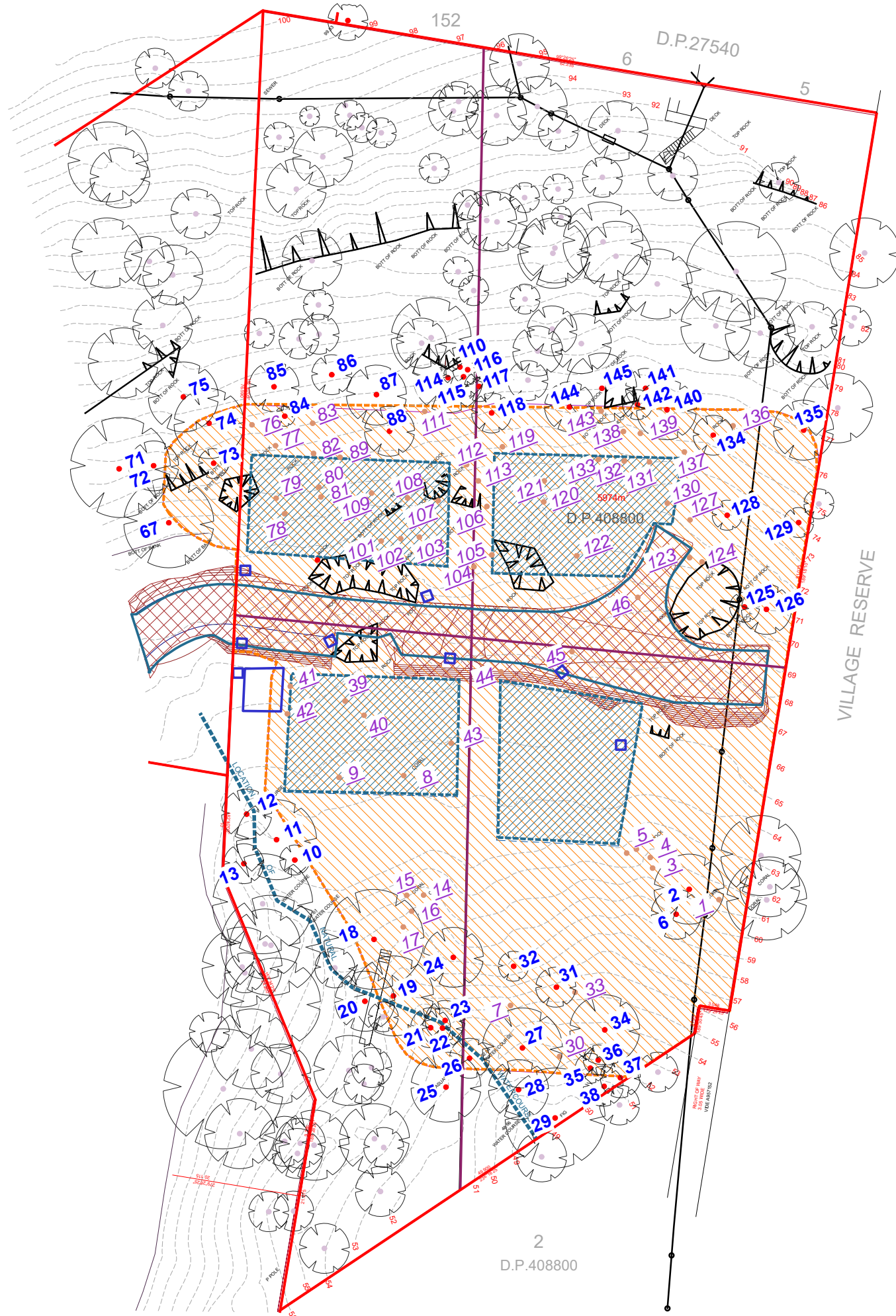


Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	DAB (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On / off site	TPZ Radius (m)	Area of TPZ (m2)
112	<i>Pittosporum undulatum</i>	Sweet Pittosporum	9	4	140	220	Semi-mature single trunk tree with an upright spreading 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.	Low 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	5%	Some epicormic growth present on the lower trunk.	3	On site	2.00	12.57
113	<i>Pittosporum undulatum</i>	Sweet Pittosporum	13	4	1*200, 1*50	380	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	2.47	19.23
114	<i>Synoum glandulosum</i>	Scentsless Rosewood	8	7	190	230	Mature single trunk tree with an upright spreading form; a slight trunk lean to the south west 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%	The tree has a basal wound where a leader has failed with decay present in the wound.	4	On site	2.28	16.34
115	<i>Synoum glandulosum</i>	Scentsless Rosewood	7	4	150	210	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 moderate health and displays fair vigour.	Good	10%	The tree was previously a twin trunk specimen and the tree has regrown from rootstock.	Unstable	On site	2.00	12.57
116	<i>Acmena smithii</i>	Lilly Pilly	9	3	2*120, 1*140, 1*40	300	Semi-mature multi 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 fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	30%	Two of the 4 leaders are dead.	3	On site	2.68	22.63
117	<i>Synoum glandulosum</i>	Scentsless Rosewood	8	3	150	190	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.	Good	5%	None evident	2	On site	2.00	12.57
118	<i>Synoum glandulosum</i>	Scentsless Rosewood	7	4	170	200	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	2.04	13.08
119	<i>Acmena smithii</i>	Lilly Pilly	12	9	1*180, 1*240, 2*150	1300	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 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	50%	Two of the trunks are dead and another is almost dead. The eastern trunk has a lean to the east and the western trunk has sparse branching.	3	On site	4.41	61.10
120	<i>Livistona australis</i>	Cabbage Palm	13	6	380	450	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	2.10	13.86
121	<i>Eucalyptus botryoides</i>	Bangalay / Southern Mahogany	16	8	280	320	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.	Good	15%	The tree has a basal wound on the southern side and some epicormic growth on the trunk.	2	On site	3.36	35.48
122	<i>Acmena smithii</i>	Lilly Pilly	12	9	1*220, 1*270	500	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.	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 has vines throughout the canopy, a sparse canopy and twiggy dieback.	3	On site	4.18	54.90
123	<i>Pittosporum undulatum</i>	Sweet Pittosporum	9	8	1*240, 1*60	360	Mature twin trunk tree with an upright spreading 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 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	20%	The tree has vines growing into the canopy.	3	On site	2.97	27.70
124	<i>Pittosporum undulatum</i>	Sweet Pittosporum	9	5	200	250	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.	Fair	10%	The tree has vines growing into the canopy.	3	On site	2.40	18.10
125	<i>Pittosporum undulatum</i>	Sweet Pittosporum	6	3	120	180	Semi-mature single trunk tree with an upright elliptical form; an upright trunk/s and majority of canopy and branch development is towards the south 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.	Fair	10%	The tree has vines growing into the canopy and twiggy deadwood.	2	On site	2.00	12.57
126	<i>Acmena smithii</i>	Lilly Pilly	7	6	1*120, 1*210	320	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 fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	20%	The tree has vines growing into the canopy.	2	On site	2.90	26.48
127	<i>Livistona australis</i>	Cabbage Palm	13	6	330	400	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	2.00	12.57
128	<i>Pittosporum undulatum</i>	Sweet Pittosporum	9	5	250	270	Mature single trunk tree with an upright spreading form; a distinct trunk lean to the south 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	10%	None evident	2	On site	3.00	28.29
129	<i>Acmena smithii</i>	Lilly Pilly	9	7	320	360	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	15%	The tree has an open sparse canopy.	2	On site	3.84	46.34
130	<i>Livistona australis</i>	Cabbage Palm	13	5	230	320	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	1.90	11.35
131	<i>Livistona australis</i>	Cabbage Palm	13	5	290	360	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	2.00	12.57
132	<i>Pittosporum undulatum</i>	Sweet Pittosporum	11	6	230	340	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 has dieback in the central leader.	4	On site	2.76	23.94
133	<i>Synoum glandulosum</i>	Scentsless Rosewood	9	6	220	290	Mature single trunk tree with an upright spreading form; a distinct trunk lean to the south and majority of canopy and branch development is towards the south. No evidence of significant branch pruning.	Low 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 good vigour.	Good	5%	A limb has failed previously at 4m.	3	On site	2.64	21.90
134	<i>Livistona australis</i>	Cabbage Palm	10	4	280	380	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.	Low L/scape Sig.	The tree displays some signs of instability and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	An adjacent Banksia has fallen onto the palm.	3	On site	1.70	9.08
135	<i>Acmena smithii</i>	Lilly Pilly	9	7	2*220, 2*200, 1*60, 1*80	590	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.	Fair	20%	Several trunks are in poor condition and the tree has a high percentage of deadwood.	3	On site	5.16	83.68



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)
136	<i>Pittosporum undulatum</i>	Sweet Pittosporum	9	4	160	180	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.	Good	10%	Some minor wounding on the eastern side of the trunk.	2	On site	2.00	12.57
137	<i>Brachychiton acerifolius</i>	Illawarra Flame Tree	12	4	180	200	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.	Env. Pest Species - Exempt from Council's DCP	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	2.16	14.66
138	<i>Livistona australis</i>	Cabbage Palm	13	5	290	400	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	2.00	12.57
139	<i>Acmena smithii</i>	Lilly Pilly	12	4	1*200, 1*100, 1*70	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.	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	2.81	24.85
140	<i>Acmena smithii</i>	Lilly Pilly	12	5	1*150, 1*170, 5*40, 2*60	800	Mature multi 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 fair. The tree is considered to be in moderate health and displays fair vigour.	Good	30%	The central leaders show signs of dieback.	3	On site	3.02	28.74
141	<i>Livistona australis</i>	Cabbage Palm	12	4	310	410	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.	Good	5%	The root plate has some minor undercutting by a non-perennial water flows.	1	On site	1.90	11.35
142	<i>Acmena smithii</i>	Lilly Pilly	12	3	2*50, 1*160	380	Mature multi trunk tree with an upright rounded form; a slight trunk lean to the west and balanced canopy and branch development. No evidence of significant branch pruning.	Low 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 root plate has some minor undercutting by non-perennial water flows.	2	On site	2.10	13.85
143	<i>Pittosporum undulatum</i>	Sweet Pittosporum	11	4	160	190	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.	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%	None evident	4	On site	2.00	12.57
144	<i>Acmena smithii</i>	Lilly Pilly	11	6	200	310	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.	Very Good	5%	None evident	1	On site	2.40	18.10
145	<i>Acmena smithii</i>	Lilly Pilly	9	7	2*200	420	Mature twin trunk tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. One of the leaders has been pruned at 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.	Very Good	5%	None evident	1	On site	3.39	36.21





tree legend

- trees to be retained
- trees to be removed
- trees to be retained - beyond proposed works areas & APZ

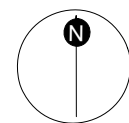
legend

- rock outcrops
- drainage depression
- bushfire Asset Protection Zone
- proposed building footprints
- proposed earthworks & cut / fill batters

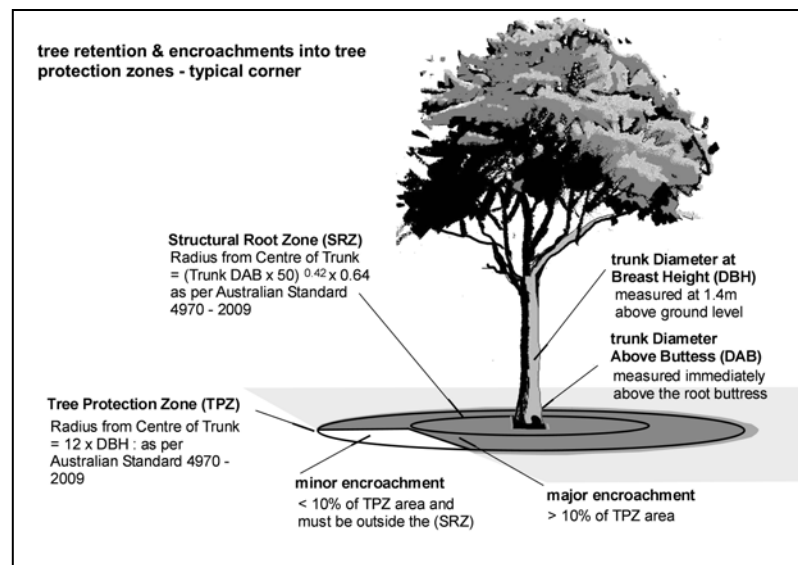
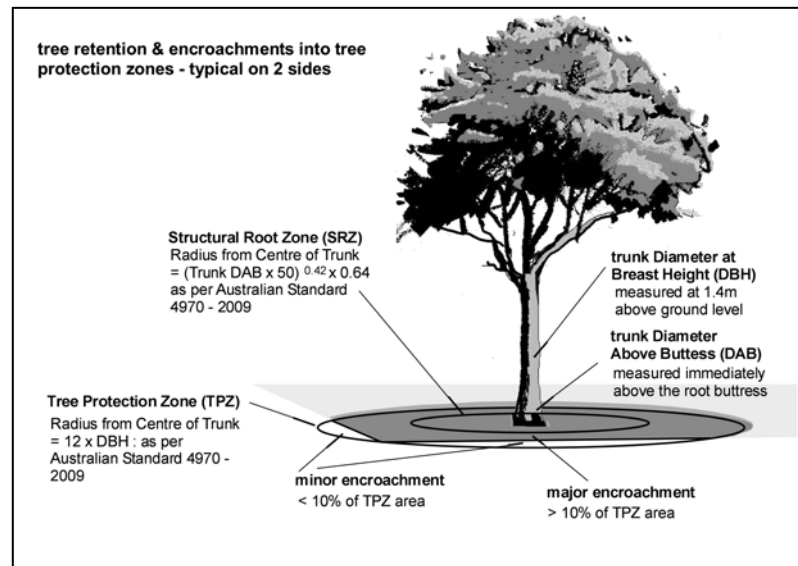
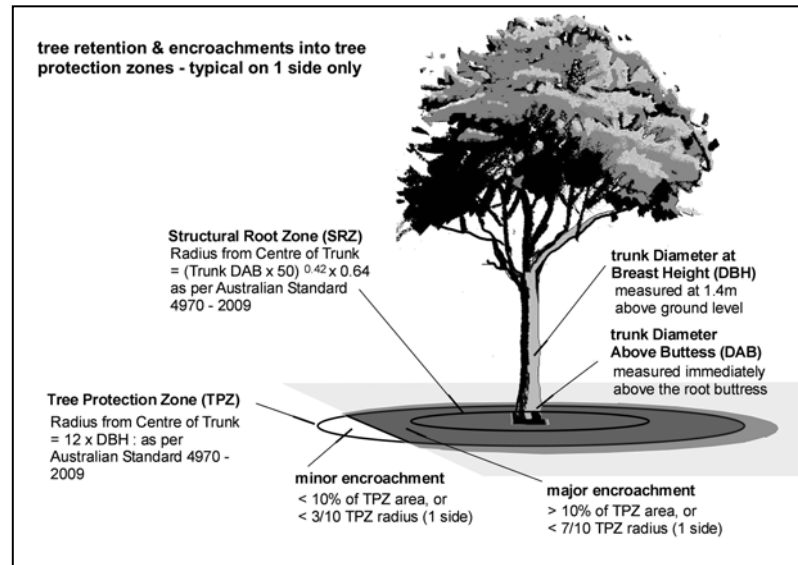
This plan is based upon:

Details & Levels Over Lot 1 in DP 408800 & Lot 2 in DP 1036400, 62 & 85 Hillside Road Newport, Dated 05/04/02, Ref 9499F (Paul Keen & Company Newport, NSW)

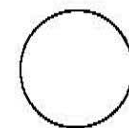
Details & Levels Over Part of Lot 1 in DP408800 & Lot 2 in DP 1036400, 62 - 85 Hillside Road, Newport, Ref No. 9499P, Dated 30/10/15, (Paul Keen & Company, Avalon, NSW)



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

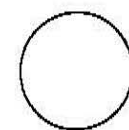


Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / off site
1	<i>Erythrina sykesii indica</i>	1*600, 1*800	1200	4	Env. Pest Species - Exempt from Council's DCP	12.00	452.57	8.40	3.57	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
2	<i>Acmena smithii</i>	1*200, 180	300	1	Moderate L/scape Sig.	3.23	32.77	2.26	2.00	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
3	<i>Pittosporum undulatum</i>	200.	260	2	Low L/scape Sig.	2.40	18.10	1.68	1.88	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
4	<i>Pittosporum undulatum</i>	200.	260	4	Low L/scape Sig.	2.40	18.10	1.68	1.88	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
5	<i>Erythrina sykesii indica</i>	1*300, 2*260, 1*150	1000	2	Env. Pest Species - Exempt from Council's DCP	5.97	112.10	4.18	3.31	The proposed building footprint is within 1.5m (north west) of the tree and the tree is within the Asset Protection Zone	Construction activity is to occur in close proximity to the tree and substantial pruning and damage to the tree is likely to be required.	To be Removed	On site
6	<i>Pittosporum undulatum</i>	200	240	2	Low L/scape Sig.	2.40	18.10	1.68	1.82	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
7	<i>Syncarpia glomulifera</i>	560	680	4	Moderate L/scape Sig.	6.72	141.93	4.70	2.81	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
8	<i>Erythrina sykesii indica</i>	1*620, 1*640, 1*340, 1*410	2100	3	Env. Pest Species - Exempt from Council's DCP	12.46	487.74	8.72	4.52	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
9	<i>Glochidion ferdinandi</i>	380	430	1	Moderate L/scape Sig.	4.56	65.35	3.19	2.32	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
10	<i>Livistona australis</i>	310	390	1	Moderate L/scape Sig.	1.90	11.35	1.33	1.33	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
11	<i>Pittosporum undulatum</i>	480	530	3	Moderate L/scape Sig.	5.76	104.27	4.03	2.53	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
12	<i>Livistona australis</i>	290	320	1	Moderate L/scape Sig.	2.00	12.57	1.40	1.40	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
13	<i>Livistona australis</i>	370	410	1	Moderate L/scape Sig.	1.90	11.35	1.33	1.33	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
14	<i>Erythrina sykesii indica</i>	1*180, 1*670	760	2	Env. Pest Species - Exempt from Council's DCP	8.33	217.82	5.83	2.95	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site



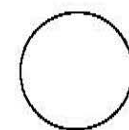
Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / off site
15	<i>Erythrina sykesii indica</i>	2*480, 1*500	1100	2	Env. Pest Species - Exempt from Council's DCP	10.12	321.69	7.08	3.44	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
16	<i>Erythrina sykesii indica</i>	450	500	2	Env. Pest Species - Exempt from Council's DCP	5.40	91.65	3.78	2.47	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
17	<i>Erythrina sykesii indica</i>	1*340, 1*200, 1*330, 1*400, 1*390, 1*310	1700	2	Env. Pest Species - Exempt from Council's DCP	9.55	286.34	6.68	4.14	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
18	<i>Acmena smithii</i>	210	280	2	Moderate L/scape Sig.	2.52	19.96	1.76	1.94	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
19	<i>Livistona australis</i>	260	420	3	Moderate L/scape Sig.	2.10	13.86	1.47	1.47	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
20	<i>Acmena smithii</i>	300	400	2	Moderate L/scape Sig.	3.60	40.73	2.52	2.25	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
21	<i>Livistona australis</i>	220	300	1	Moderate L/scape Sig.	2.10	13.86	1.47	1.47	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
22	<i>Livistona australis</i>	240	340	1	Moderate L/scape Sig.	1.90	11.35	1.33	1.33	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
23	<i>Livistona australis</i>	220	300	1	Moderate L/scape Sig.	2.00	12.57	1.40	1.40	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
24	<i>Syncarpia glomulifera</i>	300	400	1	Moderate L/scape Sig.	3.60	40.73	2.52	2.25	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
25	<i>Casuarina glauca</i>	200	280	2	Moderate L/scape Sig.	2.40	18.10	1.68	1.94	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
26	<i>Livistona australis</i>	220	320	1	Moderate L/scape Sig.	1.70	9.08	1.19	1.19	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
27	<i>Acmena smithii</i>	1*180, 1*300	460	2	Moderate L/scape Sig.	4.20	55.39	2.94	2.39	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
28	<i>Acmena sp.</i>	1*180, 1*200	260	Unstable	Low L/scape Sig.	3.23	32.77	2.26	1.88	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
29	<i>Ficus rubiginosa</i>	500	600	1	High L/scape Sig.	6.00	113.14	4.20	2.67	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
30	<i>Strelitzia sp.</i>	200	300	2	Env. Pest Species - Exempt from Council's DCP	1.40	6.16	0.98	0.98	The proposed Asset Protection Zone 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 (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / off site
31	<i>Livistona australis</i>	320	420	2	Moderate L/scape Sig.	2.10	13.86	1.47	1.47	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
32	<i>Pittosporum undulatum</i>	130	210	2	Low L/scape Sig.	2.00	12.57	1.40	1.72	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
33	<i>Glochidion ferdinandi</i>	300	360	2	Moderate L/scape Sig.	3.60	40.73	2.52	2.15	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
34	<i>Glochidion ferdinandi</i>	300	400	2	Moderate L/scape Sig.	3.60	40.73	2.52	2.25	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
35	<i>Pittosporum undulatum</i>	260	300	2	Moderate L/scape Sig.	3.12	30.59	2.18	2.00	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
36	<i>Acmena smithii</i>	200	240	2	Moderate L/scape Sig.	2.40	18.10	1.68	1.82	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
37	<i>Livistona australis</i>	300	400	1	Moderate L/scape Sig.	2.00	12.57	1.40	1.40	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
38	<i>Livistona australis</i>	300	400	1	Low L/scape Sig.	2.00	12.57	1.40	1.40	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
39	<i>Pittosporum undulatum</i>	300	400	3	Moderate L/scape Sig.	3.60	40.73	2.52	2.25	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
40	<i>Acmena smithii</i>	200	280	3	Low L/scape Sig.	2.40	18.10	1.68	1.94	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
41	<i>Acmena smithii</i>	3*220, 1*180	550	3	Moderate L/scape Sig.	5.06	80.38	3.54	2.57	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
42	<i>Acmena smithii</i>	1*280, 2*260, 1*200	560	1	High L/scape Sig.	5.18	84.18	3.62	2.59	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
43	<i>Livistona australis</i>	300	400	1	Low L/scape Sig.	1.00	3.14	0.70	0.70	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
44	<i>Livistona australis</i>	360	420	1	Low L/scape Sig.	1.00	3.14	0.70	0.70	The proposed access road is within 0.5m (north) of the tree.	Changes to soil levels are likely to involve fill and or excavation effecting a substantial portion of the tree's root system.	To be Removed	On site
45	<i>Livistona australis</i>	200	310	1	Moderate L/scape Sig.	1.80	10.18	1.26	1.26	The proposed access road spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
46	<i>Livistona australis</i>	380	450	1	Moderate L/scape Sig.	2.10	13.86	1.47	1.47	The proposed access road spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site



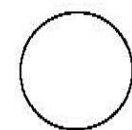
Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / off site
67	<i>Livistona australis</i>	300	390	1	Moderate L/scape Sig.	1.90	11.35	1.33	1.33	No proposed works within the tree's Tree Protection Zone	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
71	<i>Glochidion ferdinandi</i>	1*200, 1*230	480	3	Moderate L/scape Sig.	3.66	42.04	2.56	2.43	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
72	<i>Acmena sp.</i>	2*150, 2*100	260	Unstable	Low L/scape Sig.	2.47	19.23	1.73	1.88	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
73	<i>Unidentified species</i>	120	100	4	Low L/scape Sig.	2.00	12.57	1.40	1.26	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
74	<i>Pittosporum undulatum</i>	200	260	2	Moderate L/scape Sig.	2.40	18.10	1.68	1.88	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
75	<i>Pittosporum undulatum</i>	280	380	1	Moderate L/scape Sig.	3.36	35.48	2.35	2.20	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
76	<i>Rapanea variabilis</i>	180	200	2	Low L/scape Sig.	2.16	14.66	1.51	1.68	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
77	<i>Pittosporum undulatum</i>	190	280	3	Moderate L/scape Sig.	2.28	16.34	1.60	1.94	The proposed building footprint is within 0.8m (south) of the tree and the proposed Asset Protection Zone spatially conflicts with the location of the tree.	Changes to soil levels are likely to involve fill and or excavation effecting a substantial portion of the tree's root system.	To be Removed	On site
78	<i>Pittosporum undulatum</i>	200	190	2	Moderate L/scape Sig.	2.40	18.10	1.68	1.65	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
79	<i>Pittosporum undulatum</i>	140	180	2	Low L/scape Sig.	2.00	12.57	1.40	1.61	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
80	<i>Pittosporum undulatum</i>	100	160	2	Low L/scape Sig.	2.00	12.57	1.40	1.53	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
81	<i>Banksia integrifolia</i>	380	480	Unstable	Low L/scape Sig.	4.56	65.35	3.19	2.43	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
82	<i>Pittosporum undulatum</i>	140	180	3	Low L/scape Sig.	2.00	12.57	1.40	1.61	The proposed building footprint is within 0.2m (south) of the tree and the proposed Asset Protection Zone spatially conflicts with the location of the tree.	Changes to soil levels are likely to involve fill and or excavation effecting a substantial portion of the tree's root system.	To be Removed	On site
83	<i>Pittosporum undulatum</i>	180	210	3	Low L/scape Sig.	2.16	14.66	1.51	1.72	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
84	<i>Rapanea variabilis</i>	140	190	1	Low L/scape Sig.	2.00	12.57	1.40	1.65	The proposed Asset Protection Zone spatially conflicts with the location 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 (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / off site
85	<i>Acmena smithii</i>	2*220, 2*50, 1*90	410	Unstable	Low L/scape Sig.	3.98	49.74	2.78	2.28	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
86	<i>Livistona australis</i>	220	320	1	Moderate L/scape Sig.	1.50	7.07	1.05	1.05	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	<i>Acmena smithii</i>	1*110, 2*100, 1*50	820	2	Low L/scape Sig.	2.23	15.66	1.56	3.04	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
88	<i>Acmena smithii</i>	1*220, 1*180, 2*150, 1*100	1080	2	Moderate L/scape Sig.	4.42	61.46	3.10	3.42	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
89	<i>Rapanea variabilis</i>	160	180	2	Low L/scape Sig.	2.00	12.57	1.40	1.61	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
90	<i>Glochidion ferdinandi</i>	360	390	1	Moderate L/scape Sig.	4.32	58.65	3.02	2.23	The proposed access road batter spatially conflicts with the location of the tree.	Changes to soil levels are likely to involve fill and or excavation effecting a substantial portion of the tree's root system.	To be Removed	On site
101	<i>Glochidion ferdinandi</i>	330	410	2	Moderate L/scape Sig.	3.96	49.29	2.77	2.28	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
102	<i>Livistona australis</i>	290	410	1	Moderate L/scape Sig.	2.00	12.57	1.40	1.40	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
103	<i>Glochidion ferdinandi</i>	1*180, 1*190, 1*250	530	2	Moderate L/scape Sig.	4.34	59.29	3.04	2.53	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
104	<i>Pittosporum undulatum</i>	1*180, 1*210	290	4	Low L/scape Sig.	3.32	34.62	2.32	1.97	The proposed building footprints are within 1.7m (east) and 2.1m (west) of the tree. The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Changes to soil levels are likely to involve fill and or excavation effecting a substantial portion of the tree's root system.	To be Removed	On site
105	<i>Glochidion ferdinandi</i>	290	340	2	Moderate L/scape Sig.	3.48	38.06	2.44	2.10	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
106	<i>Pittosporum undulatum</i>	240	270	2	Moderate L/scape Sig.	2.88	26.07	2.02	1.91	The proposed building footprints are within 0.5m (east) and 3.2m (west) of the tree. The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Changes to soil levels are likely to involve fill and or excavation effecting a substantial portion of the tree's root system.	To be Removed	On site
107	<i>Livistona australis</i>	290	380	1	Low L/scape Sig.	1.60	8.05	1.12	1.12	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
108	<i>Livistona australis</i>	280	380	1	Low L/scape Sig.	1.50	7.07	1.05	1.05	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 (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / off site
109	<i>Synoum glandulosum</i>	2*200	310	2	Low L/scape Sig.	3.39	36.21	2.38	2.02	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
110	<i>Livistona australis</i>	240	340	1	Moderate L/scape Sig.	1.40	6.16	0.98	0.98	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	<i>Banksia integrifolia</i>	300	400	Unstable	Low L/scape Sig.	3.60	40.73	2.52	2.25	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
112	<i>Pittosporum undulatum</i>	140	220	3	Low L/scape Sig.	2.00	12.57	1.40	1.75	The proposed building footprints are within 2.7m (east) and 1.1m (west) of the tree. The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Changes to soil levels are likely to involve fill and or excavation effecting a substantial portion of the tree's root system.	To be Removed	On site
113	<i>Pittosporum undulatum</i>	1*200, 1*50	380	2	Moderate L/scape Sig.	2.47	19.23	1.73	2.20	The proposed building footprints are within 1.5m (east) and 2.2m (west) of the tree. The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Changes to soil levels are likely to involve fill and or excavation effecting a substantial portion of the tree's root system.	To be Removed	On site
114	<i>Synoum glandulosum</i>	190	230	4	Low L/scape Sig.	2.28	16.34	1.60	1.79	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
115	<i>Synoum glandulosum</i>	150	210	Unstable	Low L/scape Sig.	2.00	12.57	1.40	1.72	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	<i>Acmena smithii</i>	2*120, 1*140, 1*40	300	3	Low L/scape Sig.	2.68	22.63	1.88	2.00	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	<i>Synoum glandulosum</i>	150	190	2	Low L/scape Sig.	2.00	12.57	1.40	1.65	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
118	<i>Synoum glandulosum</i>	170	200	2	Low L/scape Sig.	2.04	13.08	1.43	1.68	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
119	<i>Acmena smithii</i>	1*180, 1*240, 2*150	1300	3	Moderate L/scape Sig.	4.41	61.10	3.09	3.69	The proposed building footprints are within 0.6m (south) of the tree. The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Changes to soil levels are likely to involve fill and or excavation effecting a substantial portion of the tree's root system.	To be Removed	On site
120	<i>Livistona australis</i>	380	450	1	Moderate L/scape Sig.	2.10	13.86	1.47	1.47	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
121	<i>Eucalyptus botryoides</i>	280	320	2	Moderate L/scape Sig.	3.36	35.48	2.35	2.05	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
122	<i>Acmena smithii</i>	1*220, 1*270	500	3	Moderate L/scape Sig.	4.18	54.90	2.93	2.47	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 (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / off site
123	<i>Pittosporum undulatum</i>	1*240, 1*60	360	3	Moderate L/scape Sig.	2.97	27.70	2.08	2.15	The proposed access road spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
124	<i>Pittosporum undulatum</i>	200	250	3	Low L/scape Sig.	2.40	18.10	1.68	1.85	The proposed access road spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
125	<i>Pittosporum undulatum</i>	120	180	2	Low L/scape Sig.	2.00	12.57	1.40	1.61	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
126	<i>Acmena smithii</i>	1*120, 1*210	320	2	Low L/scape Sig.	2.90	26.48	2.03	2.05	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
127	<i>Livistona australis</i>	330	400	1	Moderate L/scape Sig.	2.00	12.57	1.40	1.40	The proposed building footprint is within 1.6m (west) of the palm and the proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
128	<i>Pittosporum undulatum</i>	250	270	2	Moderate L/scape Sig.	3.00	28.29	2.10	1.91	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
129	<i>Acmena smithii</i>	320	360	2	Moderate L/scape Sig.	3.84	46.34	2.69	2.15	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
130	<i>Livistona australis</i>	230	320	1	Moderate L/scape Sig.	1.90	11.35	1.33	1.33	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
131	<i>Livistona australis</i>	290	360	1	Moderate L/scape Sig.	2.00	12.57	1.40	1.40	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
132	<i>Pittosporum undulatum</i>	230	340	4	Moderate L/scape Sig.	2.76	23.94	1.93	2.10	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
133	<i>Synoum glandulosum</i>	220	290	3	Low L/scape Sig.	2.64	21.90	1.85	1.97	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
134	<i>Livistona australis</i>	280	380	3	Low L/scape Sig.	1.70	9.08	1.19	1.19	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	No significant impact with appropriate Tree Protection Measures.	Retained with General Tree Protection Measures	On site
135	<i>Acmena smithii</i>	2*220, 2*200, 1*60, 1*80	590	3	Moderate L/scape Sig.	5.16	83.68	3.61	2.65	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
136	<i>Pittosporum undulatum</i>	160	180	2	Low L/scape Sig.	2.00	12.57	1.40	1.61	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
137	<i>Brachychiton acerifolius</i>	180	200	2	Env. Pest Species - Exempt from Council's DCP	2.16	14.66	1.51	1.68	The proposed building footprint is within 0.6m (south west) of the tree and the proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site



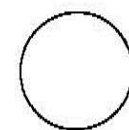
Tree No	Genus Species	DBH (mm)	DAB (mm)	SULE	Env./ L/scape Sig.	TPZ Radius (m)	Area of TPZ (m2)	Radius of 90% of TPZ (7/10)	SRZ Radius (m)	Adjacent Works	Influence on Tree	Plan Status	On / off site
138	<i>Livistona australis</i>	290	400	1	Moderate L/scape Sig.	2.00	12.57	1.40	1.40	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
139	<i>Acmena smithii</i>	1*200, 1*100, 1*70	500	1	Low L/scape Sig.	2.81	24.85	1.97	2.47	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
140	<i>Acmena smithii</i>	1*150, 1*170, 5*40, 2*60	800	3	Moderate L/scape Sig.	3.02	28.74	2.12	3.01	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
141	<i>Livistona australis</i>	310	410	1	Moderate L/scape Sig.	1.90	11.35	1.33	1.33	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
142	<i>Acmena smithii</i>	2*50, 1*160	380	2	Low L/scape Sig.	2.10	13.85	1.47	2.20	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
143	<i>Pittosporum undulatum</i>	160	190	4	Moderate L/scape Sig.	2.00	12.57	1.40	1.65	The proposed Asset Protection Zone spatially conflicts with the location of the tree.	Not applicable	To be Removed	On site
144	<i>Acmena smithii</i>	200	310	1	Moderate L/scape Sig.	2.40	18.10	1.68	2.02	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
145	<i>Acmena smithii</i>	2*200	420	1	Moderate L/scape Sig.	3.39	36.21	2.38	2.30	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



Figure 16.1 The existing earthen track looking south west with the palm, Tree No. 45 in the foreground.



Figure 16.2 The vegetation upslope of the earthen track looking west with palm, Tree No. 46 in the foreground.



tree protection measures

general tree protection during construction

Prior to earthworks or construction activities, the removal of the identified trees should be undertaken with particular attention given to ensure that no damage occurs to the canopy foliage and branch structure of the trees to be retained.

Prior to construction of subdivision works, 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 Zone (refer TPZ sheets 3- 5).

distance away from tree
- as shown on tree protection plan, or
- as specified radius from trees

fencing material
chainmesh, weldmesh,
plywood or paling fence

signage
tree protection signage
fixed to fence

sediment control fencing
sediment control fencing
required where building works
are upslope or within 200mm
of tree protection fencing

tree protection fencing - specifications

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Prior to construction of subdivision works, tree protection signage is to be installed on tree protection fencing in accordance with the specification Tree Protection Fencing (below)

signage size
min size 420 x 290mm
in colour

fixing
signs shall be fixed at a
height of 1500mm above
ground and a number of
signs shall be fixed on the
tree protection fencing so that
a sign is visible from all
directions

format of signage
format based upon
Australia Standard - Safety
Signs for the Occupational
Environment AS 1319 -
1994

tree protection signage - specifications

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The building contractor shall ensure that at all times during site works no activities, stock piles, storage or disposal of materials shall take place within the fenced off areas and that all Protective Fences remain secure throughout the development work period.

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 and protective 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.

Outside the approved subdivision works or retaining walls, the existing ground levels within the Tree Protection Zones (refer TPZ sheets 10-14) must remain unchanged.

Specific excavation for services that require critical fall (eg. sewer, stormwater) may be undertaken within the fenced off areas only under the direct supervision of the project arborist and the trenching must be dug using hand tools or thrust boring ensuring that tree roots are not severed.

hand tools
include the use of shovels, crowbars.
(mattocks & axes shall not be used).

retention of tree roots
tree roots < 30mm dia. shall remain
intact and shall not be severed or
damaged.

inspection of tree roots
excavation is to be conducted
under the supervision of the project
arborist and where tree roots
spatially conflict with the fall line of
the service, depending upon the
number and size of the tree roots,
the project arborist shall either:
cleanly prune the tree roots and
treat them with a root hormone
compound, or provide instructions
to leave the tree roots intact,
backfill the excavation and
investigate alternate locations.

**excavation for services using hand tools within Tree
Protection Zones - specifications**

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Any tree damage that occurs to trees or tree roots during site works is to be treated by an experienced and qualified arborist. Where branch pruning works are 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.

tree report summary

conclusion

This report has been prepared to assess the condition and significance of a number of trees on and adjacent the allotments known as 62 Hillside Road, Newport and assess the potential impact of the proposed development on the identified trees. The report has been commissioned by Cariste Pty Ltd and site instructions have been provided by Martens & Associates Pty Ltd. Subsequent site inspections and field work were conducted between the 04/04/16 and 05/04/16. For the purposes of this report the properties known as 62 Hillside Road, Newport will be referred to as the site.

The terminology in this report and development impact assessments are based upon the Australian Standard, Protection of Trees on Development Sites AS 4970-2009 and the definition of a tree in this report is consistent with Pittwater Council's definition of a tree, as per Pittwater DCP 21 Control B4.22 being "any tree or shrub whether endemic, exotic or introduced species with a height exceeding three 3 meters, or trunk exceeding 0.5m, or a canopy width spread exceeding 5m".

The allotment known as 62 Hillside Road contains a dilapidated timber framed dwelling and a detached shed. The vegetation surrounding the dilapidated dwelling has been disturbed whilst the remainder of the allotment contains indigenous vegetation.

The proposed subdivision involves creating 4 allotments within 62 Hillside Road, the creation of bushfire Asset Protection Zones around the proposed building footprints, and construction of an access road with a vehicle turning "Y".

Whilst there are several hundred trees on the site, 111 trees that are within close proximity to the proposed subdivision works or are within the proposed building footprints or are within the proposed bushfire Asset Protection Zone have been considered in this report. Of the 111 trees considered in this report, 105 trees are located on the site and 6 trees are located on the adjoining allotment.

Of the 105 trees considered on the site:

- 48 trees are to be retained in proximity to proposed works, and
- 57 trees are proposed to be removed.

Details of the 48 Trees to be Retained on Site in Proximity to Proposed Works (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	15	1	
SULE - 2			9	11		
SULE - 3			2	4		
SULE - 4			1			
Unstable			3			

Details of the 57 Trees to be Removed on Site (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	9	1	
SULE - 2		7	6	8		
SULE - 3		1	6	6		
SULE - 4		1	2	3		
Unstable			2			

Provided that the general tree protection measures (refer opposite this sheet) are implemented and works are undertaken in a sensitive manner, it is considered that the proposed development will not have a significant impact on the long-term health of the trees identified as being retained.

