



# impact of development on trees - proposed private hospital, 1-8 niel avenue, greenwich

prepared by  
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9 October 2008

### Background

This report has been prepared to assess the condition and significance of the existing trees on and adjacent the properties of 1- 8 Niel Avenue, Greenwich and assess the impact of the proposed development on the existing trees. The report has been commissioned by Waterbrook at Greenwich Partnership and site instructions have been provided by Marchese & Partners Architects Pty Ltd.

Initial site inspections and field work were conducted between the 25th October and 28th November 2005 and further reassessment and field work was undertaken between the 7th & 12th March 2007. For the purpose of this report, the properties known as 1, 2, 3, 4A, 4B, 5, 6, 7, & 8 Niel Avenue, Greenwich will be referred to as the site.

### Existing Site

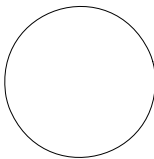
The site is currently developed and consists of 9 residential properties with associated driveways, carparks and garages together with paved and terraced areas and associated landscaping. The landscape character of the site is a mix of exotic and non endemic native small trees palms and shrubs dominated by several large endemic trees. There are 140 trees considered in this report consisting of 128 trees on site and 12 trees on adjoining allotments.

### Proposed Development

The proposed development involves demolition of the existing built structures and construction of a private hospital with basement carparking (Marchese & Partners 2008). This report highlights those trees that can be retained in a healthy and stable state and those trees that will be significantly impacted upon and will need to be removed.

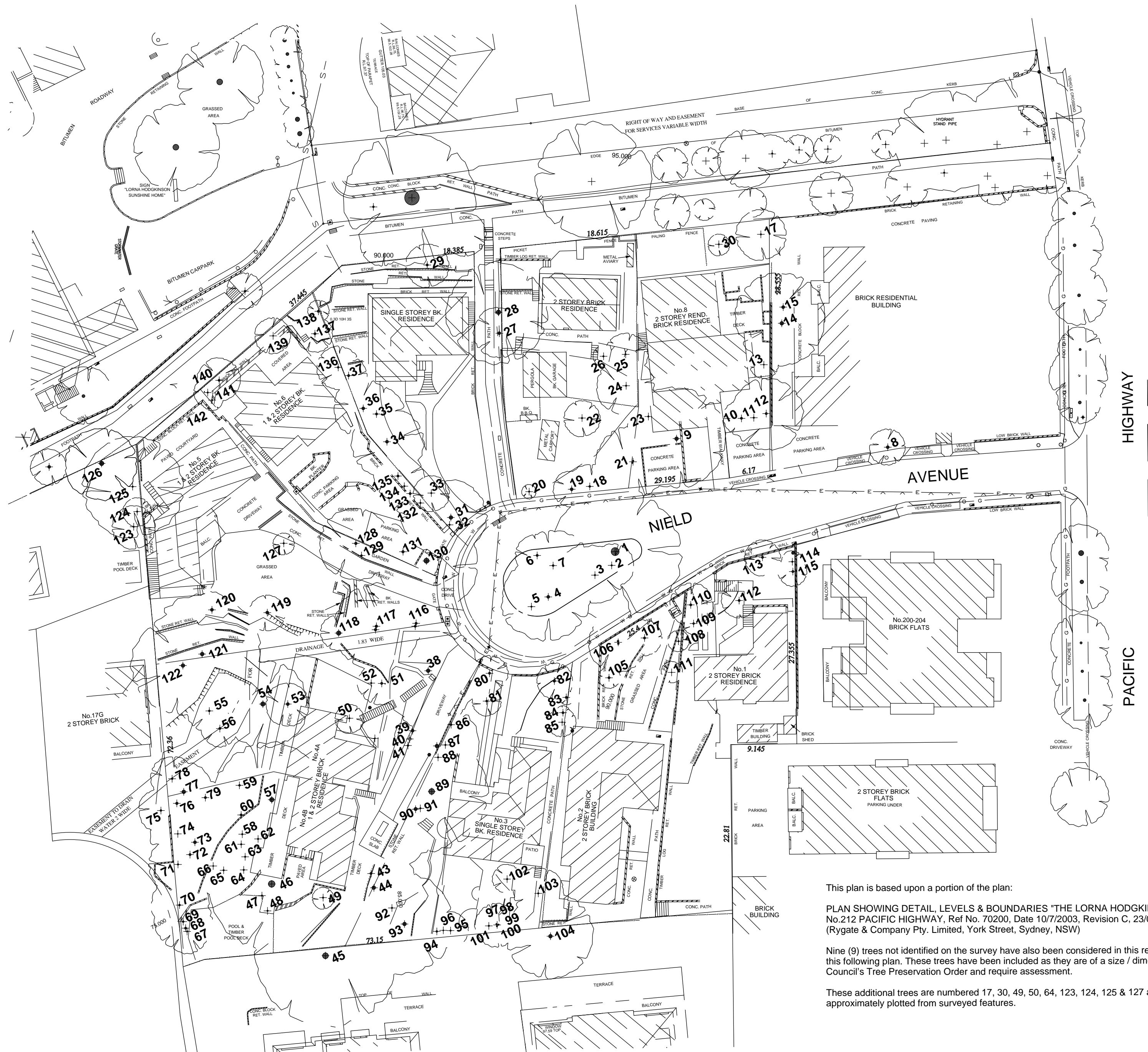
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cover sheet



legend



tree canopy as per survey

999

tree reference numbers

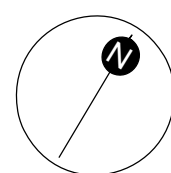
This plan is based upon a portion of the plan:

PLAN SHOWING DETAIL, LEVELS & BOUNDARIES "THE LORNA HODGKINSON SUNSHINE HOME"  
No.212 PACIFIC HIGHWAY, Ref No. 70200, Date 10/7/2003, Revision C, 23/09/2005  
(Rygate & Company Pty. Limited, York Street, Sydney, NSW)

Nine (9) trees not identified on the survey have also been considered in this report and have been added to this following plan. These trees have been included as they are of a size / dimension that is covered by the Council's Tree Preservation Order and require assessment.

These additional trees are numbered 17, 30, 49, 50, 64, 123, 124, 125 & 127 and their locations have been approximately plotted from surveyed features.

**WATERBROOK CARE**  
GREENWICH



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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 their survival or habitat. Whilst threatened tree species are recognised in this report, other threatened plants, threatened communities and populations are not and would be subject to additional assessment.

**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.

**Pest Species**  
There are a number of environmental pest species that commonly cause problems in urban areas or readily spread into natural bushland areas. Many of these are not declared as being noxious but are recognised by Councils as problematic species and are often exempt from protection under Tree Preservation Orders and/or are listed as undesirable, nuisance or pest species in Council guidelines or policies.

significance in the landscape

Assessment of a tree's significance in the landscape takes into account its prominence from a broad landscape perspective, neighbourhood perspective, local perspective and a site perspective. The landscape significance is generally categorised as:

- Significant – prominent in the broader landscape;
- High - prominent from a neighborhood perspective;
- Moderate – prominent from the immediate surrounding properties;
- Low - prominent from a site perspective only.

tree condition & life expectancy

condition

The condition of each tree is assessed by undertaking a visual inspection of the trees themselves, surrounding vegetation and the site conditions.

Each assessment takes into account the condition of the tree's trunk, branches, foliage, roots (if exposed), 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 Safe Useful Life Expectancy (SULE) of each tree is determined after considering, tree's condition, the estimated age of the tree, the life span of the species, local environment conditions and the location of the tree from a safety aspect.

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	Remove, 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 the tree structurally hazardous.

development planning

development planning - identifying trees to be retained

The retention priorities should be used as a guide when determining the development footprints and it is recognised that other factors such as development design, solar access and topographic constraints, may need to be taken into account when determining the optimal location and size of the proposed development.

If compromises are to be made to the tree priorities, other factors such as maximising tree retention together with tree replenishment should be considered along with the tree priorities listed here.

tree protection setbacks

Where trees are intended to be retained, development footprints where possible should avoid the area beneath the canopy of a tree, as disturbance in this area 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.

To minimise the impacts on trees to be retained, developments should be setback away from trees to provide adequate areas for tree's Primary Root Zone (PRZ) and in particular the tree's Critical Root Zone (CRZ).

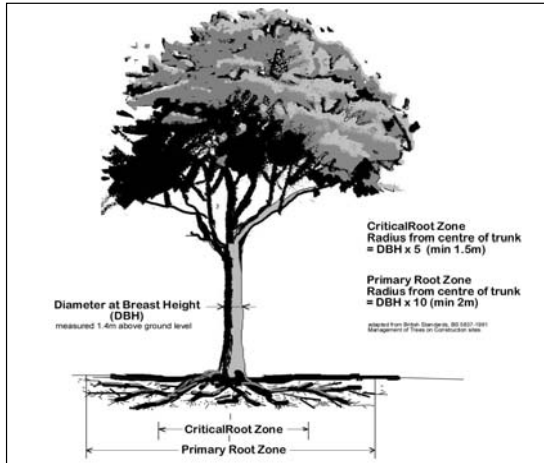


Figure 6.1 Typical diagram of Primary & Critical Root Zones.

Where trees are multi-trunk specimens an individual assessment needs to be made based upon the number of trunks, the trunk diameters and the canopy spread of the tree.

The CRZ has been described by many authors and is based upon consideration of published material such as British Standards 5837(1991), Mattheck & Breloer (1997), Harris *et al* (1999) and experience.

designed tree protection for trees to be retained

Development footprints and changes to soil levels should not occur within the Primary Root Zone of trees that are intended to be retained, however in some cases encroachments into the tree's Primary Root Zone can still accommodate retention of the tree.

Depending upon the tree's age, condition, species and immediate environment together with the scale and duration of impacts, some encroachment can occur within the Primary Root Zone, provided that soil and root disturbance is minimised. In many cases suspended slabs on pier and beam footings can minimise soil disturbance adjacent trees identified for retention.

Where this is not possible, trees identified for retention should have an adequate undisturbed area surrounding the tree. This area is set aside for the tree's root zone and it is essential for the stability and longevity of the tree. Root zones do vary depending upon the species of tree, its condition, its maturity and the immediate environment. Unless a specific assessment states otherwise, this undisturbed area is to be at least 80% of the total Primary Root Zone and must maintain all of the Critical Root Zone.

developments within the Critical Root Zone of trees

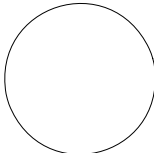
Developments that encroach into the Critical Root Zone of a tree must be elevated above the ground and requires detailed assessment depending upon the tree (species, condition etc.).

developments within the Primary Root Zone of trees

Developments in the vicinity of trees that require excavation or fill can occur in the Primary Root Zone provided that the entire Critical Root Zone is undisturbed and 80% of the total Primary Root Zone remains undisturbed.

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On / off site	Critical Root Zone Radius (m)	Primary Root Zone Radius (m)
1	<i>Eucalyptus saligna</i>	Sydney Blue Gum	24	16	1400	Over mature single trunk tree with an upright forest form; a distinct trunk lean to the north east and balanced canopy and branch development. large limbs in excess of 300-400 removed to a height of 10-12m	Significant L/scape Sig.	The tree stability is suspect and its branch attachment appears fair having a large cavity 3m in height from ground level on north east side of tree extending at least 0.5m into tree and evidence of recent limb failure. The tree is considered to be in moderate health and displays good vigour.	Good	5%	Evidence of termite damage in cavity that appears to have been treated previously. Some decay in stubs. Major hollow/cavity at base extending over 50% into base, minimum 600mm. Evidence of major limb failures in the past at 10-15m.	Unstable	On site / within road reserve	6	12
2	<i>Melaleuca linariifolia</i>	Snow-in-Summer	5	3	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.	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	40%	None evident	4	On site / within road reserve	1.5	2
3	<i>Melaleuca bracteata</i>	Revolution Gold	6	6	2*200	Mature twin trunk at 0.2m tree with a broad rounded form; an upright trunk/s and balanced canopy and branch development. Lower limbs of the tree have been pruned to 1.5m.	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	10%	None evident	3	On site / within road reserve	2	3
4	<i>Eucalyptus</i> sp.	Unidentified eucalypt species	16	14	600	Mature multi trunk at 2m tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. appears central leader pruned at 2m many years ago resulting in multi trunks	High L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays good vigour with minor epicormic growth.	Good	5%	decay in old stub/wound area on the southern side at 2m	2	On site / within road reserve	3	6
5	<i>Melaleuca bracteata</i>	Revolution Gold	7	5	200	Mature single trunk tree with a broad spreading form; a slight trunk lean to the south 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 good health and displays good vigour.	Good	5%	None evident	3	On site / within road reserve	1.5	2
6	<i>Melaleuca</i> sp.		9	5	300	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%	None evident	3	On site / within road reserve	1.5	3
7	<i>Eucalyptus</i> sp.	Unidentified eucalypt species	8	8	250	Semi-mature multi trunk at 2m tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. Appears that the central leader has been pruned/removed at 1.8m many years ago resulting in multi trunk branching.	Low L/scape Sig.	The tree appears stable and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour with two limbs of approx 100-140 DBH have failed recently at 2-3m.	Fair	25%	None evident	4	On site / within road reserve	2	2.5
8	<i>Populus nigra 'italica'</i>	Black Lombardy Poplar	18	5	500	Mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	2	On adjacent allotment	2	4
9	<i>Jacaranda mimosifolia</i>	Jacaranda	13	12	600	Mature multi trunk at 2m tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. Lower limbs of the tree have been pruned to 5m.	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	5
10	<i>Schefflera actinophylla</i>	Umbrella Tree	10	3	250	Mature twin trunk at 3m tree with an upright columnar form; a distinct trunk lean to the north 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 poor with moderate bark inclusion at 3m. The tree is considered to be in moderate health and displays fair vigour.	Good	5%	None evident	3	On site	1.5	2.5
11	<i>Howea forsteriana</i>	Kentia Palm	9	3	200	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 sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	1 / 5	On site	1	1.5
12	<i>Magnolia soulangeana</i>	Magnolia	8	9	1*200, 1*300	Mature twin trunk at 0.2m tree with a broad spreading form; an upright trunk/s and majority of canopy and branch development is towards the 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 good health and displays good vigour.	Good	5%	Ivy growing on the trunk to 6m	2	On site	2	3

(table continued over)



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**arboricultural assessment - data sheet A**

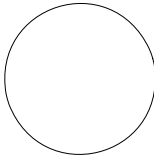


Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On / off site	Critical Root Zone Radius (m)	Primary Root Zone Radius (m)
13	<i>Howea forsteriana</i>	Kentia Palm	9	3	200	Mature single trunk tree with an elevated spreading form; a slight trunk lean to the north and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree stability is suspect with trunk severely damaged to 2m from ground level and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	<5%	None evident	4	On site	1	1.5
14	<i>Populus sp.</i>	Poplar	20	11	500	Mature single trunk tree with an upright columnar 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.	High L/scape Sig.	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be in moderate health and displays fair vigour.	Poor	15%	Ivy growing on the tree to 11m, evidence of branch failure at 14m and signs of epicormic growth throughout.	Unstable	On adjacent allotment	2.5	5
15	<i>Populus sp.</i>	Poplar	18	9	500	Mature single trunk tree with a tall columnar form; a distinct trunk lean to the west and majority of canopy and branch development is towards the west. Evidence of other poplars along the same line having failed.	High 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 fair vigour.	Fair	5%	Ivy growing on the tree to 11m and signs of epicormic growth throughout.	3	On adjacent allotment	2.5	5
17	<i>Jacaranda mimosifolia</i>	Jacaranda	10	7	100	Semi-mature single trunk tree with a broad spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays good vigour.	Good	5%	Climbers growing on the tree to 5m.	2	On adjacent allotment	1.5	2
18	<i>Cupressus sp.</i>	Cypress	6	6	2*200, 2*100, 3*60	Mature multi trunk at 0.2m tree with an upright rounded form; an upright trunk/s and majority of canopy and branch development is towards the north. Upper branches have been pruned to accommodate overhead wires.	Low L/scape Sig.	The tree displays some signs of instability with numerous bark inclusions at 0.2m and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour.	Fair	10%	None evident	4	On site	2	4
19	<i>Cupressus sp.</i>	Cypress	9	7	1* 300, >10, 100-200	Mature multi trunk at 0.2m tree with an upright pyramidal form; an upright trunk/s and majority of canopy and branch development is towards the north. Upper branches have been pruned to accommodate overhead wires on southern side.	Moderate L/scape Sig.	The tree stability is suspect and its branch attachment appears poor with numerous bark inclusions. The tree is considered to be in moderate health and displays poor vigour - failing in centre.	Fair	5%	None evident	Unstable	On site	2	4
20	<i>Cupressus sempervirens</i>	Italian Cypress	11	2	240	Mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. Upper branches have been pruned to accommodate overhead wires on southern side of tree.	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%	dead sections on northern side of tree	3	On site	2	3
21	<i>Magnolia soulangeana</i>	Magnolia	8	8	4*200	Mature multi trunk at ground level 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 good vigour.	Good	5%	None evident	2	On site	2	3
22	<i>Prunus persica</i>	Peach	5	4	200	Mature single trunk tree with a broad elliptical form; a distinct trunk lean to the north and majority of canopy and branch development is towards the north. Lower limbs of the tree have been pruned to 1.5m.	Low L/scape Sig.	The tree displays some signs of instability with evidence of decay in the base and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Good	20%	decay in base at 0.2m	4	On site	1.5	2
23	<i>Howea forsteriana</i>	Kentia Palm	9	3	200	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 sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2 / 5	On site	1	1.5
24	<i>Eriobotrya japonica</i>	Loquat	8	8	1*200, 1*60	Semi-mature twin trunk at 1m tree with a broad 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	2	On site	1.5	3
25	<i>Eriobotrya japonica</i>	Loquat	6	4	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.	Env. Pest Species	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	1.5	2.5
26	<i>Cyathea sp.</i>	Treeferns	5	1	240	Mature single trunk tree with an upright columnar form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	5%	None evident	3	On site	1	2
27	<i>Jacaranda mimosifolia</i>	Jacaranda	9	8	500	Mature multi trunk at 2m tree with a broad elliptical form; a slight trunk lean to the east and majority of canopy and branch development is towards the south east. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree displays some signs of instability being located on rock wall and its branch attachment appears fair with moderate bark inclusion at 2m. The tree is considered to be in moderate health and displays fair vigour.	Good	10%	Decay is evident in base and branch stubs	3	On site	2.5	5
28	<i>Ficus macrophylla</i>	Moreton Bay Fig	10	14	600	Mature single trunk tree with a broad spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	Fungal growth on deadwood/stubs. Minor foliar damage	1	On site	3	6
29	<i>Pistacia chinensis</i>	Pistacia	9	6	300	Mature twin trunk at 5m tree with an upright 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 poor with severe inclusion at 5m. The tree is considered to be in moderate health and displays fair vigour.	Poor	15%	Ivy growing into in upper canopy	3	On site	2	4
30	<i>Washingtonia robusta</i>	Cotton palm	12	3	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.	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%	None evident	2	On adjacent allotment	1	1.5
31	<i>Jacaranda mimosifolia</i>	Jacaranda	13	11	1*200, 2*300	Mature twin trunk at ground level 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 displays some signs of instability with a basal bark inclusion and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Good	10%	None evident	2	On site	2.5	5
32	<i>Cinnamomum camphora</i>	Camphor Laurel	7	5	1*200, 1*60	Semi-mature twin trunk at ground level tree with an upright 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 fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	<5%	None evident	2	On site	1.5	2.5
33	<i>Michelia figo</i>	Port Wine Magnolia	5	3	5*100	Mature multi trunk at ground level tree with a broad 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.	Good	5%	None evident	2	On site	1.5	3
34	<i>Leptospermum petersonii</i>	Lemon-Scented Tea Tree	7	6	1*200, 2*250	Over mature multi trunk at ground level 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 stability is suspect with the central previously failed in the past and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour.	Poor	5%	None evident	Unstable	On site	1.5	3
35	<i>Acer palmatum</i>	Japanese Maple	6	6	1*200, 1*300	Mature twin trunk at 0.2m 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.	Poor	5%	None evident	2	On site	2.5	3
36	<i>Viburnum sp.</i>	-	6	6	1*300, 1*100	Over 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 fair. The tree is considered to be in moderate health and displays fair vigour.	Good	15%	The tree has a cavity at 1.2m on the western side of the tree.	4	On site	1.5	3
37	<i>Lagerstroemia indica</i>	Crepe Myrtle	7	6	3*100-200	Semi-mature multi trunk tree with a broad spreading form; a slight trunk lean to the east 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 good vigour.	Deciduous None	<5%	None evident	2	On site	1.5	3
38	<i>Jacaranda mimosifolia</i>	Jacaranda	13	9	400	Mature twin trunk at 2.5m tree with an upright elliptical form; a slight trunk lean to the north west and balanced canopy and branch development. Lower limbs of the tree have been pruned to 3m.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Good	15%	Old wound is evident on northern side of tree at 2.5m adjacent temporary carport which is calling well.	2	On site	2.5	4
39	<i>Melaleuca quinquenervia</i>	Paperbark	14	5	400	Mature twin trunk at 1.5m tree with an upright elliptical form; a distinct trunk lean to the west and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree stability is suspect being located on edge of an embankment and its branch attachment appears fair. The tree is considered to be in poor health and displays poor vigour.	Poor	30%	None evident	Unstable	On site	2	4
40	<i>Melaleuca quinquenervia</i>	Paperbark	13	4	250	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 being located on edge of embankment and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Poor	30%	None evident	3	On site	2	3
41	<i>Pittosporum undulatum</i>	Sweet Pittosporum	7	5	1*200, 1*100	Mature twin trunk at ground level tree with a broad spreading 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.	Low L/scape Sig.	The tree displays some signs of instability being located on the edge of embankment and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	10%	None evident	4	On site	1.5	3
43	<i>Pittosporum undulatum</i>	Sweet Pittosporum	8	8	300	Mature twin trunk at 2m tree with a broad spreading form; a distinct trunk lean to the west and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree displays some signs of instability being located in rock shelf and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Good	15%	None evident	Unstable	On site	2	3
44	<i>Jacaranda mimosifolia</i>	Jacaranda	11	8	1*400, 2*300, 1*100	Mature multi trunk at 1m 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	15%	Monstera growing on the trunk to 4m and two main leaders dead	2	On site	2.5	5
45	<i>Eucalyptus saligna</i>	Sydney Blue Gum	25	20	750	Mature single trunk tree with an upright forest form; a slight trunk lean to the south east and balanced canopy and branch development. No evidence of significant branch pruning.	Significant L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On adjacent allotment	5	10

(table continued over)

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On / off site	Critical Root Zone Radius (m)	Primary Root Zone Radius (m)
46	<i>Eucalyptus saligna</i>	Sydney Blue Gum	25	15	750	Mature single trunk tree with an upright forest form; a slight trunk lean to the north and balanced canopy and branch development. No evidence of significant branch pruning.	Significant L/scape Sig.	The tree stability is suspect with a large wound evident at 5m on the north eastern side of the tree and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	30%	large sections of dead wood and substantial trunk wound at 5m	Unstable	On site	5	10
47	<i>Glochidion ferdinandi</i>	Cheese Tree	8	4	2'150	Semi-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.	Low L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	5%	None evident	2	On site	1.5	3
48	<i>Eucalyptus saligna</i>	Sydney Blue Gum	10	5	200	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	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	3
49	<i>Archontophoenix sp.</i>	Alexandra Palm	8	3	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.	Fair	<5%	None evident	2 / 5	On site	1	2
50	<i>Howea forsteriana</i>	Kentia Palm	9	4	200	Mature single trunk tree with an elevated spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2 / 5	On site	1	1.5
51	<i>Archontophoenix sp.</i>	Alexandra Palm	11	5	300	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 sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2 / 5	On site	1	2
52	<i>Cyathea cooperi</i>	Straw Treefern	5	2	200	Mature single trunk tree with an elevated spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Good	5%	None evident	3	On site	1	1.5
53	<i>Eucalyptus saligna</i>	Sydney Blue Gum	11	9	400	Mature twin trunk at 6m tree with a upright spreading form; an upright trunk/s and majority of canopy and branch development is towards the north east. Lower limbs of the tree have been pruned to 6m.	Moderate L/scape Sig.	The tree stability is suspect and its branch attachment appears poor with the two remaining leaders located on outer bark. The tree is considered to be in poor health and displays poor vigour - main leader on western side previously failed.	Poor	15%	Evidence of psyllid foliage damage and Bromeliads growing around the tree to 4m. Damage to the trunk caused by the surrounding deck.	Unstable	On site	3	5
54	<i>Populus sp.</i>	Poplar	28	14	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.	Significant L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in good health despite epicormic growth and displays good vigour despite evidence of previous limb failure.	Fair	30%	None evident	3	On site	3	5
55	<i>Acacia decurrens</i>	Black Wattle	16	5	250	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Good	5%	None evident	3	On site	2	3
56	<i>Acacia decurrens</i>	Black Wattle	14	3	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.	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	3	On site	2	3
57	<i>Platanus sp.</i>	Plane Tree	22	13	500	Mature twin trunk at 5m tree with an upright spreading form; a slight trunk lean to the west 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%	Ivy to 2m	2	On site	3	6
58	<i>Grevillea robusta</i>	Silky Oak	13	7	200	Semi-mature single trunk tree with a tall pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	15%	Ivy to 10m	3	On site	2	3
59	<i>Ficus sp.</i>	Fig	8	3	160	Immature 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	<5%	Mealy bug	1	On site	2	3
60	<i>Grevillea robusta</i>	Silky Oak	18	7	300	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%	Ivy growing on the tree to 10m.	2	On site	2	4
61	<i>Melaleuca quinquenervia</i>	Paperbark	15	5	260	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%	None evident	2	On site	2	4
62	<i>Archontophoenix sp.</i>	Alexandra Palm	9	4	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.	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 / 5	On site	1	2
63	<i>Archontophoenix sp.</i>	Alexandra Palm	9	3	200	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2 / 5	On site	1	2
64	<i>Grevillea robusta</i>	Silky Oak	10	4	200	Semi-mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	10%	None evident	3	On site	2	3
65	<i>Corymbia maculata</i>	Spotted Gum	10	5	160	Semi-mature single trunk tree with an upright spreading form; a slight trunk lean to the south west and majority of canopy and branch development is towards the south west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Poor	5%	None evident	2	On site	2	3
66	<i>Acacia decurrens</i>	Black Wattle	10	4	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.	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	<5%	None evident	2	On site	2	3
67	<i>Acacia sp.</i>	Wattle/ Acacia	10	5	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.	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.	Poor	<5%	Damage to the base of the trunk by insects	Unstable	On site	2	3
68	<i>Acacia sp.</i>	Wattle/ Acacia	12	6	240	Mature single trunk tree with an upright form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable despite on edge of wall and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	4	On site	2	3
69	<i>Acacia sp.</i>	Wattle/ Acacia	8	7	300	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 despite on edge of embankment and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Good	<5%	None evident	4	On site	2	3
70	<i>Unidentified Dead Tree</i>	Dead Tree	12	8	300	Dead single trunk tree with an upright form; a distinct trunk lean to the west 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 in dead and displays no signs of any vigour.	None	100%	None evident	Unstable	On site	2	3
71	<i>Eucalyptus microcorys</i>	Tallow-wood	18	6	350	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	1	On site	2	4
72	<i>Eucalyptus saligna</i>	Sydney Blue Gum	20	6	240	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	5%	None evident	1	On site	2.5	3
73	<i>Eucalyptus sp.</i>	Unidentified eucalypt species	20	10	350	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree stability is suspect and its branch attachment appears poor and brittle. The tree is considered to be in poor health and displays poor vigour.	Fair	90%	Ivy to 7m	Unstable	On site	2	4
74	<i>Eucalyptus saligna</i>	Sydney Blue Gum	15	6	200	Semi-mature single trunk tree with an upright forest 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 moderate health and displays fair vigour.	Fair	5%	None evident	1	On site	3	5
75	<i>Brachychiton acerifolius</i>	Illawarra Flame Tree	11	6	250	Semi-mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	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 adjacent allotment	2	4
76	<i>Allocasuarina sp.</i>		15	7	400	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	Ivy to 8m	2	On site	2	4
77	<i>Allocasuarina sp.</i>		20	9	500	Mature twin trunk at 7m tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	Ivy growing in the tree	2	On site	3	5
78	<i>Ficus microcarpa</i>	Weeping Fig	9	5	250	Semi-mature single trunk tree with an upright spreading form; an upright trunk/s and majority of canopy and branch development is towards the north west. Lower limbs of the tree have been pruned to 4m.	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	5%	None evident	1	On site	2	4
79	<i>Melaleuca quinquenervia</i>	Paperbark	12	5	300	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	10%	Ivy to 5m	2	On site	2	4
80	<i>Cupressus sp.</i>	Cypress	12	5	300	Mature multi trunk at 3.5m tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree displays some signs of instability with bark inclusions evident and its branch attachment appears poor with moderate bark inclusions. The tree is considered to be in moderate health and displays fair vigour.	Good	15%	None evident	3	On site	2	3

(table continued over)



prepared by  
**melanie howden**

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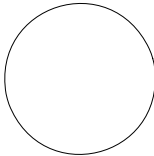
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**impact of development on trees  
- proposed private hospital,  
1-8 nield avenue, greenwich**

drawing title  
**arboreal cultural assessment - data sheet C**

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On / off site	Critical Root Zone Radius (m)	Primary Root Zone Radius (m)
81	<i>Cupressus sp.</i>	Cypress	10	4	300	Mature multi trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. Appears that the central leader has been pruned/removed at 2m.	Low L/scape Sig.	The tree appears stable and its branch attachment appears poor with bark inclusions throughout. The tree is considered to be in poor health and displays poor vigour.	Poor	30%	None evident	4	On site	2	3
82	<i>Cupressus sp.</i>	Cypress	8	3	>10*50-150	Mature multi trunk at 0.5m tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree displays some signs of instability with bark inclusions evident and its branch attachment appears poor. The tree is considered to be in moderate health and displays fair vigour.	Fair	15%	Cissus vine growing in the canopy	4	On site	2	3
83	<i>Cupressus sempervirens</i>	Italian Cypress	10	3	>10*100	Mature multi trunk at ground level tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears poor. The tree is considered to be in moderate health and displays fair vigour.	Good	15%	None evident	4	On site	2.5	4
84	<i>Cupressus sp.</i>	Cypress	5	3	>5*100	Semi-mature multi trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree displays some signs of instability and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour - central leader has died.	Fair	50%	None evident	Unstable	On site	2	3
85	<i>Camellia sasanqua</i>	Camellia	6	3	2*100	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.	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	3	On site	1.5	2
86	<i>Archontophoenix sp.</i>	Alexandra Palm	11	4	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%	Ivy growing on the trunk to 6m	2	On site	1	1.5
87	<i>Ficus rubiginosa</i>	Port Jackson Fig/Rusty Fig	15	13	400	Mature twin trunk at 5m tree with a broad spreading form; a slight trunk lean to the north west and balanced canopy and branch development. Lower limbs of the tree have been pruned to 4m on eastern side.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Good	5%	None evident	1	On site	3	6
88	<i>Howea forsteriana</i>	Kentia Palm	8	4	200	Mature single trunk tree with an elevated spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	5%	Vines growing into the canopy.	3	On site	1	1.5
89	<i>Eucalyptus saligna</i>	Sydney Blue Gum	25	14	900	Over mature single trunk tree with a tall forest form; a distinct trunk lean to the north west and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning. Previously the tree was a twin trunk specimen.	Significant L/scape Sig.	The tree stability is suspect with a large wound at 1.5m on southern side of tree and the previous main leader has failed. The tree's branch attachment appears poor. The tree is considered to be in poor health and displays fair vigour which is predominately epicormic growth.	Fair	35%	Termite activity is evident in the large wound where the previous leaders have failed.	Unstable	On site	5	10
90	<i>Jacaranda mimosifolia</i>	Jacaranda	14	12	450	Mature twin trunk at 2.2m tree with a broad spreading form; an upright trunk/s and balanced canopy and branch development. Evidence of branch pruning on the eastern side of the tree.	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	10%	Bromeliads growing on the tree to 1.5m	2	On site	3	5
91	<i>Howea forsteriana</i>	Kentia Palm	9	4	180	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 sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2 / 5	On site	1	1.5
92	<i>Cedrus deodara</i>	Himalayan Cedar	7	4	200	Semi-mature single trunk tree with an upright pyramidal form; a slight trunk lean to the north and majority of canopy and branch development is towards the north. Lower limbs of the tree have been pruned to 4m.	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 no signs of any vigour with sparse reduced size foliage.	Poor	45%	None evident	4	On site	2	3
93	<i>Glochidion ferdinandi</i>	Cheese Tree	12	10	350	Mature single trunk tree with a broad spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	None evident	2	On site	2	4
94	<i>Howea forsteriana</i>	Kentia Palm	7	3	200	Mature single trunk tree with an elevated spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	2 / 5	On site	1	1.5
95	<i>Howea forsteriana</i>	Kentia Palm	7	3	200	Mature single trunk tree with an elevated spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	2 / 5	On site	1	1.5
96	<i>Eucalyptus microcorys</i>	Tallow-wood	6	4	180	Immature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the south. Lower limbs of the tree have been pruned to 3m on northern side.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	5%	none evident, foliar damage	2	On site	2	3
97	<i>Howea forsteriana</i>	Kentia Palm	6	3	200	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 sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	2 / 5	On site	1	1.5
98	<i>Howea forsteriana</i>	Kentia Palm	6	3	200	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 sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	2 / 5	On site	1	1.5
99	<i>Howea forsteriana</i>	Kentia Palm	6	3	200	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 sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	2 / 5	On site	1	1.5
100	<i>Howea forsteriana</i>	Kentia Palm	6	3	200	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 sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	2 / 5	On site	1	1.5
101	<i>Howea forsteriana</i>	Kentia Palm	6	3	200	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 sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	2 / 5	On site	1	1.5
102	<i>Camellia sasanqua</i>	Camellia	5	3	3*100	Mature multi trunk at ground level tree with an upright 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.	Good	5%	None evident	2	On site	1.5	2
103	<i>Rothmannia globosa</i>	-	6	5	2*200, 1*100	Mature multi trunk at 1.2m tree with a broad spreading form; a slight trunk lean to the north west and balanced canopy and branch development. Lower limbs of the tree have been pruned to 2m on western side.	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.	Good	5%	None evident	2	On site	2	3
104	<i>Eucalyptus sp.</i>	Unidentified eucalypt species	20	15	500	Mature single trunk tree with an upright forest form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Significant 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%	Extensive wound at 6m on west side, bracket fungi, wound 1m in length	4	On adjacent allotment	3	5
105	<i>Cupressus sempervirens</i>	Italian Cypress	9	2	300	Over mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	20%	None evident	4	On site	2	3
106	<i>Cedrus deodara</i>	Himalayan Cedar	14	9	2*300	Mature twin trunk at 1.4m tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair with moderate inclusion at 1.4m. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On site	3	6
107	<i>Camellia sasanqua</i>	Camellia	7	6	1*200, 1*250, 2*60	Mature multi trunk at ground level tree with a broad 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	2	On site	1.5	3
108	<i>Cupressus sp.</i>	Cypress	9	3	200	Semi-mature single trunk tree with an upright pyramidal form; a slight trunk lean to the north and majority of canopy and branch development is towards the south west. Lower limbs of the tree have been pruned to 3m.	Low L/scape Sig.	The tree appears stable and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour.	Poor	80%	None evident	4	On site	2	3
109	<i>Cupressus sempervirens</i>	Italian Cypress	10	2	300	Mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	None evident	3	On site	2	3
110	<i>Lagerstroemia indica</i>	Crepe Myrtle	8	6	5*180	Mature multi trunk tree with a broad spreading form; an upright trunk/s and balanced canopy and branch development. Appears that the central leaders have been pruned at 2.5m.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in good health and displays good vigour.	Deciduous None	<5%	None evident	2	On site	1.5	3
111	<i>Cupressus sp.</i>	Cypress	5	2	160	Semi-mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	5%	None evident	3	On site	1.5	2
112	<i>Cupressus sp.</i>	Cypress	8	5	5*180	Mature multi trunk at 1.2m 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 displays some signs of instability with bark inclusions evident and its branch attachment appears poor with moderate inclusions. The tree is considered to be in moderate health and displays good vigour.	Good	5%	None evident	3	On site	1.5	3
113	<i>Acer palmatum</i>	Japanese Maple	4	5	8*100	Over mature single trunk tree with a broad spreading form; an upright trunk/s and balanced canopy and branch development. Lower limbs of the tree have been pruned to 2m.	Low L/scape Sig.	The tree stability is suspect and its branch attachment appears fair. The tree is considered to be in dead and displays no signs of any vigour.	Deciduous None	100%	Evidence of bark cracking and peeling.	Unstable	On site	1.5	3
114	<i>Cupressus sempervirens</i>	Italian Cypress	13	4	250	Mature multi trunk at 1.8m tree with an upright pyramidal form; an upright trunk/s and majority of canopy and branch development is towards the north west. Lower limbs of the tree have been pruned to 2m.	Moderate L/scape Sig.	The tree displays some signs of instability with bark inclusions and its branch attachment appears poor. The tree is considered to be in moderate health and displays fair vigour with dead sections throughout.	Fair	15%	None evident	4	On site	1.5	2.5
115	<i>Cupressus sempervirens</i>	Italian Cypress	13	2	1*300, 2*100	Mature multi trunk tree with an upright pyramidal form; an upright trunk/s and majority of canopy and branch development is towards the west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree displays some signs of instability with bark inclusions and its branch attachment appears poor with bark inclusions. The tree is considered to be in moderate health and displays poor vigour.	Fair	20%	None evident	4	On site	2	4

(table continued over)

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	Description	Environmental / Landscape Significance	Condition	Foliage Condition	% Canopy Dead Wood	Evidence of Pests, Disease, Cavity, Bracket Fungi	SULE	On / off site	Critical Root Zone Radius (m)	Primary Root Zone Radius (m)
116	<i>Jacaranda mimosifolia</i>	Jacaranda	15	11	1*100, 1*400, 1*450	Mature multi trunk tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. Lower limbs of the tree have been pruned to 3m.	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 - easier to assess if in leaf.	Good	10%	None evident	2	On site	3	5
117	<i>Jacaranda mimosifolia</i>	Jacaranda	16	13	2*400	Mature twin trunk at 0.3m tree with an upright spreading form; a distinct trunk lean to the north and majority of canopy and branch development is towards the north west. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in good health and displays good vigour though easier to assess if in foliage.	Good	10%	None evident	2	On site	3	5
118	<i>Schefflera actinophylla</i>	Umbrella Tree	12	4	>10" 50-100	Mature multi trunk at ground level tree with an upright elliptical form; an upright trunk/s and majority of canopy and branch development is towards the west. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree displays some signs of instability with bark inclusions evident and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour.	Good	10%	None evident	4	On site	2	4
119	<i>Schefflera actinophylla</i>	Umbrella Tree	9	5	2*100, 1*300	Mature twin trunk at ground level 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 displays some signs of instability and its branch attachment appears poor with a basal bark inclusion. The tree is considered to be in moderate health and displays fair vigour.	Poor	10%	None evident	4	On site	2	4
120	<i>Schefflera actinophylla</i>	Umbrella Tree	9	5	4*100, 1*200	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 displays some signs of instability with moderate bark inclusions evident and its branch attachment appears poor. The tree is considered to be in moderate health and displays fair vigour.	Good	10%	None evident	4	On site	2	4
121	<i>Eucalyptus sp.</i>	Unidentified eucalypt species	24	10	550	Semi-mature single trunk tree with an upright forest form; an upright trunk/s and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	10%	None evident	1	On site	5	9
122	<i>Liquidambar styraciflua</i>	Sweet Gum	22	13	500	Mature single trunk tree with an upright elliptical form; an upright trunk/s and majority of canopy and branch development is towards the north, south & west. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Deciduous None	5%	None evident	1	On site	4	6
123	<i>Glochidion ferdinandi</i>	Cheese Tree	9	6	240	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 adjacent allotment	2	3
124	<i>Arecastum romanzoffianum</i>	Cocos Palm	9	4	250	Mature single trunk tree with an elevated spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	2	On adjacent allotment	1	1.5
125	<i>Eucalyptus saligna</i>	Sydney Blue Gum	22	14	750	Mature single trunk tree with an upright forest form; a slight trunk lean to the north and majority of canopy and branch development is towards the north east. No evidence of significant branch pruning.	Significant 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	15%	Ivy on lower trunk and large sections of dead wood	3	On adjacent allotment	5	10
126	<i>Liquidambar styraciflua</i>	Sweet Gum	18	15	640	Mature multi trunk at 2.5m tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	High L/scape Sig.	The tree appears stable and its branch attachment appears fair. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On adjacent allotment	3.5	6.5
127	<i>Grevillea robusta</i>	Silky Oak	7	3	100	Semi-mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	1	On site	1.5	2
128	<i>Grevillea robusta</i>	Silky Oak	16	8	350	Mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	2	On site	2.5	4
129	<i>Citharexylum spinosum</i>	Fiddlewood	13	10	300	Mature single trunk tree with an upright spreading form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	1	On site	2	3
130	<i>Jacaranda mimosifolia</i>	Jacaranda	14	12	5*250-300	Mature multi trunk at ground level tree with a broad spreading form; an upright trunk/s and balanced canopy and branch development. Lower limbs of the tree have been pruned to 3m. Tree may have previously been removed to ground level.	High L/scape Sig.	The tree displays some signs of instability with bark inclusions evident and its branch attachment appears poor. The tree is considered to be in moderate health and displays fair vigour.	Good	<5%	Minor decay evident in pruning stubs	2	On site	3	5
131	<i>Cupressus sempervirens</i>	Italian Cypress	16	5	400	Mature multi trunk at 3m tree with an upright pyramidal form; an upright trunk/s and majority of canopy and branch development is towards the west. Lower limbs of the tree have been pruned to 3m.	Moderate L/scape Sig.	The tree appears stable and its branch attachment appears poor with severe bark inclusions. The tree is considered to be in moderate health and displays fair vigour.	Good	10%	None evident	3	On site	2	4
132	<i>Callitris sp.</i>	Pine	9	3	200	Semi-mature twin trunk at 4m tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears poor with moderate bark inclusion at 4m. The tree is considered to be in moderate health and displays fair vigour.	Good	<5%	None evident	3	On site	1.5	2
133	<i>Magnolia soulangeana</i>	Magnolia	6	5	1*60, 2*100	Mature multi trunk at ground level tree with a broad spreading form; an upright trunk/s and balanced canopy and branch development. Appears that the central leader has been pruned/removed at 1m.	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.	Deciduous None	<5%	None evident	2	On site	1.5	3
134	<i>Cupressus sp.</i>	Cypress	9	3	200	Semi-mature twin trunk at 5m tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears poor with bark inclusion at 4m. The tree is considered to be in moderate health and displays fair vigour.	Fair	5%	None evident	4	On site	1.5	2
135	<i>Cotoneaster sp.</i>	Cotoneaster	5	4	2*200, 1*100	Over mature multi trunk at ground level tree with a broad spreading form; an upright trunk/s and majority of canopy and branch development is towards the west. Lower limbs of the tree have been pruned to 2m.	Env. Pest Species	The tree displays some signs of instability with evidence of decay in the base and its branch attachment appears poor. The tree is considered to be in moderate health and displays fair vigour.	Good	10%	decay in base	4	On site	1.5	3
136	<i>Camellia sasanqua</i>	Camellia	8	6	2*240	Mature twin trunk at 0.5m 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 good health and displays good vigour.	Good	5%	Minor decay evident in pruning stubs	2	On site	2	4
137	<i>Cupressus sp.</i>	Cypress	11	5	2*100, 1*200	Semi-mature multi trunk at 1.2m tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree appears stable and its branch attachment appears fair with minor inclusion. The tree is considered to be in moderate health and displays fair vigour.	Fair	30%	None evident	3	On site	2	4
138	<i>Cupressus sp.</i>	Cypress	11	3	400	Over mature multi trunk at 2.5m tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Low L/scape Sig.	The tree stability is suspect and its branch attachment appears poor with severe bark inclusions throughout. The tree is considered to be in moderate health and displays fair vigour.	Good	10%	None evident	4	On site	2	4
139	<i>Camellia sasanqua</i>	Camellia	5	4	200	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	5%	None evident	2	On site	2	4
140	<i>Cupressus sp.</i>	Cypress	11	4	1*200, 1*300	Mature twin trunk at 1m tree with an upright pyramidal form; an upright trunk/s and balanced canopy and branch development. No evidence of significant branch pruning.	Moderate L/scape Sig.	The tree displays some signs of instability with severe bark inclusions and its branch attachment appears severe bark inclusion. The tree is considered to be in moderate health and displays fair vigour.	Fair	5%	None evident	3	On site	2	4
141	<i>Cupressus sp.</i>	Cypress	9	3	200	Semi-mature single trunk tree with an upright pyramidal form; an upright trunk/s and balanced canopy and majority of canopy and branch development is towards the south east. Lower limbs of the tree have been pruned to 1.5m.	Low L/scape Sig.	The tree appears stable and its branch attachment appears sound. The tree is considered to be in poor health and displays poor vigour.	Fair	25%	Ivy growing on the tree to 5m	3	On site	1.5	2
142	<i>Cupressus sp.</i>	Cypress	8	4	1*100, 1*200	Semi-mature multi trunk tree with an upright elliptical form; a slight trunk lean to the south east and majority of canopy and branch development is towards the south east. Lower limbs of the tree have been pruned to 1.5m.	Low L/scape Sig.	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be in moderate health and displays fair vigour.	Fair	20%	None evident	Unstable	On site	2	3



prepared by  
**melanie howden**

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date  
**09/08/08**

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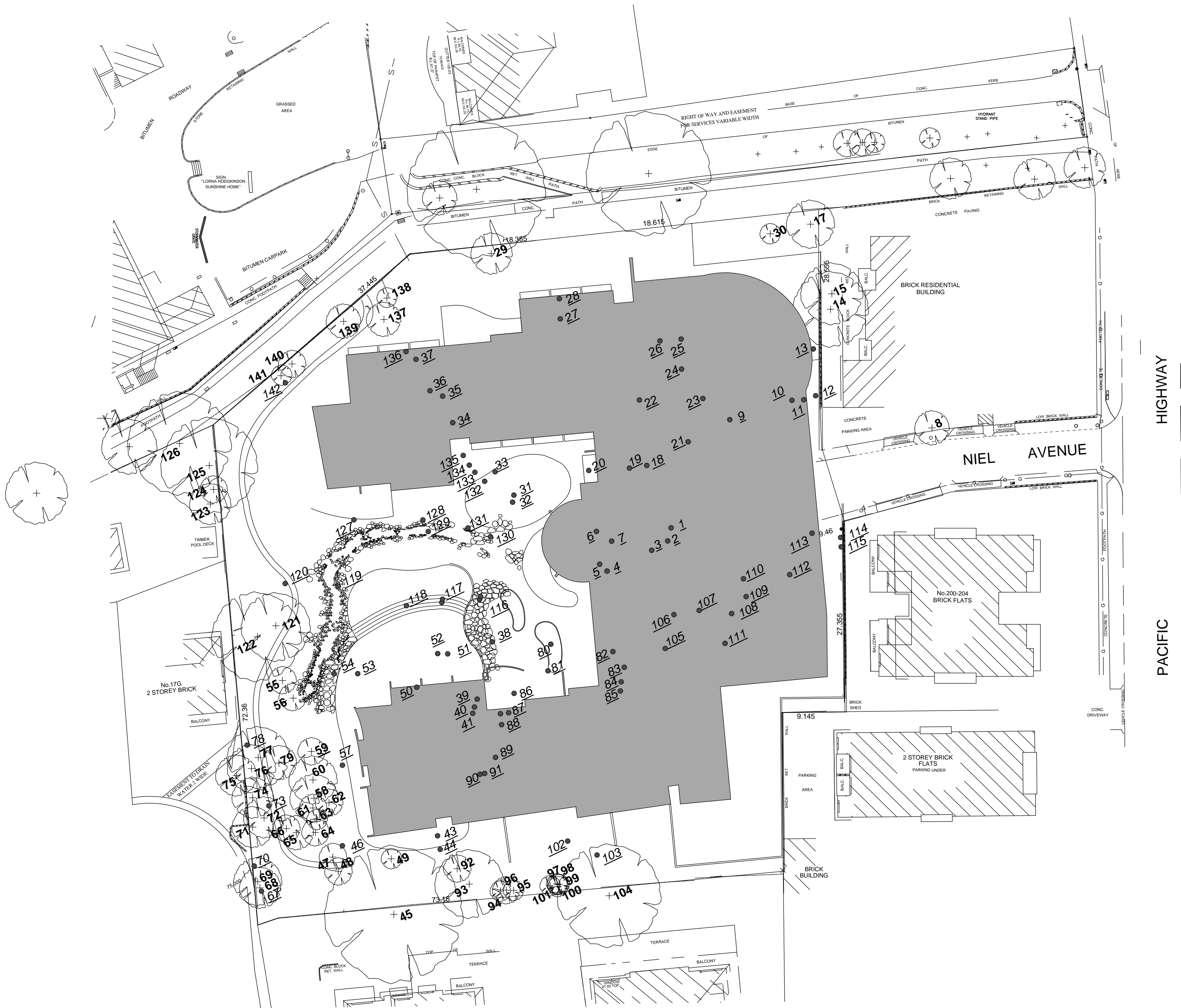
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**7 11**

project  
**impact of development on trees  
- proposed private hospital,  
1-8 nield avenue, greenwich**

drawing title  
**arbicultural assessment - data sheet E**





# legend

- trees to be retained
- trees to be removed

This plan is based upon a portion of the plan:

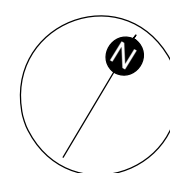
PLAN SHOWING DETAIL, LEVELS & BOUNDARIES  
"THE LORNA HODGKINSON SUNSHINE HOME"  
No.212 PACIFIC HIGHWAY, Ref No. 70200,  
Date 10/7/2003, Revision C, 23/09/2005 (Rygate &  
Company Pty. Limited, York Street, Sydney, NSW)

PROPOSED RESIDENTIAL CARE FACILITY  
1-8 NIELD AVENUE, GREENWICH, Dec 2006,  
Issue H, 09/09/08. (Marchese & Partners  
International, North Sydney, NSW).

Nine (9) trees not identified on the survey have also  
been considered in this report and have been added  
to this following plan. These trees have been included  
as they are of a size / dimension that is covered by  
the Council's Tree Preservation Order and require  
assessment.

These additional trees are numbered 17, 30, 49, 50, 64,  
123, 124, 125 & 127 and their locations have been  
approximately plotted from surveyed features.

**WATERBROOK CARE**
  
GREENWICH



prepared by  
**melanie howden**

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**1: 400**

date  
**09/10/08**

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sheet of  
**8 11**

project  
**impact of development on trees  
 - proposed private hospital,  
 1-8 nield avenue, greenwich**

drawing title  
**proposed development - tree  
 removal & retention**



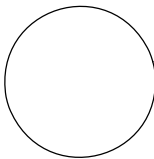
Tree No	Genus Species	Common Name	DBH (mm)	Environmental / Landscape Significance	SULE	Primary Root Zone Radius (m)	Critical Root Zone Radius (m)	Adjacent Works	Influence on Tree	On / off site	Plan Status
1	<i>Eucalyptus saligna</i>	Sydney Blue Gum	1400	Significant L/scape Sig.	Unstable	12	6	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
2	<i>Melaleuca linariifolia</i>	Snow-in-Summer	200	Low L/scape Sig.	4	2	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
3	<i>Melaleuca bracteata</i>	Revolution Gold	2*200	Low L/scape Sig.	3	3	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
4	<i>Eucalyptus sp.</i>		600	High L/scape Sig.	2	6	3	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
5	<i>Melaleuca bracteata</i>	Revolution Gold	200	Low L/scape Sig.	3	2	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
6	<i>Melaleuca sp.</i>		300	Low L/scape Sig.	3	3	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
7	<i>Eucalyptus sp.</i>		250	Low L/scape Sig.	4	2.5	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
8	<i>Populus nigra 'italica'</i>	Black Lombardy Poplar	500	Moderate L/scape Sig.	2	4	2	No proposed works within the tree's canopy spread or primary root zone.	Negligible impact with appropriate tree protection measures.	On adjacent allotment	Retained with General Tree protection measures
9	<i>Jacaranda mimosifolia</i>	Jacaranda	600	Moderate L/scape Sig.	2	5	3	The basement carpark spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
10	<i>Schefflera actinophylla</i>	Umbrella Tree	250	Low L/scape Sig.	3	2.5	1.5	The basement carpark spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
11	<i>Howea forsteriana</i>	Kentia Palm	200	Moderate L/scape Sig.	1 / 5	1.5	1	The basement carpark spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
12	<i>Magnolia soulangeana</i>	Magnolia	1*200, 1*300	Moderate L/scape Sig.	2	3	2	The basement carpark is within 1.2m (west) of the tree.	Excavation is likely to involve severance of significant tree roots resulting in the decline of the tree and/or rendering it unstable.	On site	To be Removed
13	<i>Howea forsteriana</i>	Kentia Palm	200	Low L/scape Sig.	4	1.5	1	The basement carpark is within 0.2m (south west) of the tree.	Excavation is likely to involve severance of significant tree roots resulting in the decline of the tree and/or rendering it unstable.	On site	To be Removed
14	<i>Populus sp.</i>	Poplar	500	High L/scape Sig.	Unstable	5	2.5	The proposed driveway is within 4.2m (south west) of the tree.	No significant impact with appropriate tree protection measures.	On adjacent allotment	Retained with General Tree protection measures
15	<i>Populus sp.</i>	Poplar	500	High L/scape Sig.	3	5	2.5	The proposed driveway is within 5.4m (south west) of the tree.	No significant impact with appropriate tree protection measures.	On adjacent allotment	Retained with General Tree protection measures
17	<i>Jacaranda mimosifolia</i>	Jacaranda	100	Moderate L/scape Sig.	2	2	1.5	No proposed works within the tree's canopy spread or primary root zone.	Negligible impact with appropriate tree protection measures.	On adjacent allotment	Retained with General Tree protection measures
18	<i>Cupressus sp.</i>	Cypress	2*200, 2*100, 3*60	Low L/scape Sig.	4	4	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
19	<i>Cupressus sp.</i>	Cypress	1*300, >10, 100-200	Moderate L/scape Sig.	Unstable	4	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
20	<i>Cupressus sempervirens</i>	Italian Cypress	240	Low L/scape Sig.	3	3	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
21	<i>Magnolia soulangeana</i>	Magnolia	4*200	Moderate L/scape Sig.	2	3	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
22	<i>Prunus persica</i>	Peach	200	Low L/scape Sig.	4	2	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
23	<i>Howea forsteriana</i>	Kentia Palm	200	Moderate L/scape Sig.	2 / 5	1.5	1	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
24	<i>Eriobotrya japonica</i>	Loquat	1*200, 1*60	Moderate L/scape Sig.	2	3	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
25	<i>Eriobotrya japonica</i>	Loquat	200	Env. Pest Species	2	2.5	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
26	<i>Cyathea sp.</i>	Treeferns	240	Low L/scape Sig.	3	2	1	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
27	<i>Jacaranda mimosifolia</i>	Jacaranda	500	Moderate L/scape Sig.	3	5	2.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
28	<i>Ficus macrophylla</i>	Moreton Bay Fig	600	High L/scape Sig.	1	6	3	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
29	<i>Pistacia chinensis</i>	Pistacia	300	Moderate L/scape Sig.	3	4	2	The proposed building footprint is within 5.0m of the tree with external landscaping surrounding the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
30	<i>Washingtonia robusta</i>	Cotton palm	200	Moderate L/scape Sig.	2	1.5	1	No proposed works within the tree's canopy spread or primary root zone.	Negligible impact with appropriate tree protection measures.	On adjacent allotment	Retained with General Tree protection measures
31	<i>Jacaranda mimosifolia</i>	Jacaranda	1*200, 2*300	Moderate L/scape Sig.	2	5	2.5	The proposed landscape design levels require existing levels to be lowered surrounding the tree.	Changes to soil levels are to be excavated affecting the tree's root system.	On site	To be Removed
32	<i>Cinnamomum camphora</i>	Camphor Laurel	1*200, 1*60	Low L/scape Sig.	2	2.5	1.5	The proposed landscape design levels require existing levels to be lowered surrounding the tree.	Changes to soil levels are to be excavated affecting the tree's root system.	On site	To be Removed
33	<i>Michelia ligo</i>	Port Wine Magnolia	5*100	Low L/scape Sig.	2	3	1.5	The proposed landscape design levels require existing levels to be lowered surrounding the tree.	Changes to soil levels are to be excavated affecting the tree's root system.	On site	To be Removed
34	<i>Leptospermum petersonii</i>	Lemon-Scented Tea Tree	1*200, 2*250	Low L/scape Sig.	Unstable	3	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
35	<i>Acer palmatum</i>	Japanese Maple	1*200, 1*300	Low L/scape Sig.	2	3	2.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
36	<i>Viburnum sp.</i>	-	1*300, 1*100	Low L/scape Sig.	4	3	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
37	<i>Lagerstroemia indica</i>	Crepe Myrtle	3*100-200	Low L/scape Sig.	2	3	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
38	<i>Jacaranda mimosifolia</i>	Jacaranda	400	Moderate L/scape Sig.	2	4	2.5	The proposed landscape levels require excavation or fill material surrounding the tree.	Changes to soil levels are to be excavated affecting the tree's root system.	On site	To be Removed
39	<i>Melaleuca quinquenervia</i>	Paperbark	400	Moderate L/scape Sig.	Unstable	4	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
40	<i>Melaleuca quinquenervia</i>	Paperbark	250	Low L/scape Sig.	3	3	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
41	<i>Pittosporum undulatum</i>	Sweet Pittosporum	1*200, 1*100	Low L/scape Sig.	4	3	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
43	<i>Pittosporum undulatum</i>	Sweet Pittosporum	300	Moderate L/scape Sig.	Unstable	3	2	The proposed landscape design levels require existing levels to be lowered surrounding the tree.	Changes to soil levels are to be excavating affecting the tree's root system.	On site	To be Removed
44	<i>Jacaranda mimosifolia</i>	Jacaranda	1*400, 2*300, 1*100	Moderate L/scape Sig.	2	5	2.5	The proposed landscape design levels require existing levels to be lowered surrounding the tree.	Changes to soil levels are to be excavated affecting the tree's root system.	On site	To be Removed

Tree No	Genus Species	Common Name	DBH (mm)	Environmental / Landscape Significance	SULE	Primary Root Zone Radius (m)	Critical Root Zone Radius (m)	Adjacent Works	Influence on Tree	On / off site	Plan Status
45	<i>Eucalyptus saligna</i>	Sydney Blue Gum	750	Significant L/scape Sig.	2	10	5	The proposed retaining wall is within 10.0m (north west) of the tree.	No significant impact with appropriate tree protection measures.	On adjacent allotment	Retained with General Tree protection measures
46	<i>Eucalyptus saligna</i>	Sydney Blue Gum	750	Significant L/scape Sig.	Unstable	10	5	The proposed landscape design levels require existing levels to be raised surrounding the tree.	Changes to soil levels are likely to involve fill material affecting a substantial portion of the tree's root system.	On site	To be Removed
47	<i>Glochidion ferdinandi</i>	Cheese Tree	2*150	Low L/scape Sig.	2	3	1.5	The proposed landscape design levels require fill material within 4.7m (north) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
48	<i>Eucalyptus saligna</i>	Sydney Blue Gum	200	Moderate L/scape Sig.	1	3	2	The proposed landscape design levels require existing levels to be raised within 5.7m (north) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
49	<i>Archontophoenix sp.</i>	Alexandra Palm	200	Low L/scape Sig.	2 / 5	2	1	The proposed landscape design levels require existing levels to be excavated within 1.5m of the palm.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
50	<i>Howea forsteriana</i>	Kentia Palm	200	Low L/scape Sig.	2 / 5	1.5	1	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
51	<i>Archontophoenix sp.</i>	Alexandra Palm	300	Moderate L/scape Sig.	2 / 5	2	1	The proposed landscape terrace area spatially conflicts with the tree's location.	Changes to soil levels are to be excavated affecting the tree's root system.	On site	To be Removed
52	<i>Cyathea cooperi</i>	Straw Treefern	200	Low L/scape Sig.	3	1.5	1	The proposed landscape terrace area spatially conflicts with the tree's location	Changes to soil levels are likely to involve fill material affecting a substantial portion of the tree's root system.	On site	To be Removed
53	<i>Eucalyptus saligna</i>	Sydney Blue Gum	400	Moderate L/scape Sig.	Unstable	5	3	The proposed landscape design levels require existing levels to be raised surrounding the tree.	Changes to soil levels are likely to involve fill material affecting a substantial portion of the tree's root system.	On site	To be Removed
54	<i>Populus sp.</i>	Poplar	500	Significant L/scape Sig.	3	5	3	The proposed landscape design levels require existing levels to be raised surrounding the tree.	Changes to soil levels are likely to involve fill material affecting a substantial portion of the tree's root system.	On site	To be Removed
55	<i>Acacia decurrens</i>	Black Wattle	250	Moderate L/scape Sig.	3	3	2	The proposed drainage line spatially conflicts with the tree's location.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
56	<i>Acacia decurrens</i>	Black Wattle	200	Moderate L/scape Sig.	3	3	2	The proposed drainage line spatially conflicts with the tree's location.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
57	<i>Platanus sp.</i>	Plane Tree	500	High L/scape Sig.	2	6	3	The proposed landscape design levels require existing levels to be raised surrounding the tree.	Changes to soil levels are likely to involve fill material affecting a substantial portion of the tree's root system.	On site	To be Removed
58	<i>Grevillea robusta</i>	Silky Oak	200	Moderate L/scape Sig.	3	3	2	The proposed landscape works require changes to soil levels within 3.5m (north east) of the tree and landscape works surround the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
59	<i>Ficus sp.</i>	Fig	160	Low L/scape Sig.	1	3	2	The proposed landscape works require changes to soil levels within 2.9m (north east) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
60	<i>Grevillea robusta</i>	Silky Oak	300	Moderate L/scape Sig.	2	4	2	The proposed fill batter is within 3.4m (north east) of the tree and landscape works surround the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
61	<i>Melaleuca quinquenervia</i>	Paperbark	260	Moderate L/scape Sig.	2	4	2	The proposed fill batter is within 4.0m (north east) of the tree and landscape works surround the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
62	<i>Archontophoenix sp.</i>	Alexandra Palm	200	Moderate L/scape Sig.	2 / 5	2	1	The proposed landscape design levels require existing levels to be raised surrounding the tree.	No significant impact with appropriate tree protection measures.	On site	To be Removed
63	<i>Archontophoenix sp.</i>	Alexandra Palm	200	Moderate L/scape Sig.	2 / 5	2	1	The proposed fill batter is within 3.5m (north east) of the tree and landscape works surround the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
64	<i>Grevillea robusta</i>	Silky Oak	200	Moderate L/scape Sig.	3	3	2	The proposed fill batter is within 3.6m (north east) of the tree and landscape works surround the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
65	<i>Corymbia maculata</i>	Spotted Gum	160	Moderate L/scape Sig.	2	3	2	No proposed works apart from landscaping within the tree's primary root zone	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
66	<i>Acacia decurrens</i>	Black Wattle	200	Moderate L/scape Sig.	2	3	2	No proposed works apart from landscaping within the tree's primary root zone	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
67	<i>Acacia sp.</i>	Wattle/ Acacia	200	Moderate L/scape Sig.	Unstable	3	2	No proposed works within the tree's primary root zone.	No significant impact however, the tree is considered to be unstable.	On site	To be Removed
68	<i>Acacia sp.</i>	Wattle/ Acacia	240	Moderate L/scape Sig.	4	3	2	No proposed works within the tree's primary root zone.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
69	<i>Acacia sp.</i>	Wattle/ Acacia	300	Moderate L/scape Sig.	4	3	2	No proposed works within the tree's primary root zone.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
70	<i>Unidentified Dead Tree</i>	Dead Tree	300	Low L/scape Sig.	Unstable	3	2	No proposed works within the tree's primary root zone.	No significant impact however, the tree is considered to be unstable.	On site	To be Removed
71	<i>Eucalyptus microcorys</i>	Tallow-wood	350	High L/scape Sig.	1	4	2	No proposed works apart from landscaping within the tree's primary root zone.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
72	<i>Eucalyptus saligna</i>	Sydney Blue Gum	240	Moderate L/scape Sig.	1	3	2.5	No proposed works within the tree's primary root zone.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
73	<i>Eucalyptus sp.</i>		350	High L/scape Sig.	Unstable	4	2	The proposed landscape pathway spatially conflicts with the tree's location.	No significant impact with path relocation however, the tree is considered to be unstable.	On site	To be Removed
74	<i>Eucalyptus saligna</i>	Sydney Blue Gum	200	Moderate L/scape Sig.	1	5	3	No proposed works within the tree's primary root zone.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
75	<i>Brachychiton acerifolius</i>	Illawarra Flame Tree	250	Low L/scape Sig.	2	4	2	No proposed works within the tree's primary root zone.	No significant impact with appropriate tree protection measures.	On adjacent allotment	Retained with General Tree protection measures
76	<i>Allocasuarina sp.</i>		400	High L/scape Sig.	2	4	2	No proposed works within the tree's primary root zone.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures

(table continued next sheet)

Tree No	Genus Species	Common Name	DBH (mm)	Environmental / Landscape Significance	SULE	Primary Root Zone Radius (m)	Critical Root Zone Radius (m)	Adjacent Works	Influence on Tree	On / off site	Plan Status
77	<i>Allocasuarina sp.</i>		500	High L/scape Sig.	2	5	3	No proposed works within the tree's primary root zone.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
78	<i>Ficus microcarpa</i>	Weeping Fig	250	Moderate L/scape Sig.	1	4	2	The proposed 450mm drainage line is within 1m (west) of the tree and the proposed 0.9m junction pit is within 1.2m (north west) of the tree. The proposed 225mm drainage line is within 2.1m (north) of the tree.	Excavation is likely to involve severance of significant tree roots resulting in the decline of the tree and/or rendering it unstable.	On site	To be Removed
79	<i>Melaleuca quinquenervia</i>	Paperbark	300	Moderate L/scape Sig.	2	4	2	No proposed works within the tree's primary root zone.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
80	<i>Cupressus sp.</i>	Cypress	300	Moderate L/scape Sig.	3	3	2	The proposed landscape design levels require existing levels to be lowered surrounding the tree.	Changes to soil levels are to be excavated affecting the tree's root system.	On site	To be Removed
81	<i>Cupressus sp.</i>	Cypress	300	Low L/scape Sig.	4	3	2	The proposed landscape design levels require existing levels to be lowered surrounding the tree.	Changes to soil levels are to be excavated affecting the tree's root system.	On site	To be Removed
82	<i>Cupressus sp.</i>	Cypress	>10*50-150	Moderate L/scape Sig.	4	3	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
83	<i>Cupressus sempervirens</i>	Italian Cypress	>10*100	Low L/scape Sig.	4	4	2.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
84	<i>Cupressus sp.</i>	Cypress	>5*100	Low L/scape Sig.	Unstable	3	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
85	<i>Camellia sasanqua</i>	Camellia	2*100	Low L/scape Sig.	3	2	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
86	<i>Archontophoenix sp.</i>	Alexandra Palm	200	Low L/scape Sig.	2	1.5	1	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
87	<i>Ficus rubiginosa</i>	Port Jackson Fig/Rusty Fig	400	High L/scape Sig.	1	6	3	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
88	<i>Howea forsteriana</i>	Kentia Palm	200	Low L/scape Sig.	3	1.5	1	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
89	<i>Eucalyptus saligna</i>	Sydney Blue Gum	900	Significant L/scape Sig.	Unstable	10	5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
90	<i>Jacaranda mimosifolia</i>	Jacaranda	450	Moderate L/scape Sig.	2	5	3	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
91	<i>Howea forsteriana</i>	Kentia Palm	180	Moderate L/scape Sig.	2 / 5	1.5	1	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
92	<i>Cedrus deodara</i>	Himalayan Cedar	200	Low L/scape Sig.	4	3	2	The proposed retaining wall is within 2.5m (north west) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
93	<i>Glochidion ferdinandi</i>	Cheese Tree	350	High L/scape Sig.	2	4	2	The proposed retaining wall is within 4.1m (north west) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
94	<i>Howea forsteriana</i>	Kentia Palm	200	Low L/scape Sig.	2 / 5	1.5	1	The proposed retaining wall is within 2.6m (north) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
95	<i>Howea forsteriana</i>	Kentia Palm	200	Low L/scape Sig.	2 / 5	1.5	1	The proposed retaining wall is within 2.7m (north) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
96	<i>Eucalyptus microcoys</i>	Tallow-wood	180	Low L/scape Sig.	2	3	2	The proposed retaining wall is within 2.6m (north) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
97	<i>Howea forsteriana</i>	Kentia Palm	200	Moderate L/scape Sig.	2 / 5	1.5	1	The proposed retaining wall is within 2.5m (north) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
98	<i>Howea forsteriana</i>	Kentia Palm	200	Moderate L/scape Sig.	2 / 5	1.5	1	The proposed retaining wall is within 2.5m (north) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
99	<i>Howea forsteriana</i>	Kentia Palm	200	Moderate L/scape Sig.	2 / 5	1.5	1	The proposed retaining wall is within 2.5m (north) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
100	<i>Howea forsteriana</i>	Kentia Palm	200	Moderate L/scape Sig.	2 / 5	1.5	1	The proposed retaining wall is within 2.9m (north) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
101	<i>Howea forsteriana</i>	Kentia Palm	200	Moderate L/scape Sig.	2 / 5	1.5	1	The proposed retaining wall is within 2.6m (north) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
102	<i>Camellia sasanqua</i>	Camellia	3*100	Low L/scape Sig.	2	2	1.5	The proposed landscape design levels require existing levels to be lowered surrounding the tree.	Changes to soil levels are to be excavated affecting the tree's root system.	On site	To be Removed
103	<i>Rothmannia globosa</i>	-	2*200, 1*100	Low L/scape Sig.	2	3	2	The proposed landscape area requires finished levels to be excavated around the tree.	Excavation is likely to involve severance of significant tree roots resulting in the decline of the tree and/or rendering it unstable.	On site	To be Removed
104	<i>Eucalyptus sp.</i>		500	Significant L/scape Sig.	4	5	3	The proposed retaining wall is within 4.9m (north west) of the tree.	No significant impact with appropriate tree protection measures.	On adjacent allotment	Retained with General Tree protection measures
105	<i>Cupressus sempervirens</i>	Italian Cypress	300	Low L/scape Sig.	4	3	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
106	<i>Cedrus deodara</i>	Himalayan Cedar	2*300	Moderate L/scape Sig.	2	6	3	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
107	<i>Camellia sasanqua</i>	Camellia	1*200, 1*250, 2*60	Moderate L/scape Sig.	2	3	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
108	<i>Cupressus sp.</i>	Cypress	200	Low L/scape Sig.	4	3	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
109	<i>Cupressus sempervirens</i>	Italian Cypress	300	Moderate L/scape Sig.	3	3	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
110	<i>Lagerstroemia indica</i>	Crepe Myrtle	5*180	Moderate L/scape Sig.	2	3	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
111	<i>Cupressus sp.</i>	Cypress	160	Low L/scape Sig.	3	2	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
112	<i>Cupressus sp.</i>	Cypress	5*180	Moderate L/scape Sig.	3	3	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed

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113	<i>Acer palmatum</i>	Japanese Maple	8*100	Low L/scape Sig.	Unstable	3	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
114	<i>Cupressus sempervirens</i>	Italian Cypress	250	Moderate L/scape Sig.	4	2.5	1.5	The proposed basement carpark is within 2.8m (west) of the tree.	The tree is currently in poor condition and is likely to further decline as a result of building works.	On site	To be Removed
115	<i>Cupressus sempervirens</i>	Italian Cypress	1*300, 2*100	Moderate L/scape Sig.	4	4	2	The proposed basement car park is within 2.8m (west) of the tree.	The tree is currently in poor condition and is likely to further decline as a result of building works.	On site	To be Removed
116	<i>Jacaranda mimosifolia</i>	Jacaranda	1*100, 1*400, 1*450	High L/scape Sig.	2	5	3	The proposed landscape levels require excavation or fill material surrounding the tree.	Changes to soil levels are to be excavated affecting the tree's root system.	On site	To be Removed
117	<i>Jacaranda mimosifolia</i>	Jacaranda	2*400	High L/scape Sig.	2	5	3	The proposed landscape terrace area spatially conflicts with the tree's location	Changes to soil levels are likely to involve fill material affecting a substantial portion of the tree's root system.	On site	To be Removed
118	<i>Schefflera actinophylla</i>	Umbrella Tree	>10* 50-100	Moderate L/scape Sig.	4	4	2	The proposed landscape terrace area spatially conflicts with the tree's location	Changes to soil levels are likely to involve fill material affecting a substantial portion of the tree's root system.	On site	To be Removed
119	<i>Schefflera actinophylla</i>	Umbrella Tree	2*100, 1*300	Moderate L/scape Sig.	4	4	2	The proposed water feature is 1.2m (south east) of the tree with landscape works surround the tree.	Changes to soil levels are likely to involve fill material and excavation affecting a substantial portion of the tree's root system.	On site	To be Removed
120	<i>Schefflera actinophylla</i>	Umbrella Tree	4*100, 1*200	Moderate L/scape Sig.	4	4	2	The proposed water feature is 2.8m (south east) of the tree with landscape works surround the tree.	No significant impact however, the tree is considered to be in poor condition.	On site	To be Removed
121	<i>Eucalyptus sp.</i>		550	High L/scape Sig.	1	9	5	The proposed landscape water feature is within 5.0m (east) of the tree. The proposed drainage line is within 6m (north) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
122	<i>Liquidambar styraciflua</i>	Sweet Gum	500	High L/scape Sig.	1	6	4	The proposed landscape water feature is within 6.5m (east) of the tree. The proposed drainage line is within 6m (north) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
123	<i>Glochidion ferdinandi</i>	Cheese Tree	240	Low L/scape Sig.	2	3	2	No works apart from landscaping within the trees primary root zone.	No significant impact with appropriate tree protection measures.	On adjacent allotment	Retained with General Tree protection measures
124	<i>Arecastrum romanzoffianum</i>	Cocos Palm	250	Low L/scape Sig.	2	1.5	1	No works apart from landscaping within the trees primary root zone.	No significant impact with appropriate tree protection measures.	On adjacent allotment	Retained with General Tree protection measures
125	<i>Eucalyptus saligna</i>	Sydney Blue Gum	750	Significant L/scape Sig.	3	10	5	The proposed drainage line is within 6m (north) of the tree and proposed landscape works are within the trees primary root zone.	No significant impact with appropriate tree protection measures.	On adjacent allotment	Retained with General Tree protection measures
126	<i>Liquidambar styraciflua</i>	Sweet Gum	640	High L/scape Sig.	2	6.5	3.5	No works apart from landscaping within the trees primary root zone.	No significant impact with appropriate tree protection measures.	On adjacent allotment	Retained with General Tree protection measures
127	<i>Grevillea robusta</i>	Silky Oak	100	Low L/scape Sig.	1	2	1.5	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
128	<i>Grevillea robusta</i>	Silky Oak	350	Moderate L/scape Sig.	2	4	2.5	The proposed water feature is 0.2m (south east) of the tree with landscape works surround the tree.	Changes to soil levels are likely to involve fill material and excavation affecting a substantial portion of the tree's root system.	On site	To be Removed
129	<i>Citharexylum spinosum</i>	Fiddlewood	300	Moderate L/scape Sig.	1	3	2	The proposed water feature spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
130	<i>Jacaranda mimosifolia</i>	Jacaranda	5*250-300	High L/scape Sig.	2	5	3	The proposed water feature spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
131	<i>Cupressus sempervirens</i>	Italian Cypress	400	Moderate L/scape Sig.	3	4	2	The proposed water feature spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
132	<i>Callitris sp.</i>	Pine	200	Low L/scape Sig.	3	2	1.5	The proposed landscape design levels require existing levels to be lowered surrounding the tree.	Changes to soil levels are to be excavated affecting the tree's root system.	On site	To be Removed
133	<i>Magnolia soulangeana</i>	Magnolia	1*60, 2*100	Low L/scape Sig.	2	3	1.5	The proposed landscape design levels require existing levels to be lowered surrounding the tree.	Changes to soil levels are to be excavated affecting the tree's root system.	On site	To be Removed
134	<i>Cupressus sp.</i>	Cypress	200	Low L/scape Sig.	4	2	1.5	The proposed landscape design levels require existing levels to be lowered surrounding the tree.	Changes to soil levels are to be excavated affecting the tree's root system.	On site	To be Removed
135	<i>Cotoneaster sp.</i>	Cotoneaster	2*200, 1*100	Env. Pest Species	4	3	1.5	The proposed landscape design levels require existing levels to be lowered surrounding the tree.	Changes to soil levels are to be excavated affecting the tree's root system.	On site	To be Removed
136	<i>Camellia sasanqua</i>	Camellia	2*240	Low L/scape Sig.	2	4	2	The proposed building footprint spatially conflicts with the location of the tree.	Not applicable	On site	To be Removed
137	<i>Cupressus sp.</i>	Cypress	2*100, 1*200	Low L/scape Sig.	3	4	2	The proposed pathway is within 1.5m (west) of the tree.	No significant impact provided that tree protection measures are incorporated in the detailed design.	On site	Retained with General Tree protection measures
138	<i>Cupressus sp.</i>	Cypress	400	Low L/scape Sig.	4	4	2	The proposed pathway is within 2.2m (south west) of the tree.	No significant impact provided that tree protection measures are incorporated in the detailed design.	On site	Retained with General Tree protection measures
139	<i>Camellia sasanqua</i>	Camellia	200	Low L/scape Sig.	2	4	2	The proposed pathway is within 1.8m (east) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
140	<i>Cupressus sp.</i>	Cypress	1*200, 1*300	Moderate L/scape Sig.	3	4	2	The proposed pathway is within 1.8m (east) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
141	<i>Cupressus sp.</i>	Cypress	200	Low L/scape Sig.	3	2	1.5	The proposed pathway is within 1.8m (east) of the tree.	No significant impact with appropriate tree protection measures.	On site	Retained with General Tree protection measures
142	<i>Cupressus sp.</i>	Cypress	1*100, 1*200	Low L/scape Sig.	Unstable	3	2	The proposed pathway is within 1.1m (east) of the tree.	The tree is currently unstable and excavation is likely to increase its instability.	On site	To be Removed



specific tree protection measures

Tree No’s 55 & 56 and proposed drainage

The existing and proposed drainage line is within close proximity to Tree No’s 55 & 56.

Should there be a need for the existing drainage line to be replaced, consideration should be given to the retention of these trees. To minimise disturbance to the root zones of Tree No’s 55 & 56, should the drainage line be replaced, it should be realigned to be no closer than 2.5m from the trees, or alternatively the drainage service should be thrust bored beneath the trees.

general tree protection measures during construction

Prior to demolition and earthworks, 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 demolition or earthworks, 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 Primary Root Zone (refer sheets 9-10). Where this is not possible protective fencing must be aligned no further than 0.5m away from the proposed structure to be demolished.

The purpose of the fencing is to protect the tree roots and trunk and branches and minimise detrimental impacts on the trees during demolition and construction. Fencing shall be 1.8m high chain mesh material securely fixed to steel supporting posts with top and bottom strainer top or steel pipe rails.

After demolition and prior to earthworks Protective Fencing should be realigned to be no closer than the Primary Root Zone (refer sheets 9-10) where applicable. Where this is not possible protective fencing must be aligned no further than 0.5m away from the proposed structure to be constructed.

Construction scaffolding can be erected within the tree protection fencing provided that the scaffolding risers spread the weight distribution over a minimum of 2m<sup>2</sup> to avoid soil compaction.

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.

Specific excavation for services that require critical fall (eg. sewer, stormwater) may be undertaken within the fenced off areas provided that trenching is dug using hand tools and tree roots are not severed unless they spatially conflict with the service pipes. This work within the tree protection fencing must be carried out under the instructions of an experienced and qualified arborist.

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.

Landscape works in the vicinity of the trees must be sympathetic to tree retention and existing ground levels within the trees’ critical root zone (refer sheets 9-10) must remain unchanged.

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.

summary

This report has been prepared to assess the condition and significance of a number of trees on and adjacent the properties of 1, 2, 3, 4A, 4B, 5, 6, 7, & 8 Nield Avenue, Greenwich and assess the potential impact of the proposed development on the identified trees. The site is currently developed and consists of 9 residential properties with associated driveways, carparks and garages together with paved and terraced areas and associated landscaping.

There are 140 trees identified on and adjacent the site and based upon the architectural, drainage and landscape plans and this assessment:

- 89 trees are to be removed;
- 51 trees are to be retained.

tree removal and environmental & landscape significance

Of the 89 trees required to be removed on the site:

- 14 trees are considered be structurally poor and unstable (Tree No’s 1, 19, 34, 39, 43, 46, 53, 67, 70, 73, 84, 89, 113 & 142);
- 0 trees are declared noxious weeds;
- 5 trees are considered to be pest species and can be currently be removed, being exempt from protection under Lane Cove Council’s Tree Preservation Order (Tree No’s 10, 118, 119, 120 & 135);
- 15 trees are in poor condition of which 12 are of low landscape significance and 3 are of moderate landscape significance (Tree No’s 2, 7, 13, 18, 22, 36, 41, 81, 82, 83, 105, 108, 114, 115 & 134);
- 23 trees are in fair-good condition and are considered to be of low landscape significance;
- 24 trees are in fair-good condition and are considered to be of moderate landscape significance;
- 7 trees are in fair-good condition and are considered to be of high landscape significance (Tree No’s 4, 28, 57, 87, 116, 117 & 130);
- 1 tree is in fair-good condition and is considered to be prominent in the broader landscape (Tree No. 54).

tree retention and environmental & landscape significance

In relation to the 51 trees to be retained on and adjacent the site,

- 14 trees are considered to be of low landscape significance (Tree No’s 47, 49, 59, 75, 94, 95, 96, 123 124, 137, 138, 139 & 141);
- 25 trees are considered to be of moderate landscape significance (Tree No’s 8, 17, 29, 30, 48, 55, 56, 58, 60, 61, 63, 64, 65, 66, 68, 69, 72, 74, 79, 97, 98, 99, 100, 101 & 140);
- 9 tree are considered to be of high landscape significance (Tree No’s 14, 15, 71, 76, 77, 93, 121, 122 & 126);
- 3 trees are considered to be prominent in the broader landscape (Tree No’s 45, 104 & 125)

tree protection measures

Of the trees to be retained:

- 2 trees, (Tree No’s 55 & 56) require specific designed tree protection in relation to the drainage alignment, and
- 49 trees require general tree protection measures prior to and during construction.

Provided that the specific and general tree protection measures are implemented and works are undertaken in a sensitive manner, the proposed development will not have a significant impact on the long-term health of the trees identified as being retained.

measures to mitigate tree loss & visual amenity

Whilst the majority of the trees on the site are to be removed, consideration has been given to their condition and landscape significance.

The proposed development has been designed so as not to impact on the trees on the adjoining allotments with adequate development setbacks provided for trees, particularly those that are prominent in the broader landscape.

On the site the proposed development will require the removal of a number of trees of high, moderate and low landscape significance and to compensate for the removal of trees, tree replenishment has been incorporated in to the landscape plan (Taylor Brammer, 2008).

Melanie Howden – brief Curriculum Vitae

Experience

Melanie Howden is Footprint Green’s principal arborist & horticulturalist and has been working in the industry for over 25 years. She has over 13 years experience working in Local Government, at both Sydney City Council and Ku-ring-gai Council, dealing with tree issues from both the broader landscape scale to individual tree assessments. Melanie has also been a TAFE teacher at Ryde for seven years and managed/owned and worked in retail & propagation nurseries.

Melanie has personally carried out hundreds of arboricultural consulting projects associated with; the redesign of golf courses such as Bonnie Doon, Cromer, Bayview, Wallacia, Fox Hills, large scale developments for Lend Lease Developments and Mivac, property/site planning projects including Coolmore Stud Australia, Hunter Valley and many development projects ranging from commercial, seniors living and residential proposals. In addition to these projects, Melanie has appeared in Land and Environment Court of NSW as a both a Court appointed expert and as an expert witness on numerous occasions.

Melanie has developed skills and expertise recognised in the industry and has been invited to speak at a number of forums the latest being the NEERG Seminar on Reading Between the Lines; Making Sense of Consultants Reports, 2006

Scope of recent projects

As a Director and Principal Aboriculturist at Footprint Green Pty Ltd, Melanie Howden has conducted several hundred arboricultural consultancy projects involving:

- tree site analysis planning;
- tree audit surveys;
- impact of development on trees assessments;
- tree hazard assessments;
- revegetation plans;

Professional Affiliations

Member	Australian Institute of Horticulture
Member	National Arborists Association of Australia
Member	Institute of Australian Consulting Arborists

Positions held since 1979

2000 - present	Director / Principal Arborist & Horticulturist	Footprint Green Pty Limited
1995 – 1999	Manager Trees & Parkland	Ku-ring-gai Municipal Council
1994 – 1995	Urban Tree Management Officer	Ku-ring-gai Municipal Council
1991- 1994	Parks Technical Officer	Ku-ring-gai Municipal Council
1992 – 2000	Horticultural Teacher (part time)	TAFE Ryde/Epping
1988 – 1991	Owner/Manager	Avalon Nursery & Garden Centre
1987 – 1988	Parks Technical Officer	Sydney City Council
1985-1987	Parks Technical Officer	Ku-ring-gai Municipal Council
1982 – 1990	Consultant/Nursery Person	Whale Beach Horticultural Services Pty Ltd
1984	Botanical Guide	Westrail Travel Centre
1980 – 1981	Consultant/Nursery Person	Steeles Point Nursery (Norfolk Island)
1979 – 1988	Consultant/Nursery Person	Avalon Nursery Pty Ltd

Tertiary Education

Associate Diploma in Horticulture	Hawkesbury Agricultural College, 1982-1983
Bachelor Landscape Architecture (incomplete)	University of NSW, 1980 -1981
Statement of Attainment in Arboriculture Techniques	Northern Sydney Institute of TAFE, 1996
Certificate in Tour Directing and Guiding	Northern Sydney Institute of TAFE, 1995

Short courses

National Teaching and Learning Program	Northern Sydney Institute of TAFE, 1997
Summer School of Park Management	University of Canberra, 1995