Tree Number 2 - Ficus macrophylla

(Morten Bay Fig)

Exotic

Location: Moutoa Gardens (Pakaitore)

Assessed by: Marc Higgie, Consultant Arborist, 2 November 2012

History:

This tree was planted during the original landscaping of the gardens in the 1880s (1988 assessment). A photograph taken in 1885 show it already as a large tree, and it is believed it was planted by William Parnell, a landscape gardener who came to New Zealand about 1870 (Newspaper December 19, 1959).

- Tree is in good health with large amounts of ripe fruit on ground at time of assessment.
- Located in a prominent position of Moutoa Gardens.
- It is a very good specimen for this species this far south in New Zealand, there being another of similar stature in Wellington Botanic Gardens.
- There are obvious signs of large failures within the canopy.
- Root plate has numerous exposed and damaged roots, most probably due to lawn mowers. A solution
 would be to install a large much ring around the dripline of the tree.
- Internal structure fairly messy, typical of species. A light thin in the lower canopy would bring out the trees proportions/stature.



Heght - 17m With - 31m

Full Tree Evaluation Score Sheet

Condition	There !	
Condition	Eva	uauon

Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	27
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	15
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	15
Function	Minor	Useful	Important	Significant	Major	3
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						87

Amenity Evaluation

Points	3	9	15	21	27	Score
Stature (m)	3 to 8	9 to 14	15 to 20	21 to 26	27+	27
Visibility (km)	0.5	1.0	2.0	4.0	8.0	9
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	9
Role	Minor	Moderate	Important	Significant	Major	21
Climate	Minor	Moderate	Important	Significant	Major	9
Subtotal Points	12					75

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature • Feature						21
• Form					2111-2-211-1	9
Historic • Age 100+		11/2024				15
 Association 						10
Commemora	tion					
• Remnant						
• Relict						
Scientific • Source	11-1272 - 21					
• Rarity						
Endangered						
Subtotal Points						45
Total Points						207



Tree Number 6 - Metrosideros excelsa

(Pohutukawa)

Native

Location: Moutoa Gardens

Assessed by: Marc Higgie, Consultant Arborist, 21 March 2013

History:

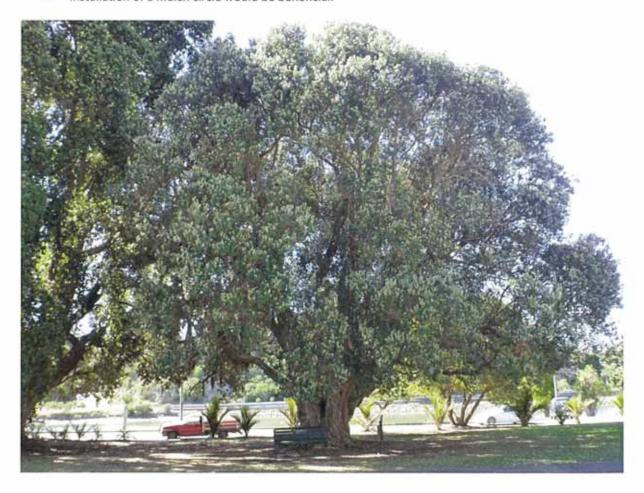
No history known at this stage.

Visual Comments:

- Impressive tree, although somewhat overshadowed by its close neighbouring Pohutukawa.
- Good network of leaders which appear to have good strong unions.
- Some exposed roots have been damaged in the past but grass has been shaded out so should not
 occur in the future.

Recommendations:

Installation of a mulch circle would be beneficial.



Tree #6 Metrosdoros excelsa Full Tree Evaluation Score Sheet

Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	21
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	9
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	15
Function	Minor	Useful	Important	Significant	Major	15
Age (yr)	10yrs. +	20утя. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						87

Points	3	9	15	21	27	Score
Stature (m)	3 to 8	9 to 14	15 to 20	21 to 26	27+	15
Visibility (km)	0.5	1.0	2.0	4.0	8.0	9
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	9
Role	Minor	Moderate	Important	Significant	Major	15
Climate	Minor	Moderate	Important	Significant	Major	q
Subtotal Points						57

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature • Feature			_~		•	
• Form						9
Historic • Age 100+						9
 Association 						<u> </u>
Commemora	tion					
• Remnant						
• Relict						
Scientific • Source						
• Rarity						
 Endangered 						
Subtotal Points						18
Total Points						162



Tree Number 15 – Metrosideros excelsa

(Pohutukawa)

Native

Location: Moutoa Gardens

Assessed by: Marc Higgie, Consultant Arborist, 7 May 2013

History:

None known at this stage.

Visual Comments:

- Very large, impressive tree possibly the largest in Whanganui.
- · Very healthy considering its sign and age.
- Massive basal area.
- Seven main leaders with aerial roots snaking down trunks to the ground.
- There is a large 'window' in the interior canopy but there is no sign of internal branch failures so most probably the leaders have split apart with the huge weight forces that are present.
- There are two separate steel braces installed holding the four heaviest leaders from spreading any further.
- They are holding the leaders but the braces should not be relied upon 100%. Regular monitoring for sign of movement should be put in place. This could involve a simple visual check after storms or a more precise measurement which can be checked at any time.
- There is some sign of pruning above the footpath but otherwise the tree is largely untouched.
- There is some damage to exposed roots but this area has been shaded out and does not require moving anymore.
- The tree is regularly climbed into the main unions by users of the gardens.
- The plaque is no longer attached or visible.

Recommendations:

- · Replace plaque.
- · Monitor for signs of leaders splitting out any further.



Tree #15 Mchrosideres excelsa Full Tree Evaluation Score Sheet

Condition Eval Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	21
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	9
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	15
Function	Minor	Useful	Important	Significant	Major	15
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						87

W10-200000	The second second	west-services.
Amenity	y Eva	luation

Points	3	9	15	21	27	Score
Stature (m)	3 to 8	9 to 14	15 to 20	21 to 26	27+	27
Visibility (km)	0.5	1.0	2.0	4.0	8.0	9
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	9
Role	Minor	Moderate	Important	Significant	Major	15
Climate	Minor	Moderate	Important	Significant	Major	9
Subtotal Points	5					69

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature • Feature						9
• Form						9
Historic • Age 100+						9
 Association 	5		350 -0 4004781			
Commemora	ition					
Remnant						
• Relict						
Scientific • Source						
Rarity						
Endangered	ı					
Subtotal Points						27
Total Points						183











Steel bracing attachment into Pohutukawa leader.

Tree Number 19 - Agathis australis

(Kauri)

Native

Location: Moutoa Gardens

Assessed by: Marc Higgie, Consultant Arborist, 18 March 2013

History:

"Planted by Lord Galway, Governor General of New Zealand (April 1935 – February 1941)." – Streets of Wanganui 1989 – Page 52

Visual Comments:

- Good single leadered Kauri
- · Still in its juvenile form but one of the larger in the area.
- · Plenty of room around it to develop.

Recommendations:

- The tree would benefit from less traffic over its root plate and thus a mulch circle would help.
- Monitor the tree for Kauri Dieback Disease and keep up to date with the disease progression/development throughout the country.
- Turf aeration and introduction of beneficial Mycorrhizal organisms may be an option to think about in the future.

Tree #19 Agathis australis. Full Tree Evaluation Score Sheet

Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	27
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	15
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	21
Function	Minor	Uscful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27

Amenity I	valua	tion
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Points	3	9	15	21	27	Score
Stature (m)	3 to 8	9 to 14	15 to 20	21 to 26	27+	15
Visibility (km)	0.5	1.0	2.0	4.0	8.0	9
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	9
Role	Minor	Moderate	Important	Significant	Major	15
Climate	Minor	Moderate	Important	Significant	Major	3
Subtotal Points						51

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
Feature						3
• Form						3
Historic						_
* Age 100+						9
 Association 						21
Commemorate	tion					-
Remnant						
Relict						
Scientific						_
Source						
 Rarity 						
 Endangered 						
Subtotal Points						36
Total Points						186



Agathis australis with Tree # 73 Washingtonia robusta behind.

Tree Number 26 – Quercus robur

(English Oak)

Exotic

Location: Moutoa Gardens (Pakaitore)

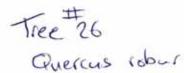
Assessed by: Marc Higgie, Consultant Arborist, 2 November 2012

History:

The inscription on the stone at the foot of the tree reads: "This oak was planted by the wife of Mr A. D. Willis, MHR, on Saturday 9 August 1902, to celebrate the signing of peace in South Africa." (1988 assessment).

- · Nice compact tree in good health.
- · Plaque at foot of tree no longer there.
- No cavities or rot noted.
- Some tip die back in crown.
- Could do with a deadwood and very minor crown thin.





Height - rom Wilth - zim

Full Tree Evaluation Score Sheet

Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	9
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	9
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	15
Function	Minor	Uscful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27

Amenity Evalu Points	3	9	15	21	27	Score
Stature (m)	3 to 8	9 to 14	15 to 20	21 to 26	27+	21
Visibility (km)	0.5	1.0	2.0	4.0	8.0	9
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	9
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	3
Subtotal Points		-				51

Recognition	Local	District	Regional	National	International	Score
Points	3	9	15	21	27	
Stature						
• Feature						
• Form						
Historic						
• Age 100+						3
 Association 						
Commemora	ition					27
• Remnant						
• Relict						
Scientific	,					
Source						
 Rarity 						
Endangered	i					
Subtotal Points						30
Total Points						15

Tree Number 27 - Quercus robur

(English Oak)

Exotic

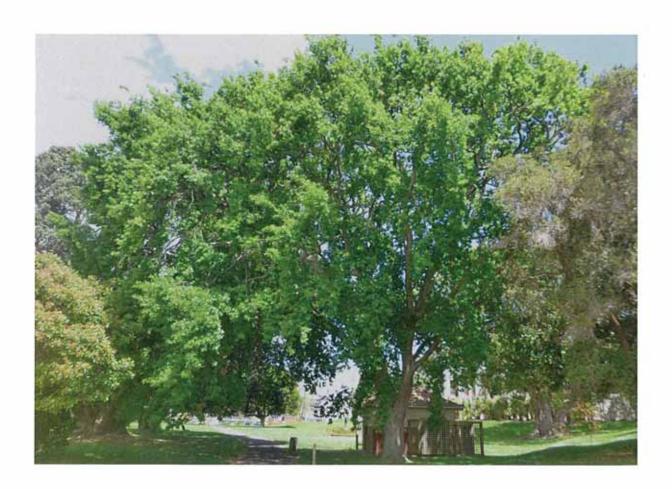
Location: Moutoa Gardens (Pakaitore)

Assessed by: Marc Higgie, Consultant Arborist, 2 November 2012

History:

Planted 6 August 1902 by the Mayoress, Mrs Hatrick, to commemorate the coronation of King Edward VII and Queen Alexandra (1988 assessment).

- Tree in good health with no sign of decay or cavities.
- Pronounced lean northwards.
- Fairly sparse above toilet block.
- · Some dieback in crown.
- Two small wounds on basal flare. Old and callousing well.
- Impressive network of branches.
- · Surroundings would be opened up with a deadwood and very minor crown thin.



Full Tree Evaluation Score Sheet

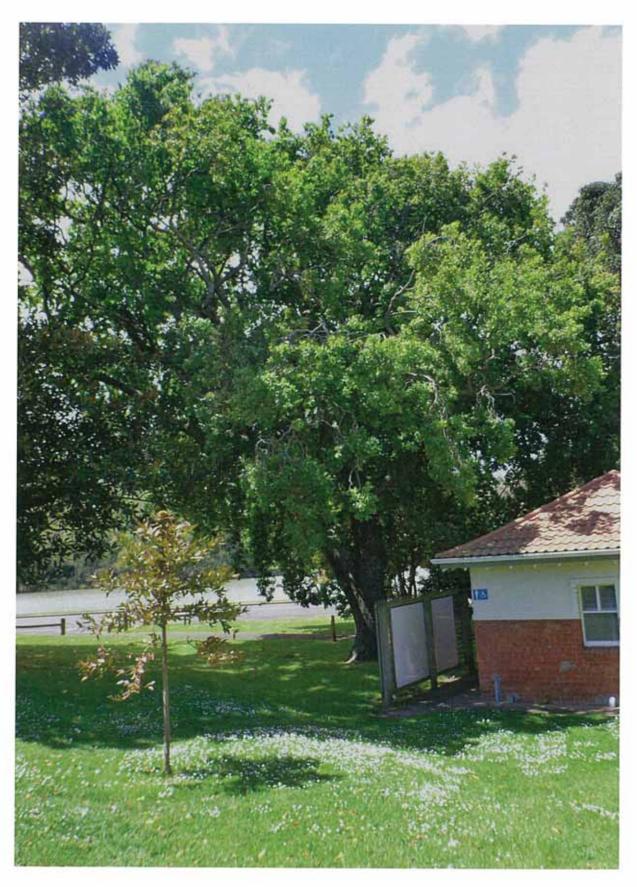
Quercus robur

Height (m) - Approxism
Aurosoge width (m) - 23

Condition Eval Points	uation 3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	15
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	9
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	15
Function	Minor	Useful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						75

Amenity Evaluation							
Points	3	9	15	21	27	Score	
Stature (m)	3 to 8	9 to 14	15 to 20	21 to 26	27+	21	
Visibility (km)	0.5	1.0	2.0	4.0	8.0	9	
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	9	
Role	Minor	Moderate	Important	Significant	Major	3	
Climate	Minor	Moderate	Important	Significant	Major	3	
Subtotal Points						47	

Notable Evalu		Division	427.07.3	0.000	D 100 B	i s
Recognition Points	Local 3	District 9	Regional	National	International	Score
	,	,	15	21	27	
• Feature						
• Form						
Historic • Age 100+						3
 Association 						3
Commemora	tion					# 27
Remnant						
• Relict						
Scientific • Source						
• Rarity						
Endangered						
Subtotal Points						36
Total Points						147



Showing situation and lean of tree.

STEM Evaluation for Wanganui Protected Trees Tree Number 73 – Washingtonia robusta (Mexican Fan Palm, Skyduster Palm) Exotic

Location: Moutoa Gardens

Assessed by: Marc Higgie, Consultant Arborist, 18 March 2013

History:

None known at this stage.

- · Very tall specimen for this area.
- Not perfectly straight but no pronounced lean.
- · Great that two seedlings of different ages have been left to regenerate and succeed.



Tree # 73
Washingtonia (obusta 12
Full Tree Evaluation Score Sheet

Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	21
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	15
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	21
Function	Minor	Useful	Important	Significant	Major	3
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						87

Amenity Evaluation						
Points	3	9	15	21	27	Score
Stature (m)	3 to 8	9 to 14	15 to 20	21 to 26	27+	21
Visibility (km)	0.5	1.0	2.0	4.0	8.0	9
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	9
Role	Minor	Moderate	Important	Significant	Major	3
Climate	Minor	Moderate	Important	Significant	Major	3
Subtotal Points						1

Notable Evalu	uation					
Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
Feature						39
• Form						3
Historic						_
• Age 100+						哥15
Association						11.5
Commemora	tion					
Remnant						_
• Relict						
Scientific						-
Source						
• Rarity						
 Endangered 						
Subtotal Points						1527
Total Points						X 2 10

Tree Number 83 - Vitex lucens

(Puriri)

Native

Location: Moutoa Gardens

Assessed by: Marc Higgie, Consultant Arborist, 21 March 2013

History:

No history known at this stage.

Visual Comments:

- · Nice tree, multi-branched and typical from for an open grown forest tree.
- · Large pruning wound callousing nicely.
- · Plaque all but grown in, may still be salvageable.
- There is extensive damage to exposed roots which could have been avoided had a mulch circle, to keep mowers and other traffic off, been put down. There is rot and decay setting into some of these roots.
- Large amount of seed present.

Recommendations:

- · Remove and replace plaque.
- · Deadwood and minor crown thin/formative prune.
- · Install mulch circle.



Trec # 83

Subtotal Points
Total Points

Full Tree Evaluation Score Sheet

Condition Eval						
Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	15
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	15
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	21
Function	Minor	Uscful	Important	Significant	Major	15
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	21
Subtotal Points						87
Amenity Evalu:	ation 3	9	15	21	27	Score
Stature (m)	3 to 8	9 to 14	15 to 20	21 to 26		
Visibility (km)	0.5	10	2.0	40	27+	3
Proximity	Forest	Parkland			8.0	
Role	Minor	Moderate	Group 10+	Group 3+	Solitary	9
Climate	Minor	Moderate	Important	Significant	Major	9
Subtotal Points	mulot	Moderate	Important	Significant	Major	9
Notable Evalua Recognition Points	ation Local 3	District 9	Regional 15	National 21	International 27	Score
* Feature						
• Form						3
* Age 100+						
 Association 						
Commemoration	on					
Remnant						
Relict						
Scientific						
Source						3
Rarity						
 Endangered 						4

