

Landscape Master Plan

Final Draft

NORTH WATSON



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WP Brown & Partners
JEA Landscape
Egan National Valuers
TT Architecture
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Authorised by the ACT Parliamentary Counsel—also accessible at www.legislation.act.gov.au

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Figure 7: **Landscape Details**
Figure 8: **Landscape Details**

ATTACHMENTS

- A** **North Watson Tree Survey and Assessment**

1.0 PURPOSE

This report has been commissioned by PALM in response to a requirement arising from Variation 5 to the Territory Plan to provide a Landscape Master Plan for North Watson (see [Figure 1](#)) that will protect and enhance the landscape character of the area.

Whilst the following material is presented as a stand-alone document, it should be read in conjunction with the revised North Watson Master Plan prepared by Purdon Associates and consultant team for PALM in December 2002.

2.0 BACKGROUND

North Watson has been the subject a of number of detailed planning, engineering and environmental studies, as well as community debate over woodland/grassland resources since prior to the establishment of Self Government in 1990.

In the early 1990's a planning study was undertaken which identified the site as being suitable for urban development within the context of existing adjacent residential areas and the proposed urban development in the remainder of North Watson.

A Preliminary Assessment Report was prepared for the ACT Planning Authority in 1992 showing the subject site for residential uses. This confirmed that the area had substantial potential for future urban development and offered a number of important social and economic benefits from such use without adverse environmental impact.

A tree survey and landscape plan for the area was also undertaken as part of the PA process at that time.

North Watson has a total area of about 55ha and is located in Inner Canberra. The site is separated from Mt Majura Reserve by Antill Street.

A Brief from PALM (Estates planning unit) was issued to Purdon Associates, in conjunction with WP Brown, JEA Landscape and Egan National Valuers, to review the current Master Plan and Landscape Plan for the area as a framework for completion of a detailed planning study for the new residential estate.

3.0 LANDSCAPE PRINCIPLES

The following landscape planning objectives and principles have been adopted as part of the for the North Watson Master Plan Study and displayed at Community Information Sessions for discussion ([Figure 5](#) refers).

- Apply principles of high quality urban design
- Water sensitive design
- Enhance external views
- Enhance connectivity and compatibility with adjacent land uses including open space
- Retain/enhance woodland landscape character
- Maximise interface with public realm
- Protect public open spaces with “edge” roads
- Provide local public open space to meet housing needs

4.0 SITE ANALYSIS

This section identifies the site assessment undertaken as part of the planning study for North Watson. [Figure 3](#) refers.

4.1 Site Area and Dimensions

The study area has an approximate area of 55 hectares with a roughly triangular shape. The southern boundary has an approximate dimension of 1.5 kms, with a frontage of 1.27kms to the Federal Highway and 1.5kms to Antill Street.

Exposure to the Federal Highway as the main road access into the National Capital is an important commercial asset for existing and future commercial accommodation and tourism uses.

4.2 Topography and Drainage

The study area is located within the Sullivans Creek catchment which drains into Lake Burley Griffin. It has a gentle cross-fall from east to west.

There are no permanent creeks or drainage lines on the site although there are two intermittent water courses present during periods of heavy rain.

The study area receives runoff from the Mt Majura Reserve to the east.

4.3 Habitat

The study area contains areas of former box gum woodland where mature trees remain.

A detailed tree survey and assessment has been undertaken for most of the study area by Clarke Di Pauli and JEA Landscape for the current planing study. [Figures 4 and 5](#) refer.

The landscape assessment concludes that whilst existing vegetation does not represent habitats of high ecological value, there are many individual trees of significance and a number of groups of trees that make an important contribution to the landscape character of the area.

4.4 Landscape Character

North Watson has a distinct landscape character, which is defined by the surrounding hill slopes and woodland vegetation. Mount Majura to the east and north-east provides a dramatic back drop which offers a visual and geographic location. The Stirling easement to the south and the street trees (*Eucalyptus globulus*) to the west and north-west enclose the site in vegetation.

The eastern end of the site is the base of mount Majura. The land undulates slightly and falls gently to the south west of the site which flattens to a low plain. Justice Robert Hope Park provides a 'canopy' of trees along with a group of trees adjacent to channel seven and a pocket of trees near the corner of Aspinall Street and Antill Street. Views to the west and north west are of the upper catchment of Sullivans Creek which is a semi-rural grassed plain, and pockets of industrial development (Mitchell). The Federal Highway is screened by substantial row plantings of *Eucalyptus globulus* along Aspinall Street and adjacent to the existing residential development.

The western end of the site is flat grazed pasture. The predominant view is Mount Majura and Justice Robert Hope Park to the east, and Stirling Reserve to the south.

4.5 Orientation and Views

The study area has attractive views in the north east/ south east quadrant towards Mt Majura and its vegetated foothills. There are also extensive views to the south including the plantation that runs along the southern side of Stirling Reserve, and to Black Mountain Tower.

Views to the north and north west are punctuated by existing mature vegetation.

5.0 COMMUNITY CONSULTATION

The attached Landscape Master Plan has been displayed at two community information sessions in October and November 2002 as part of the overall North Watson Residential Planning Study commissioned by PALM.

The broad community response has been supportive of the landscape principles contained in the Landscape Master Plan.

6.0 LANDSCAPE MASTER PLAN

Variation 5 of the Territory Plan required that a landscape Master Plan be prepared for North Watson that would preserve and reinforce areas of significant vegetation. In response to this requirement a landscape Master Plan has been prepared.

Figure 4 shows areas within North Watson subject to a tree survey undertaken by Clarke and Di Pauli (December 2002). **Attachment A** provides details of the tree assessment for the same area undertaken by JEA.

Figure 5 summarises the landscape design principles considered relevant to North Watson.

Figure 6 shows the recommended Landscape Masterplan for the study area.

The landscape master plan recognises the distinctive natural environment that surrounds the area. Any future development within North Watson will be required to retain visual and ecological links between proposed landscaped open spaces, and the surrounding woodland communities. Endemic eucalypts will be used in pocket and perimeter plantings, so that residents may understand the relationship between the urban and natural landscapes.

Trees of high or exceptional value (refer **Figure 4**) in proposed development areas in North Watson will require special consideration to avoid disturbance.

Public street verges will be planted to create avenues of trees and improve visual continuity throughout the area. This will also enhance the existing pattern of row plantings within North Watson. The avenue trees will frame the views through the site and out of the site (in particular, the woodland and hill slopes to the north and east).

The street planting will also have the effect of creating pockets of development, breaking up the roofline of possible built forms.

Figures 7 and 8 show details of the landscape planning principles for specific elements within North Watson. These plans include proposed edge treatments and as well as avenue and intersection plantings that will reinforce existing landscape character.

VEGETATION ASSESSMENT

NORTH WATSON
ACT

Prepared
For

PALM

By



J. Easthope & Associates Pty Ltd

**13 December 2002
Revision C**

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Vegetation Assessment North Watson

Assessment Data Inventory

Information set out below is details of inventory assessment criteria contained in the Tree Assessment Table.

1. Tree number

Reference number to individual trees or groups

2. Species

Identification of trees on site as follows:

Af	Acacia floribunda	(White sallow)
Ct	Cupressus torulosa	(Bhutan cypress)
Cu	Cupressus macrocarpa	(Monterey cypress)
Ebr	Eucalyptus bridgesiana	(Apple box)
Ebl	Eucalyptus blakelyi	(Blakely's gum)
Eci	Eucalyptus cinerea	(Argyle apple)
Ed	Eucalyptus dives	(Broad-leaved peppermint)
Eg	Eucalyptus globulus	(Tasmanian blue gum)
Emn	Eucalyptus maniferra	(Brittle gum)
Est	Eucalyptus stellulata	(Black sally)
Er	Eucalyptus rossii	(Scribbly gum)
Psp	Prunus species	
Pa	Populus alba	(Upright silver poplar)
Pi	Populus nigra 'italica'	(Lombardy poplar)
Pr	Pinus radiata	(Monterey pine)
Up	Ulmus parvifolia	(Chinese elm)

3. Trunk

Measured 1 metre above FSL. Trees with trunk circumference of 1500mm are potentially significant trees under Tree Protection Legislation. – TDA application required. Multiple trunk trees with a circumference of 1500mm are potentially significant trees under the Tree Protection Legislation. – TDA application required.

Number of trunks greater than 150mm diameter.

4. Height

In metres. (Any tree greater than 12m is potentially a significant tree under the Tree Protection Legislation. – TDA application if removal I required)

5. Crown

Shown in meters it is the maximum crown width of the tree. Trees with crown diameter/spread of 12m or greater are potentially significant trees under the Tree Protection Legislation. – TDA application if removal required.

6. Disturbance Sensitivity

H	High
M	Medium
L	Low

7. Expected Longevity

S	Short (less than 10 years)
M	Medium (10-25 years)
L	Long (greater than 25 years)

Vegetation Assessment North Watson

8. Classification of Significant Trees

- E** Mature specimen
Grand appearance and stature
May have unusual character
May be rare
Little to no epicormic shoots
- H** High value tree
Mature specimen
Little or no epicormic shoots
Minimal disturbance to root zone
- M** Mature specimen
Some evidence of limb fall
Epicormics may be common
Dieback common
- P** Poor quality trees
Significant dieback
Short life expectancy

9. Cultural Significance

Cultural/Social/Commemorative

- CSC 1 Significant public figure or important historical event
CSC 2 Highly valued by the community or a cultural group
CSC 3 Aboriginal listed place

Visual / Aesthetic

- VA1 A tree or group of trees that occurs in a prominent location or context
VA2 A tree that is outstanding for its height, trunk circumference or canopy spread
VA3 A tree or group of trees which is of outstanding aesthetic or visual significance, and so provides a significant contribution to the landscape, including remnant native trees, important landmarks and plantings constituting formal or unusual patterns, or exhibits curious growth forms or physical features

10. Botanic Significance

- BS1 A tree that is of horticultural or genetic value and could be an important source of propagation stock, including specimens that are particularly resistant to disease or climatic extremes.
- BS2 A tree that is an outstanding example of its species, including its age, size or habit
- BS3 A tree or group which demonstrates a likelihood of providing information which will contribute significantly to a wider understanding of natural or cultural history by virtue of its use as a research site.
- BS4 A tree or group which provides habitat for native fauna

11. Ecological

- E1 An example of a rare or threatened species or one endemic to the territory or local region.
- E2 An indigenous native eucalypt in the urban area with a trunk circumference of 2.5m or more
- E3 A tree or group of trees that make a significant contribution to the integrity of an ecological community, including its role as a seed source or specialised habitat
- E4 A remnant specimen tree or group of trees reduced in range or abundance, which indicates the former extent of the species, particularly range limits.

Vegetation Assessment North Watson

E5 A tree or group of trees which is a significant habitat element for rare or threatened wildlife species.

12. Tree Damaging Activity (TDA) Application

Under the Tree Protection (Interim Scheme) Act 2001, a tree is a significant tree and is protected if it is growing on urban leased land and it has:

A height of 12 metres or more

Trunk circumference of 1500mm at 1000mm from FSL

Two or more trunks total greater than 1500mm at 1000mm FSL

Crown width of 12m or more

13. Comments on Tree Groups

The tree survey has been undertaken to assist in the forward planning of North Watson. Generally individual trees that meet the criteria identified within the Conservator guidelines have been listed on an individual base as outlined in the following table. There are however a number of significant formal planted rows that as a group could be deemed as significant, the following comments are stated in relation to these groups.

Group 34

Juvenile group of mixed species

Group 119

Large group of *Pinus radiata* (pine). The group forms a significant visual element within the site. It should be retained and managed as a group. Removal of large portions would impact on the stability of the group due to wind throw.

Group 128

This group consists of 4-5 rows of densely planted *Eucalyptus globulus* (Tasmanian Blue Gum) and *Pinus radiata* (Pine). The group is visually dominant with the Pines on the west side dominating. The Blue Gum band on the eastern side is in poor condition, requiring selective thinning and tree surgery. It is recommended that the group be retained.

Group 129 – 131

This group consists of three rows of *Eucalyptus globulus* (Tasmanian Blue Gum). The three rows are consistent with densely planted windbreak stands. The outer west row has been allowed to grow to a mature condition with the two inner rows showing signs of restricted growth as is indicated by the reduced trunk diameter and crown spread.

The trees are not seen as a significant group as they run parallel with the group 128 wind break and do not appear to have any relevance in terms of cultural significance.

Group 169

Part of original windbreak planting, group consists of mixed species. *Populus* species (Poplar) *Ulmus* species (Elm) *Pinus radiata* (Pine) *Eucalyptus cinerea* (Argyle apple). There are also a number of suckers. The group is generally in poor condition with thinning required to establish better growth conditions.

Group 186

Significant group of trees planted along verge. Dominant species is *Eucalyptus globulus* (Tasmanian blue Gum) with the southern row consisting of *Eucalyptus cinerea* (Argyle apple) The southern row of *Eucalyptus cinerea* is not performing and should be removed. It is recommended that the *Eucalyptus globulus* be retained.

Group 220- 221

Two large groups of mixed juvenile *Eucalyptus* planting.

Vegetation Assessment North Watson

Notes / Disclaimer

This report is to be utilized in its entirety only. Any written or verbal submission, report or presentation that includes statements taken from the findings, discussions, conclusions or recommendations made in this report, may only be used where the whole of the original report (or copy) is referenced in, and directly attached to that submission, report or presentation.

Information contained in this report covers only those trees, which were examined, and reflects the condition of those trees at the time of inspection between 16 October to 20th October 2002.

The inspection was limited to visual examination, without dissection, excavation, probing or coring. There is no warranty or guarantee or expressed or implied, that problems or deficiencies of the subject trees may not arise in the near future.

The findings of this report may not necessarily agree with reports prepared by others, including the Government Conservator of Trees.

VEGETATION ASSESSMENT

North Watson

Tree	Species	Crown (m)	Trunk (circumference mm)	Height (m)	No.of trunks	Disturbance tolerance	Life expectancy	Class	Cultural sensitivity	TDA	Notes
1	E. melliodora	30	3770	23.8	1	H	L	E	VA2	x	Exceptional specimen
2	E. melliodora	18	2513	17.5	1	H	L	H	VA2	x	Some crown and leader damage otherwise healthy
3	E. melliodora	18	2827	15	2	H	L	M			Some mechanical damage ie. Pruning around power lines
4	E. melliodora	26	2827	20	1	H	L	H	VA2	x	Very large even canopy, slightly thin crown
5	E. melliodora	12	2827	12.8	1	M	L	M			Significant crown loss otherwise healthy
6	E.rossii	16	3770	17.9	2	H	L	H	VA2	x	
7	Deleted										
8	Deleted										
9	Deleted										
10	E. melliodora	32	4084	23.4	1	H	L	E	VA2	X	
11	E. melliodora	20	4398	22.1	1	H	L	M	VA2	X	Borer
12	E. melliodora	34	4084	30*	1	H	L	H	VA2	x	Loss of one major limb
13	E. melliodora	20	4084	20.6	1	H	L	H	VA2	x	
14	E. bridgesiana	32	6283	17	1	M	L	L		x	rot in cleft, severe lean
15	E. melliodora	22	4398	20.8	1	H	L	H	VA2	x	
16	E. blakelyi	24	3770	20.9	1	M	L	E	VA2	x	
17	E. melliodora	20	5969	20*	1	H	L	H	VA2	x	root rot , mistletoe
18	E. melliodora	28	4084	19.9	1	H	L	E	VA2	x	
19	E. blakelyi	26	3142	17.5	1	M	L	H		x	
20	E. melliodora	6	1257	7.1	1	H	L	P			regrowth tree
21	E. blakelyi	22	3770	22	1	M	L	M		x	unusual form
22	E. melliodora	22	3456	23*	1	H	L	M		x	major limb loss
23	E. melliodora	24	3770	21*	1	H	L	M		x	rot at base unusual form
24	E. bridgesiana	22	2827	19.4	1	M	L	H	VA2	X	
25	E. bridgesiana	26	3142	16.4	1	M	L	E	VA2	X	
26	E. blakelyi	26	3142	16.9	1	M	L	E	VA2	X	
27	E. melliodora	26	3770	20.2	1	H	L	H		X	major limb loss

VEGETATION ASSESSMENT

North Watson

Tree	Species	Crown (m)	Trunk (circumference mm)	Height (m)	no.of trunks	Disturbance tolerance	Life expectancy	Class	Cultural sensitivity	TDA	Notes
28	E. melliodora	28	3456	20.2	1	H	L	H		x	rot at tree base
29	E. bridgesiana	26	4398	17.9	1	M	L	M		x	
30	E. blakelyi	22	3770	19.2	1	M	L	M		x	limb loss
31	A. floribunda	10	1257	7.5	1	H	L	M		x	
32	E. blakelyi	24	3770	19.8	1	M	L	E		x	
33	E. blakelyi	28	4398	22.9	1	M	L	M		x	
34	Mixed group	11	942	8	1	M	L	M			juvenile planting
35	E. blakelyi	24	4398	16.7	1	M	L	M		x	
36	E. rossii	28	3770	19.1	1	H	L	M		x	
37	E. melliodora	24	3770	28	1	H	L	E	VA2	x	
38	Prunus	8	1885	5.1	1	H	L	P			
39	U. parvifolia	10	942	8.4	1	H	L	P		x	
40	U. parvifolia	16	0.6	1.88	1	H	L	P			
41	E. melliodora	30	3770	20.5	1	H	L	E	VA2	x	
42	E. blakelyi	30	3770	24.1	1	M	L	M		x	borer
43	E. melliodora	30	4084	27.6	1	H	L	E	VA2	x	
44	E. blakelyi	22	3770	17.4	1	M	L	E	VA2	x	
45	E. melliodora	14	2199	17.6	1	H	L	P		x	dieback
46	E. melliodora	10	2513	15	1	H	L	M		x	loss of limbs
47	E. melliodora	14	2199	15.7	1	H	L	H		x	
48	E. melliodora	16	3142	15.6	1	H	L	H		x	
49	E. melliodora	10	1885	11.3	1	H	L	P		x	
50	E. melliodora	14	2513	16.4	1	H	L	M		x	
51	E. blakelyi	14	3456	18	1	M	L	M		x	
52	E. blakelyi	20	3456	20.3	1	M	L	P		x	
53	E. melliodora	30	1885	15.1	1	H	L	M		x	
54	E. melliodora	16	2199	17.4	1	H	L	H		x	
55	E. melliodora	12	2513	16.7	1	H	L	M		x	major limb loss
56	E. melliodora	14	2199	19.4	1	H	L	E		x	
57	E. melliodora	14	1885	10.9	1	H	L	M		x	
58	E. blakelyi	20	4712	19.8	1	M	L	E		x	
59	E. blakelyi	20	2827	17	1	M	L	P		x	
60	E. melliodora	10	3142	17.7	1	H	L	H		x	
61	E. melliodora	11	2199	18	1	H	L	M		x	

VEGETATION ASSESSMENT

North Watson

Tree	Species	Crown (m)	Trunk (circumference mm)	Height (m)	no.of trunks	Disturbance tolerance	Life expectancy	Class	Cultural sensitivity	TDA	Notes
62	E. blakelyi	10	1571	14.2	1	M	L	P			
63	E. melliodora	10	2827	21.9	1	H	L	H	VA2	X	
64	E. blakelyi	14	2199	15.1	1	M	L	H		X	
65	E. blakelyi	12	2513	16.3	1	M	L	P		X	
66	E. melliodora	14	2513	12.6	1	H	L	P		X	
67	E. melliodora	12	2827	13.3	1	H	L	M		X	
68	E. melliodora	10	2827	18	1	H	L	M		X	
69	E. globulus	15.1	3000	14.1	multi	L	S	P		X	fungal attack
70	E. globulus	17.9	3600	18.3	multi	L	M	M		X	
71	E. mannifera	12.2	1670	14.8	1	L	M	M		X	pysalid attack
72	E. globulus	11.1	2450	17.9	2	L	S	P		X	dying
73	E. globulus	13.4	2850	18.2	2	M	M	M		X	
74	E. globulus	14.4	1900	18.2	1	M	M	M		X	
75	E. bridgesiana	14	1750	14.8	1	M	L	M		X	
76	E. bridgesiana	14.4	3350	18	1	L	L	M		X	
77	C.macrocarpa	10	1571	9.7	1	M	M	P			row of mixed exotic trees refer to 227 On the plan
78	P. radiata	10	1571	14.5	1	L	S	P		X	
79	P. radiata	10	1571	14.5	1	L	S	P		X	
80	P. radiata		dead		1					X	
81	P. radiata	10	1257	14.7	1	L	S	P		X	
82	U. parvifolia	10	1257	14.8	2	L	M	P		X	
83	P. radiata	4	942	6.3	1	L	L	P			
84	P. radiata	10	1257	14.4	1	L	L	P		X	
85	P. radiata	10	1257	14.6	1	L	L	P		X	
86	C.macrocarpa	12	942	9.1	1	M	M	P			
87	P. radiata	12	1571	14.7	1	H	L	M		X	
88	P. radiata	6	942	15.5	1	H	L	M			
89	P. italica	8	942	14.6	1	L	S	P			
90	P. italica	3	1570	15.3	1	L	S	P			
91	C.macrocarpa	14	1571	15.2	1	L	S	P		X	
92	P. radiata	6	942	15.3	1	L	S	P		X	
93	P. radiata	5	942	10	1	L	S	P			
94	P. italica	10	1257	15.1	1	L	S	P		X	
95	P. alba	4	628	7	1	L	M	P			
Tree	Species	Crown (m)	Trunk (circumference mm)	Height (m)	no.of trunks	Disturbance tolerance	Life expectancy	Class	Cultural sensitivity	TDA	Notes
96	P.alba	4	628	7	1	L	M	P			

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jea02472

North Watson

Rev: C

Note: trees 69-76,108-118 crown measurements are the greater sum of east+ west; north+south mesurments.

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VEGETATION ASSESSMENT

North Watson

97	C.macrocarpa	8	1257	15.9	1	L	M	P		X	
98	C.macrocarpa	12	1257	15.2	1	L	M	P		X	
99	P.radiata	8	1257	15.8	1	L	M	P		X	
100	P. alba	7	942	8	1	L	M	P			
101	P.radiata	10	1257	16.2	1	L	M	P		X	
102	P.radiata	6	1257	10.2	1	L	M	P			
103	P.radiata	12	1571	14.3	1	L	M	P		X	
104	P.radiata	10	1257	15.6	1	L	M	P			
105	P.radiata	6	1571	7.1	1	L	M	P			
106	P.radiata	11	1885	15	1	L	M	P		X	
107	U. parvifolia		dead		1						
108	P.radiata	7.2	1750	16.2	1	L	M	P		X	
109	E.globulus	10.1	1850	16.7	1	L	M	M		X	
110	E. globulus	10.5	1650	14.8	1	H	L	M		X	
111	E. globulus	12.9	2650	16.7	1	H	L	M		X	
112	E. globulus	5.9	700	7.1	1	H	L	M			
113	E. globulus	15.1	2450	17.6	1	H	L	M		X	
114	E. globulus	11	1900	14.7	1	H	L	M		XX	
115	E. globulus	8.1	3300	15.1	1	H	L	M		X	
116	E. globulus	7.7	1150	14.1	1	H	L	M		X	
117	E. globulus	8.7	1300	18	1	H	L	M		X	
118	E. globulus	15.2	3380	17.7	1	H	L	M			
119	Group					H	L	M		X	row of conifers @ 500 individuals
120	E. blakelyi	12	2827	14.5	1	M	L	P		X	
121	E. blakelyi	14	2513	14.4	1	M	L	H		X	
122	E. blakelyi	8	1571	12*	1	M	L	P			
123	E. maniferra	14	1885	13*	1	H	L	M		X	
124	E. blakelyi	10	1885	12*	1	M	L	M			
125	E. blakelyi	16	2199	14.5	1	M	L	M			
126	E. blakelyi	16	2199	17.4	1	M	L	M		X	
127	E. maniferra	12	2199	15.5	1	H	M	M		X	
128	E.globulus	13-16	2513	15-19		H	L	M	VA3	X	row of E.globulus to be retained
129	E.globulus	13-16	2513	15-19		H	L	H	VA3	X	row of E.globulus to be retained
Tree	Species	Crown (m)	Trunk (circumference mm)	Height (m)	no.of trunks	Disturbance tolerance	Life expectancy	Class	Cultural sensitivity	TDA	Notes
130	Group	13-16	2513	15-19		H	L	M			row of E.globulus
131	Group	13-16	2513	15-19		H	L	P			row of E.globulus
132	P. radiata	10	942	5	1	M	L	P			
133	C.macrocarpa	8	1257	8	1	L	L	P			

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134	E. mannifera		dead		1						
135	E. mannifera	12	1885	25.3	1	L	L	M		X	
136	E. mannifera	12	2513	19.5	1	L	L	M		X	
137	E. mannifera	14	1885	17.5	1	L	L	M		X	
138	E. mannifera	10	1885	21.4	1	L	L	P		X	
139	E. mannifera	5	942	13.3	1	L	L	P		X	
140	E. mannifera	12	1885	19	1	L	L	M		X	
141	E. mannifera	18	1885	19	1	L	L	M		X	
142	E. mannifera	12	1571	17.5	1	L	L	H		X	
143	E.cinerea	6	628	7	1	L	L	P			
144	E. globulus	14	1885	20	1	L	L	M		X	
145	E.cinerea	8	628	12	1	L	L	P			
146	E.globulus	10	1571	20.5	1	L	L	M		X	
147	E. globulus	12	1885	17.5	1	L	L	P		X	
148	E. cinerea	4	628	10	1	L	L	P			
149	E.cinerea	6	942	13.5	1	L	L	P		X	
150	E.globulus	12	1885	17	1	L	L	P		X	
151	E.cinerea	4	628	12.5	1	L	L	P		X	
152	E. manifferra	12	1257	19.5	1	L	L	H		X	
153	E. manifferra	8	942	15.5	1	L	L	P		X	
154	E. cinerea	6	628	12	1	L	L	P			
155	E. cinerea	6	628	11.2	1	L	L	P			
156	E. cinerea	8	1257	15	1	L	L	P		X	
157	E. cinerea	8	942	12.5	1	L	L	P			
158	E. cinerea	5	628	12	1	L	L	P			
159	E. cinerea	6	942	13	1	L	L	P		X	
160	E. cinerea	5	628	14	1	L	L	P		X	
161	E. cinerea	11	1257	14.5	1	L	L	P		X	
162	E. cinerea	4	628	12.5	1	L	L	P			
163	E. cinerea	10	1257	15	1	L	L	P		X	
Tree	Species	Crown (m)	Trunk (circumference mm)	Height (m)	no.of trunks	Disturbance tolerance	Life expectancy	Class	Cultural sensitivity	TDA	Notes
164	E. cinerea	6	628	12	1	L	L	P			
165	E. cinerea	6	942	14	1	L	L	P		x	
166	E. cinerea	10	1571	19.5	1	L	L	M		x	
167	E. globulus	10	1257	14	1	H	L	P		x	group of 5
168	E.cinerea	12	1571	19	1	L	L	M		x	
169	Group	10	1257	13		H	L	M			
170	P. radiata	10	1571	14	1	M	L	P		x	

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Note: trees 69-76,108-118 crown measurements are the greater sum of east+ west; north+south mesurments.

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171	E. maniferra	20	1885	18	1	M	L	H		x	
172	E. cinerea	10	1571	16	1	L	L	P		x	
173	E. cinerea	6	1257	9	1	L	L	P		x	
174	P.radiata	8	1571	8	1	M	L	P			
175	E.cinerea	14	2199	19	1	L	L	M			
176	E.cinerea	10	1100	11	1	L	L	P		x	group of 7
177	E.cinerea	10	1885	14	1	L	L	M		x	
178	E.cinerea	12	1257	16	1	L	L	M		x	
179	E.cinerea	12	1885	14.5	1	L	L	P		x	
180	E.cinerea	12	1571	18	1	L	L	P		x	
181	E.cinerea	8	1257	16	1	L	L	P		x	
182	P.radiata	14	1571	9	1	M	L	P			group of 8
183	E.cinerea	8	1257	15	1	L	L	P		x	
184	P.radiata	13	1257	10	1	M	L	P			group of 6
185	E.globulus	18	2513	19	1	H	L	M		x	
186	Mixed group	14	1571	7		H	L	M			
187	E. blakelyi	20	3770	13.9	1	M	L	P		x	
188	E. maniferra	22	2827	19.1	1	M	L	H		x	
189	E. blakelyi	26	2827	18.7	1	M	I	M		x	
190	E. melliodora	22	4084	22.5	1	M	L	H		x	
191	E. blakelyi	26	3770	20.6	1	M	L	M		x	
192	E. blakelyi	14	2827	20.2	1	M	L	M		x	
193	E. melliodora	26	4712	21.5	1	M	L	H		x	
194	E. blakelyi	16	4712	17.6	1	M	L	P		x	
195	E. melliodora	16	2827	15.6	1	M	L	H		x	
196	E. blakelyi	12	3142	14.6	1	M	L	P		x	
197	E. blakelyi	20	4712	21.7	1	M	L	P		x	
Tree	Species	Crown (m)	Trunk (circumference mm)	Height (m)	no.of trunks	Disturbance tolerance	Life expectancy	Class	Cultural sensitivity	TDA	Notes
198	E. blakelyi	20	2827	17.8	1	M	L	P		x	
199	E. blakelyi	20	3770	17.2	1	M	L	H		x	
200	E. blakelyi	5	628	6.4	1	M	L	P		x	
201	E. blakelyi	26	2827	19.2	1	M	L	H		x	
202	E. melliodora	18	2513	15.3	1	M	L	M		x	
203	E. melliodora	18	2827	21.3	1	M	L	E	VA2	x	
204	E. melliodora	14	1257	13.3	1	M	L	H		x	
205	E. melliodora	18	1885	12.1	1	M	L	M		x	
206	E. melliodora	24	1257	15.2	1	M	L	M		x	
207	E. melliodora	24	2513	19.4	1	M	L	M		x	

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208	E. melliodora	30	3770	19.9	1	M	L	E	VA2	x	
209	E. melliodora	28	3770	24.3	1	M	L	M		x	
210	E. melliodora	18	2513	16.9	1	M	L	H		x	
211	E. stellulata	10	1257	12.3	1	M	L	M		x	
212	E. dives	6	942	11.4	1	L	L	M			
213	E. globulus	9	1257	13.5	1	M	L	M		x	
214	E. melliodora	10	942	13.4	1	M	L	M		x	
215	E. melliodora	8	942	13.1	1	M	L	M		x	
216	E. melliodora	12	1257	15.3	1	M	L	M		x	
217	E. melliodora	9	942	13.2	1	M	L	M		x	
218	E. melliodora	8	1257	14.9	1	M	L	M		x	
219	E. melliodora	6	1257	13.4	1	M	L	M		x	
220	Group	6	942	9		M	L	M			
221	Group	7	942	10		M	L	M			
222	E. melliodora	6	1257	13.5	1	M	L	M		x	
223	E. globulus	10	628	10.2	1	L	M	P			
224	E. globulus	10	1257	15.6	1	L	M	P		x	
225	E. melliodora	6	1220	12.5	1	M	L	H			
226	E. melliodora	26	3150	24.6	1	M	L	E	VA2		
227	Mixed group	5	1200	14		M	M	P			row of mixed exotic trees, wind break
228	Pinus radiata	10	1200	14	1	M	M	P			
229	E. cinerea	14	1500	16	1	L	M	P			