

STEM Evaluation for Wanganui Protected Trees

Tree Number 17 – *Metrosideros excelsa*

(Pohutukawa)

Native

Location: Road Reserve – 21 Tongariro

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

History:

“Planted in 1914 by Mrs Percival, this is the only tree in the area of any stature or age.” – Supplied (1988 assessment).

Visual Comments:

- Beautiful tree in an otherwise nondescript street and fits in well with its surroundings..
- Massive basal area with multi trunks.
- It is pushing out a rotten iron fence and if the fence were not there, passerbys would be able to admire it in its full.
- Some lower branches have been ripped and cut off.
- For the age score in the assessment I marked the 100 year plus section because it is only one year off being in that category.

Recommendations:

- Tidy the remaining stubs from old prunings/ripped off. This would both benefit aesthetically and for the health of the tree.
- Remove fence or section of that tree is growing into and pushing out.



Tree # 17

Metrosideros excelsa

Full Tree Evaluation Score Sheet

Condition Evaluation

Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	27
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	9
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	21
Function	Minor	Useful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						93

* 1914
'yrs. off.

Amenity Evaluation

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

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						9
Historic						
• Age 100+						9
• Association						3
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						21
Total Points						171





STEM Evaluation for Wanganui Protected Trees

Tree Number 20 – *Washingtonia robusta*

(Mexican Fan Palm, Skyduster Palm)

Exotic

Location: Road Reserve Hipango Terrace

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

History:

No history known at this stage.

Visual Comments:

- Most of the lower trunks have had damage to them in the past. These wounds are not as concerning as in a broadleaved tree. Palm wood structure comprises of vascular bundles that carry water nutrients and food sugars throughout the tree. A wound only compromises a small percentage of these bundles. Decay does not affect them in the same ways either.
- There are six trees listed for this site but, according to a resident, one morning the sixth lost its crown and the trunk was removed soon after.
- I didn't notice any seedlings but they must produce viable seed.
- There is space enough where Tree 6 was to plant the next generation.

Tree 1/5:

- Trunk has pronounced bend 2/3 up.
- Base has grown over drive curbing which has been cut away.
- Several old wounds on trunk up to 2m.
- Reflector attached and an old nail.

Tree 2/5:

- Very nice specimen, straight and tall with a good crown. Inflorescences present.
- It is growing into and pushing out a small brick wall at base.
- Ivy has been removed from trunk in the past but it is growing up again.
- Large wounds at base.

Tree 3/5:

- Good healthy palm with inflorescences present.
- Trunk near perfectly straight.
- Growing on grass verge but end of concrete is within 50mm.
- Old wounds and reflector present on lower trunk.

Tree 4/5:

- Very nice example. Flower inflorescences present.
- Slight wave in trunk higher up.
- Some, but far fewer, old wounds in base.
- Staple and piece of chain attached.
- On grass verge and over 100mm from concrete.

Tree 5/5:

- Very beautiful tree, appears smaller because it is further down the hill and because of this it is not as exposed and tatty as the others.
- It's crown is stunning and compact.
- Because of its "remote" location the trunk is wound free.
- A perfect example in all aspects.



Tree #20

12

Washingtonia robusta $\frac{1}{6}$
Full Tree Evaluation Score Sheet

Condition Evaluation

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	15
Function	Minor	Useful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						81

Amenity Evaluation

Points	3	9	15	21	27	Score
Stature (m)	3 to 8	9 to 14	15 to 20	21 to 26	27+	9
Visibility (km)	0.5	1.0	2.0	4.0	8.0	15 21
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	21
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	3
Subtotal Points						63

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						
Historic						
• Age 100+						9
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						9
Total Points						153

Tree# 20

2/6

Full Tree Evaluation Score Sheet

Condition Evaluation

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	Useful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						99

Amenity Evaluation

Points	3	9	15	21	27	Score
Stature (m)	3 to 8	9 to 14	15 to 20	21 to 26	27+	7
Visibility (km)	0.5	1.0	2.0	4.0	8.0	21
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	21
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	3
Subtotal Points						63

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						39
Historic						
• Age 100+						9
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						18
Total Points						180

Tree #20

3/5

Full Tree Evaluation Score Sheet

Condition Evaluation

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	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						93

Amenity Evaluation

Points	3	9	15	21	27	Score
Stature (m)	3 to 8	9 to 14	15 to 20	21 to 26	27+	9
Visibility (km)	0.5	1.0	2.0	4.0	8.0	21
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	21
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	3
Subtotal Points						63

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						9
Historic						
• Age 100+						9
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						18
Total Points						174

Tree # 20

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4/5

Full Tree Evaluation Score Sheet

Condition Evaluation

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	Useful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						99

Amenity Evaluation

Points	3	9	15	21	27	Score
Stature (m)	3 to 8	9 to 14	15 to 20	21 to 26	27+	9
Visibility (km)	0.5	1.0	2.0	4.0	8.0	21
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	21
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	3
Subtotal Points						63

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						9
Historic						
• Age 100+						9
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						18
Total Points						180

Tree #20 5/5

Full Tree Evaluation Score Sheet

Condition Evaluation

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	27
Function	Minor	Useful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						105

Amenity Evaluation

Points	3	9	15	21	27	Score
Stature (m)	3 to 8	9 to 14	15 to 20	21 to 26	27+	9
Visibility (km)	0.5	1.0	2.0	4.0	8.0	15
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	15
Role	Minor	Moderate	Important	Significant	Major	9
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						
• Form						3
Historic						
• Age 100+						9
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						12
Total Points						158



From left to right: Trees 3,4,2 and 1.



Damage to trunk of Tree 3.



Damage to trunk of Tree 2.



Trunk of Tree 5.



Tree 5.

STEM Evaluation for Wanganui Protected Trees

Tree Number 34 – *Quercus robur*

(English Oak)

Exotic

Location: 5 Purua Street

Assessed by: Marc Higgie, Consultant Arborist, 24 June 2013

History:

"The property used to belong to David Durie, the first judge in Wanganui, who lived there and could have planted these two oak trees." – Darryl Dowman (owner).

Visual Comments:

- Both trees are on a hillside in open pasture which is lightly stocked.
- Both trees have good lower trunks with little or no damage to them.
- Both trees have some sizeable deadwood in their canopy. There is little use under them and the risk of damage is minimal.

Tree 1

- A magnificent tree with great form and good, single leadered structure.
- It grows on a slight lean due to the prevailing wind.
- The tree has great root flare all around the trunk.
- There are two large branch failures which have left stubs, one at least four metres in length. They should be tidied up.
- There is a very old wound (included branch failure?) high in the canopy which has calloused very well but is weeping slightly.

Tree 2

- This is a handsome tree albeit with poor form. Three leaders from 2-4m.
- It is growing on a pronounced lean due to the prevailing wind.
- The tree has good internal branch structure.
- This tree has slightly different bark characteristics and could possibly be a *Quercus robur* hybrid.
- There have been three large failures with large stubs remaining which should be tidied up.
- There are two other large branches which have been removed after the branch failed.
- The tree is fairly close to high voltage power lines but is highly unlikely to enter the MAD's.

Recommendations:

- Tidy up stubs from branch failures.
- Deadwood prune but this is not high priority.

Tree #34 *Quercus robur*
Full Tree Evaluation Score Sheet

Condition Evaluation

Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	27
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	9
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	21
Function	Minor	Useful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						93

Amenity Evaluation

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	27
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	3
Subtotal Points						63

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						3
• Form						9
Historic						
• Age 100+						3
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						15
Total Points						171

Tree # 34 *Quercus robur* (hybrid)
 Full Tree Evaluation Score Sheet

Condition Evaluation

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	21
Function	Minor	Useful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						75

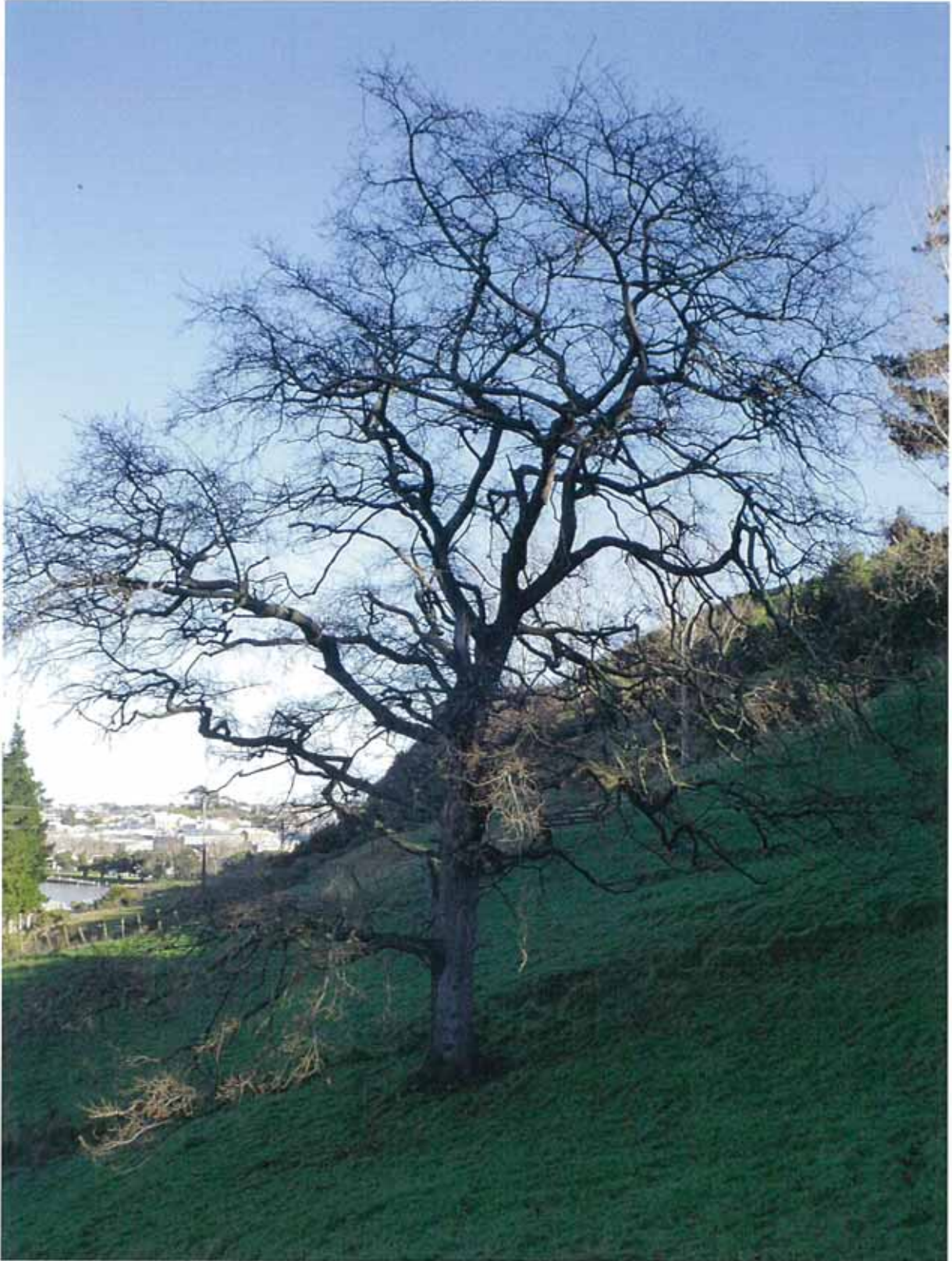
Amenity Evaluation

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

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						
Historic						
• Age 100+						3
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						3
Total Points						135

Tree 1





(Left) Showing old wound calloused over high in canopy. (Right) Lower trunk of tree.

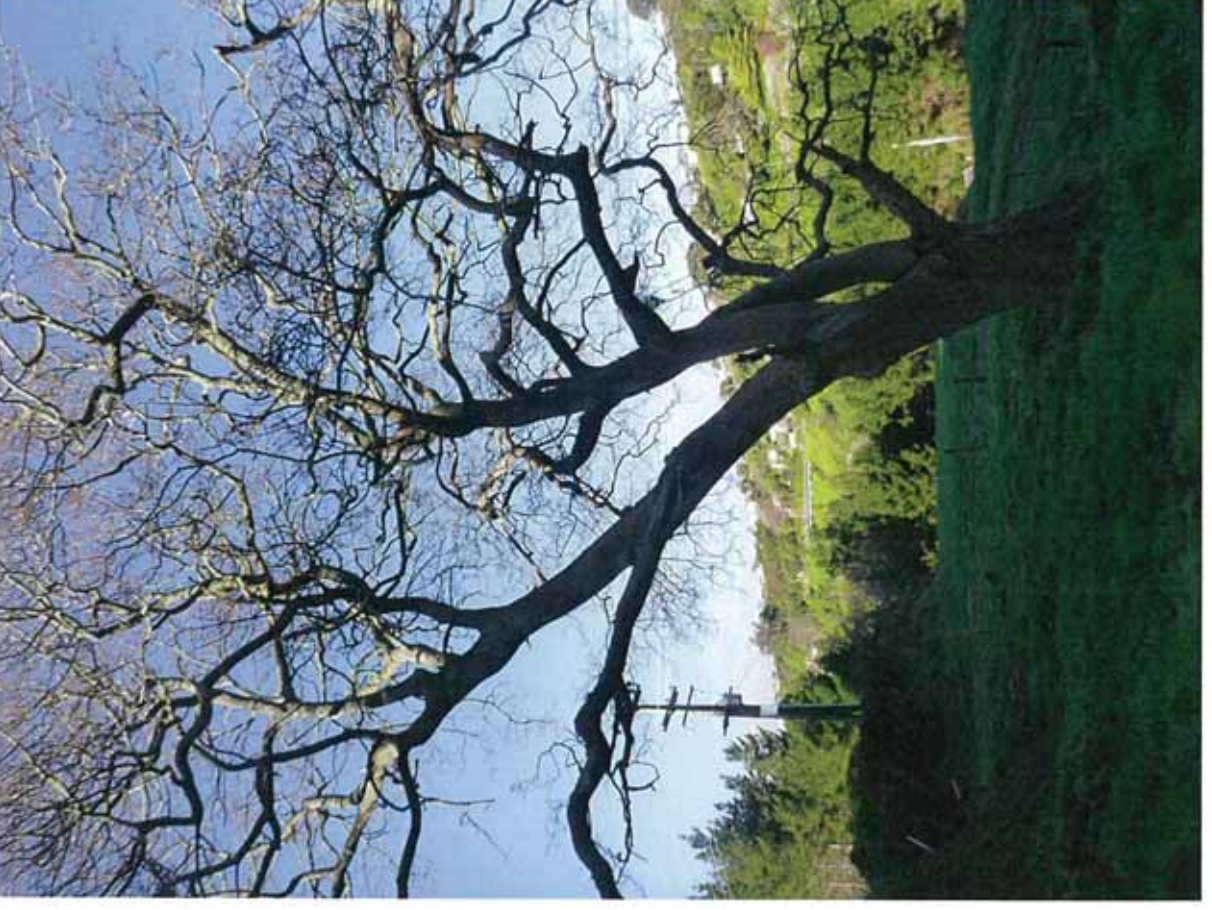
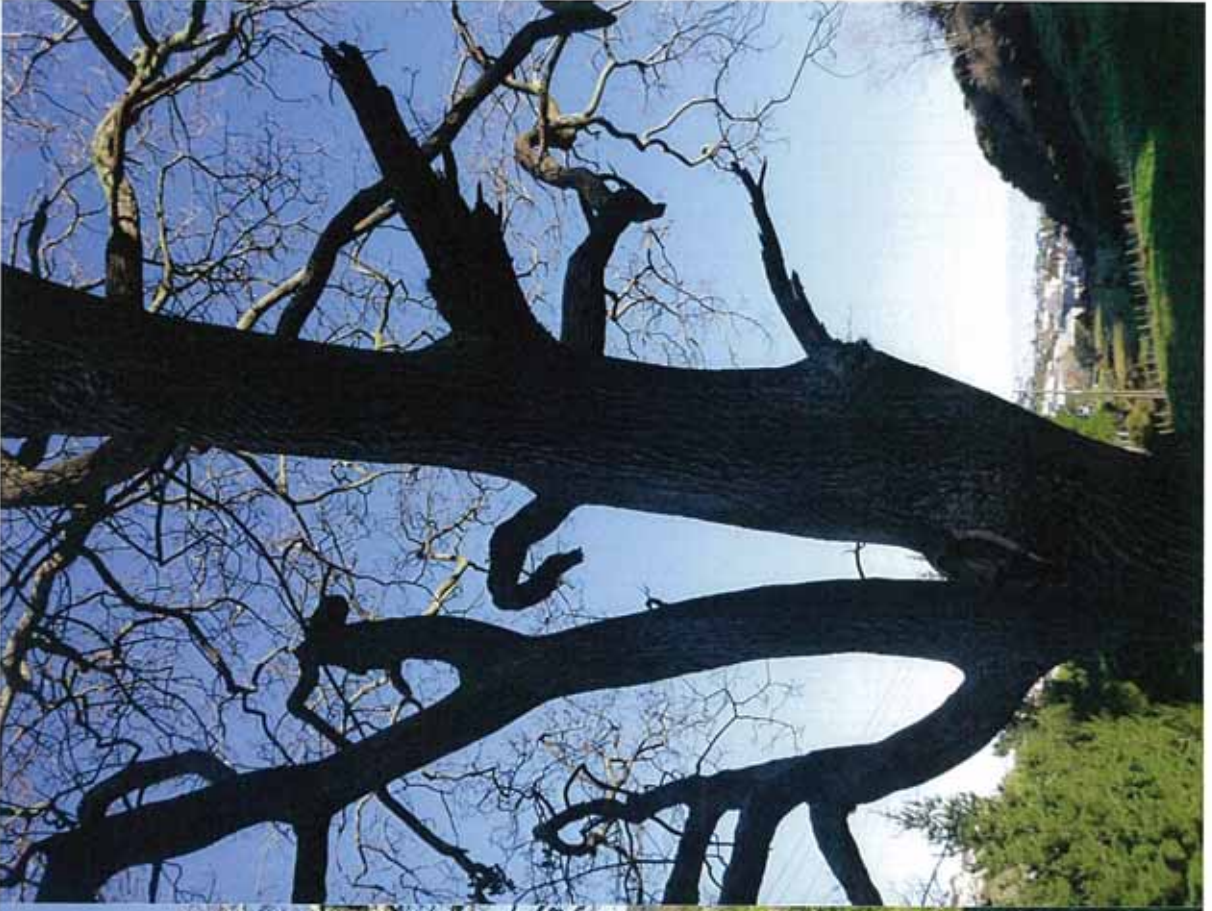
Showing branch failures and resulting stubs.

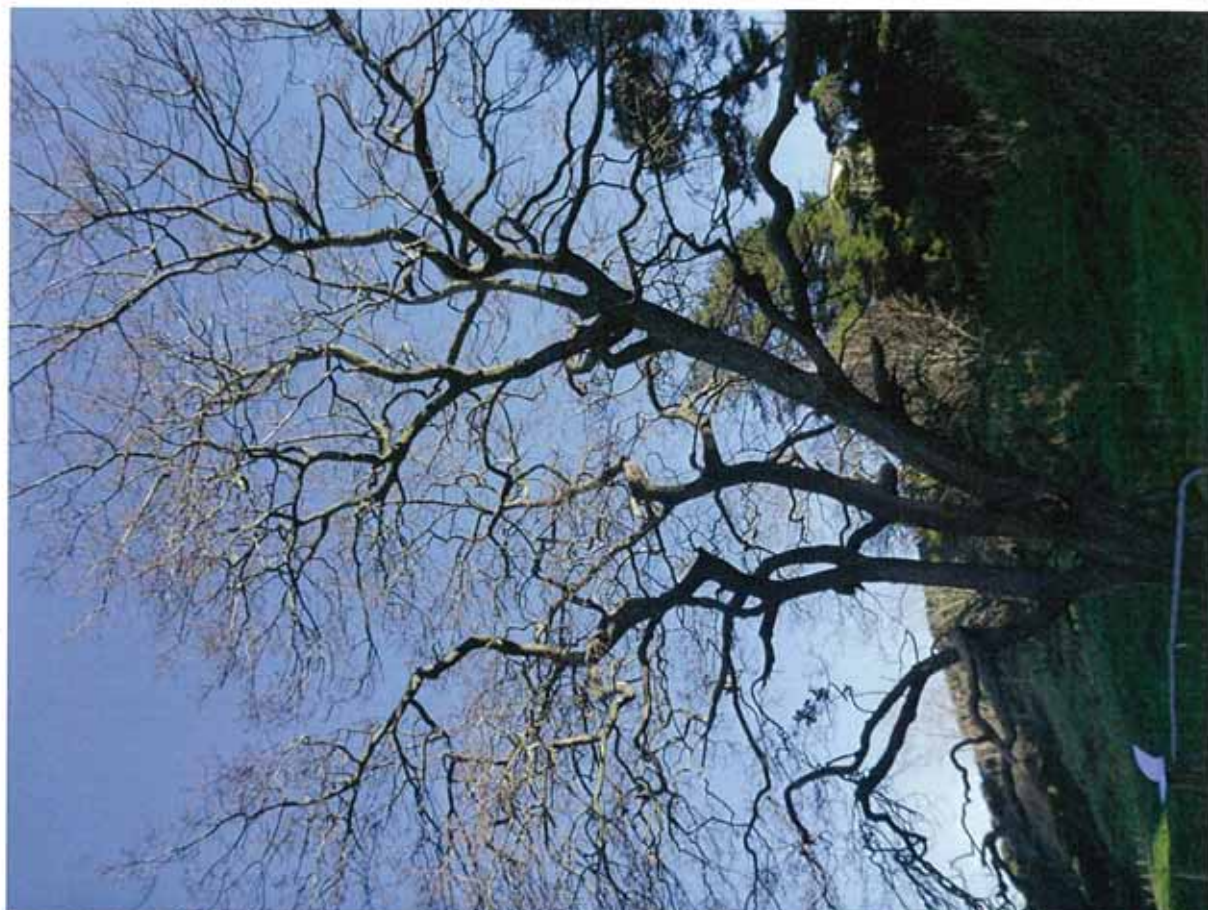


Trees 1 (left) and 2.

Tree 2







STEM Evaluation for Wanganui Protected Trees

Tree Number 121 – *Metrosideros excelsa*

(Pohutukawa)

Native

Location: Corner Mosston Road and Puriri Street

Assessed by: Marc Higgle, Consultant Arborist, 10 May 2013

History:

None known at this stage.

Visual Comments:

- The tree is very misshapen due to power line clearing pruning. It would otherwise have a nice shape and structure.
- A large branch above the garden has died off but there are adventitious growths sprouting from older wood. The branch may have had a garden rubbish fire underneath it which caused the foliage to die off.
- The tree has an impressive base but there are sacks growing into the main trunk union and pieces of timber have been attached in the union also.
- There are epicormic growths starting on the main trunk.
- There are three large stubs over the footpath which should be tidied up and reduced back to a growth point.
- The epicormic growth under the power lines is clear of the lines at the moment but will need to be pruned before too long.
- There is no plaque.

Recommendations:

- Prune growth that will grow into the power lines before it gets too big and close to the lines.



Tree # 121 *Metrosideros excelsa*

Full Tree Evaluation Score Sheet

Condition Evaluation

Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	3
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	9
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	15
Function	Minor	Useful	Important	Significant	Major	3
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	21
Subtotal Points						51

Amenity Evaluation

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

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						
Historic						
• Age 100+						
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						0
Total Points						108





