

STEM Evaluation for Wanganui Protected Trees
Tree Number 25 – *Sequoia sempervirens* (3 trees)
(Californian Redwood, Coast Redwood)

Exotic

Location: James McGregor Memorial Park

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

History:

None known at this stage.

Visual Comments:

- Three very nice even trees planted at a great spacing.
- Very good health.
- Much epicormic growth has been cut back at the base of all the trees.
- All three are single leadered.
- They are probably not the biggest redwoods in the park but they are great specimens and a very impressive group together.
- There is some wind-shear in their tops.



Tree #25 *Sequoia sempervirens*
 Full Tree Evaluation Score Sheet

3 trees

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	15
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+	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	9
Climate	Minor	Moderate	Important	Significant	Major	9
Subtotal Points						63

Notable Evaluation

Recognition Points	Local	District	Regional	National	International	Score
	3	9	15	21	27	
Stature						
• Feature						9.3
• Form						39
Historic						
• Age 100+						39
• Association						9
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						30
Total Points						198



STEM Evaluation for Wanganui Protected Trees

Tree Number 37 – *Fraxinus angustifolia*

(Narrow-leaved Ash)

Exotic

Location: James McGregor Memorial Park

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

History:

None known at this stage.

Visual Comments:

- Massive tree for its species.
- It has poor form but one of the main leaders is an impressive tree on its own.
- No basal flare suggests the soil level has been built up, possibly due to flooding. Collar rot could become a future issue.
- Very healthy tree otherwise.
- There was a fatal car collision with this tree a number of years ago. Some of the painted tributes/memorials to those who passed away are still visible on the lower trunk.



Tree # 37

Fraxinus angustifolia

Full Tree Evaluation Score Sheet

Condition Evaluation

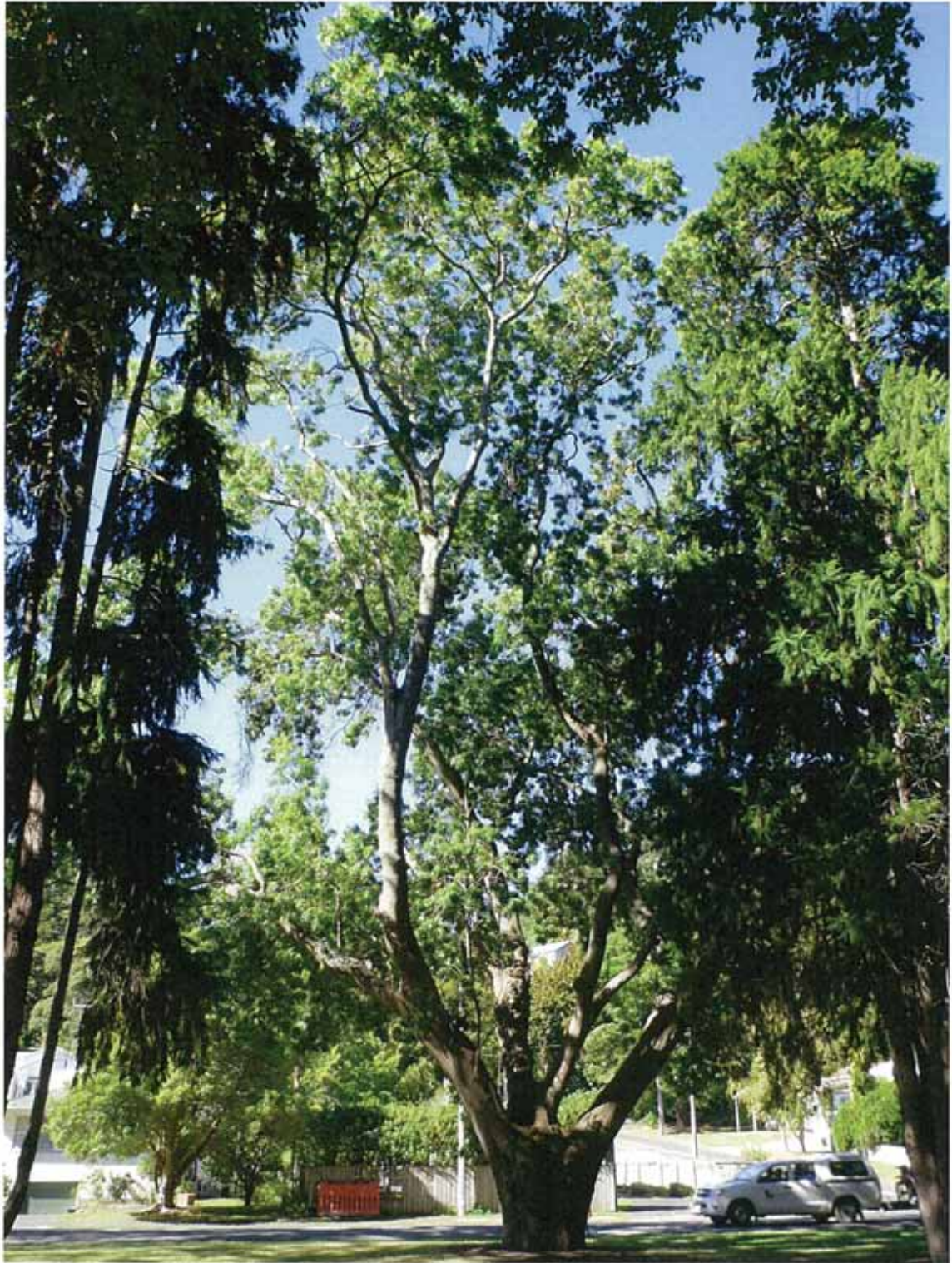
Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	3
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	15
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	15
Function	Minor	Useful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						69

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	3
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	9
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	9
Subtotal Points						51

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						21
• Form						3
Historic						
• Age 100+						15
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						39
Total Points						159







STEM Evaluation for Wanganui Protected Trees

Tree Number 42 – *Quercus canariensis*

(Algerian Oak, Canary Oak)

Exotic

Location: James McGregor Memorial Park

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

History:

None known at this stage.

Visual Comments:

- Impressive large tree however its form is poor with multiple branches which have turned apical.
- It is in excellent health with no major cavities or decay.
- It has a massive spread.
- There are a number of rubbing and partially grafted branches in the canopy.
- Most probably a hybrid with another oak species.
- The plaque has nearly been fully grown over and is beyond retrieval.
- The tree was used for the Aerial Rescue discipline of the 2012 NZ Regional Tree Climbing competition which was staged in this area of the park in October 2012.

Recommendations:

- A new plaque is needed.
- Monitor the grafted/rubbing branches for possible failures.



Tree #42

Quercus cananensis

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	21
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						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+	27
Visibility (km)	0.5	1.0	2.0	4.0	8.0	3
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	9
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						9
• Form						3
Historic						
• Age 100+						9
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						21
Total Points						159





An example of the grafted/rubbing branches present in the canopy.

STEM Evaluation for Wanganui Protected Trees

Tree Number 44 – *Sciadopitys verticillata*

(Japanese Umbrella Pine)

Exotic

Location: James McGregor Memorial Park

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

History:

"A fine tree and one of the largest recorded in New Zealand." – 1988 assessment.

Visual Comments:

- Great specimen and it is thought to be the largest in New Zealand.
- It does not have great form with three leaders and another higher up.
- It is being suppressed on one side by a good specimen of *Phyllocladus trichomanoides* and a protected tree # 74, *Phoenix canariensis*. Removal of one large branch and other minor branches on the *Phyllocladus trichomanoides* would open both trees up and allow the Umbrella pine to grow into a better shape.
- There are some cones visible. It has set viable seed before.
- The plaque is growing in.
- Impressive to see that size here.

Recommendations:

- Some branch removals in the nearby *Phyllocladus trichomanoides* would allow better growth in the umbrella pine.
- Ultimately, the removal of the protected *Phoenix canariensis* would allow both the *Phyllocladus trichomanoides* and *Sciadopitys verticillata* to grow into specimen trees.

Tree # 44 *Sciadopitys vesticillata*
 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	27
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

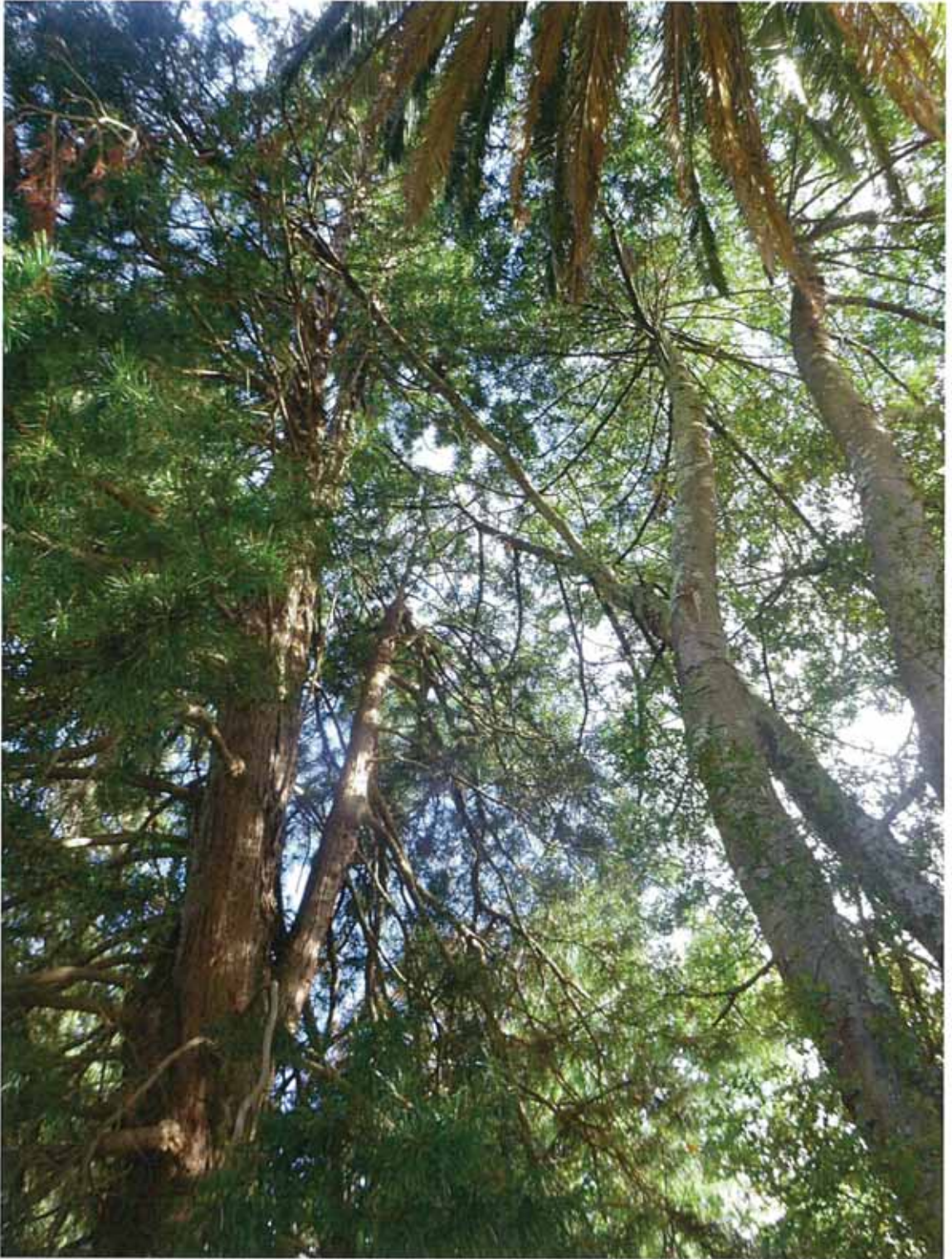
Amenity Evaluation

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	3
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						33

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						21
• Form						21
Historic						
• Age 100+						21
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						9
• Rarity						9
• Endangered						
Subtotal Points						81
Total Points						213





STEM Evaluation for Wanganui Protected Trees

Tree Number 45 – *Taxodium distichum*

(Bald Cypress, Swamp Cypress)

Exotic

Location: James McGregor Memorial Park

Assessed by: Marc Higgle, Consultant Arborist, 14 May 2013

History:

"Burstall described this as one of the best trees in the park." – 1988 assessment.

Visual Comments:

- Very large and impressive tree.
- Three leaders from approximately 5metres.
- One of the tips of the leaders has snapped out but the others appear intact and healthy.
- Very large butt log.
- No "knees" (pneumatophores - aerial roots which have come from underground) visible.
- Some exposed roots have been damage but otherwise the base in in excellent condition.
- Amazing internal structure in the canopy.
- Equally impressive *Metasequoia glyptostoboides* (Dawn Redwood) next to it.



Tree #45

Taxodium distichum
Full Tree Evaluation Score Sheet

Condition Evaluation

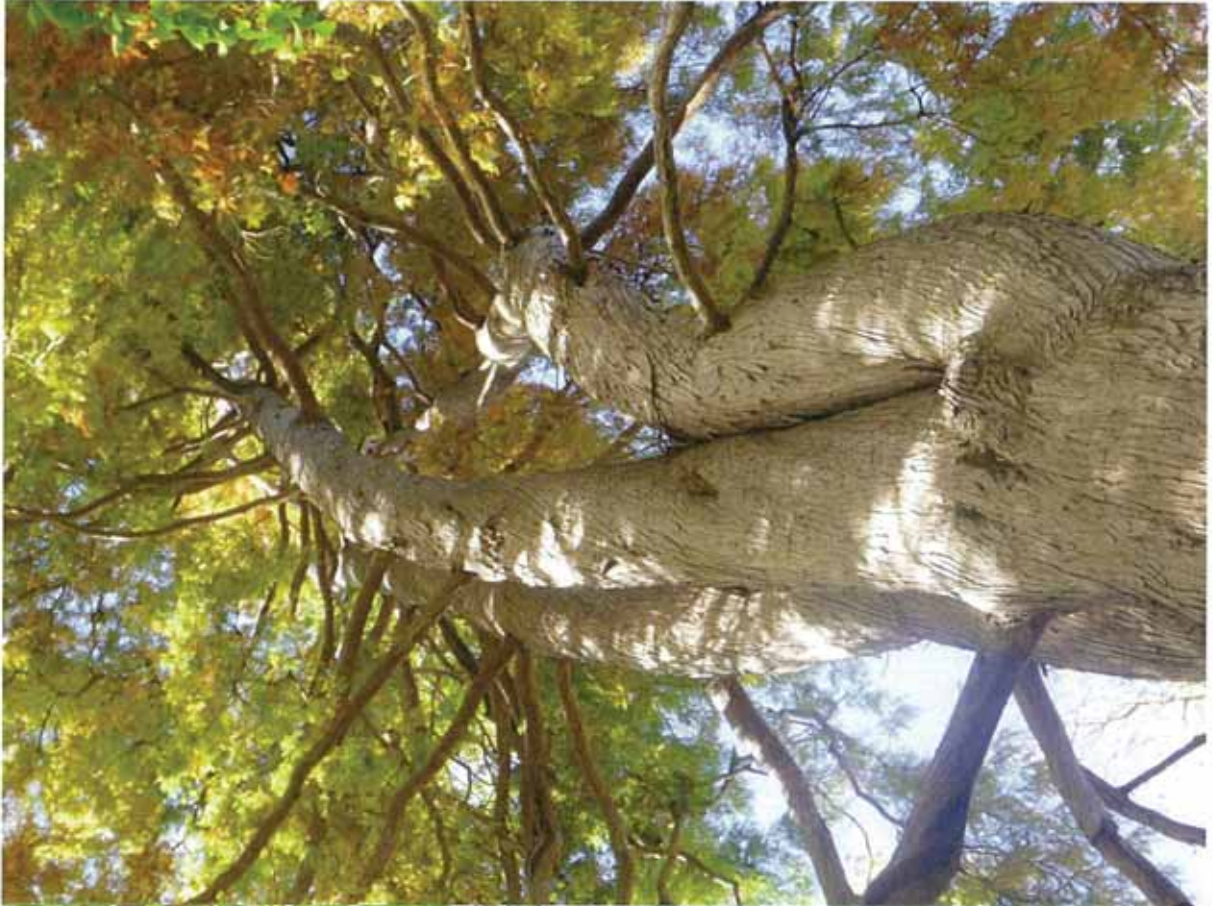
Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	15
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	15
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	21
Function	Minor	Useful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal 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	3
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						45

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						15
• Form						15
Historic						
• Age 100+						15
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						45
Total Points						177



STEM Evaluation for Wanganui Protected Trees

Tree Number 47 – *Maytenus boaria*

(Mayten)

Exotic

Location: MacGregor Park

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

History:

None known at this stage.

Visual Comments:

Tree 1 (larger):

- Massive tree for species. Many Mayten trees in New Zealand do not get big because they have included bark unions and poor form. This is probably due to poor stock selection when it was brought in.
- This tree has mostly good unions and is a good selection to keep going for propagation in New Zealand.
- There is a large included bark failure visible approx. 5m up.
- There is a large wound (possibly an old removed leader) at 0.5m that has considerable decay and some old fungal fruiting bodies present.
- Because of its location with low use/target underneath, I suggest it be monitored and left standing as long as possible.
- The two leaders have been cable braced a number of years ago. It appears to be holding well and no rot or decay is visible at the bolts entry and exit areas.
- Plaque has nearly grown over.

Tree 2:

- Again an impressive tree but not when it is shadowed by its pair.
- Not great from/structure but branch unions are good.
- Appears to have had an equal or larger sized trunk fail/removed at ground level. This would explain its poor form. So far decay is minimal.
- Large exposed roots have been damaged by mowers.

Recommendations:

- Consider propagating from Tree 1 for replacement and other plantings.
- Reposition plaque.
- Review mower cutting heights or install large mulch circle around trees.

Tree # 47

Maytenus boaria larger

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	21
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						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+	21
Visibility (km)	0.5	1.0	2.0	4.0	8.0	3
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	9
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	9
Subtotal Points						51

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						21
• Form						21
Historic						
• Age 100+						21
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						9
• Rarity						
• Endangered						
Subtotal Points						72
Total Points						222

Tree # 47

Mythenus boaria - Mythen, Maiten
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	21
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						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+	15
Visibility (km)	0.5	1.0	2.0	4.0	8.0	3
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	9
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	9
Subtotal Points						45

Notable Evaluation						
Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						9
• Form						3
Historic						
• Age 100+						21
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						3
• Rarity						
• Endangered						
Subtotal Points						36
Total Points						162



Tree 1.



Tree 1.



Tree 1



Tree 2 showing removed/failed trunk.



Tree 2.

STEM Evaluation for Wanganui Protected Trees

Tree Number 48 – *Syzygium ventenatii*

(Synonyms: *Waterhousea floribunda*, *Syzygium floribunda*, *Eugenia ventenatii*)

(Weeping Lilly Pilly)

Exotic

Location: James McGregor Memorial Park

Assessed by: Marc Higgle, Consultant Arborist, 14 May 2013

History:

None known at this stage.

Visual Comments:

- Impressive tree albeit very messy interior structure with its network of leaders. There are numerous apical epicormic growths that have been left to grow to a large size.
- Large basal girth.
- Unchecked in the assessment but it has had seedlings under it in the past and could be a potential seed source.
- The tree has received pruning to lift the lower branches and has sadly lost its weeping form.
- It is growing in close proximity to other trees and is misshapen because of this.
- There is some damage to the root buttresses.
- Some dieback is present in the more exposed branch tips.
- This tree is widely used in New Zealand as a hedging plant and there are some recent cultivars released here.



Tree # 48 *Syzygium venenatum*
~~Acacia~~
 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	21
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+	21
Visibility (km)	0.5	1.0	2.0	4.0	8.0	3
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	9
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	9
Subtotal Points						51

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						15 21
• Form						15
Historic						
• Age 100+						15
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						51
Total Points						183





STEM Evaluation for Wanganui Protected Trees

Tree Number 54 – *Picea smithiana*

(West Himalayan Spruce)

Exotic

Location: Kowhai Park

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

History:

No history known at this stage.

Visual Comments:

- It is unclear how many trees are in this listing but there appear to be at least eight originally. There are five remaining, all of which, I assessed.

Tree 1/5:

- Well-structured tree.
- Very sparse compared to neighbouring tree of same species.
- Trunk on slight lean at ground level and anchoring the lean is a main root which has rotted out. On closer inspection, I found the rot to be more substantial and structural than first appeared. Because of its location and multiple targets, I recommend immediate removal of the whole tree.

Tree 2/5:

- Handsome tree marred only by the close proximity of its neighbour which has suppressed some side branches.
- Excellent canopy health with some cones present.
- Excellent basal flare but some exposed roots have been damaged.

Tree 3/5:

- Nice but un-symmetric tree growing on a lean over the castle moat. The tree has self-straightened itself higher up.
- Healthy canopy with cones.

Tree 4/5:

- Well-structured tree but in poor health.
- Canopy very sparse and lots of dead branches and/or branch dieback.
- It is situated in a low risk location so its health can be monitored.

Tree 5/5:

- This tree is in serious decline. The canopy is very sparse and there is much dieback.
- Tree is on a pronounced lean towards Anzac Parade.
- It appears that some years ago there was a partial root plate failure which left the tree on its present lean.
- There are no cracks in the soil to indicate recent movement. The tree should at least be closely monitored but I would recommend its removal before any failures occur.

Recommendations:

- Removal of Tree 1/5.
- Install mulch circle around Tree 2/5.
- Monitor Tree 4/5's health with view of possible removal.
- Monitor or, preferably, removal of Tree 5/5.



Tree 1/5 (left) and Tree 2/5.

Tree #54

12

West

Himalayan Spruce.

1/5

Closest to curb.

Full Tree Evaluation Score Sheet *Picea smithiana.*

Condition Evaluation

Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	15
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	21
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	9
Function	Minor	Useful	Important	Significant	Major	3
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	21
Subtotal Points						69

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	3
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						51

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						3
Historic						
• Age 100+						
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						3
Total Points						123

Tree #54

14
2/3

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	21
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	21
Function	Minor	Useful	Important	Significant	Major	19
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	21
Subtotal Points						89

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	3
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						51

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						15
Historic						
• Age 100+						
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						15
Total Points						159

Tree # 54

$\frac{3}{5}$ "Castle
On Island"

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	21
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						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	3
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						33

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						3
Historic						
• Age 100+						
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						9
Total Points						117



Tree 3/5.

Tree # 54

Tree # 4/5 close to railway tracks

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	21
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	9
Function	Minor	Useful	Important	Significant	Major	3
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	21
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	3
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						33

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						3
Historic						
• Age 100+						
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						3
Total Points						111



Tree 4/5.

Tree #54

S/S

Closest to Anzac Pl.

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	21
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	3
Function	Minor	Useful	Important	Significant	Major	3
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	21
Subtotal Points						63

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	3
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						33

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						
Total Points						96



Tree 5/5.



Tree 5/5 showing depression (right of trunk) and rise (left of trunk) which indicate a past partial root plate failure.



Tree 1/5 showing extensive rot on anchoring side of root plate.

STEM Evaluation for Wanganui Protected Trees

Tree Number 56 – *Cedrus atlantica*

(Atlantic Cedar, Atlas Cedar)

Exotic

Location: MacGregor Park

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

History:

No history known at this stage.

Visual Comments:

- Impressive tree but not very good structure.
- Large tree with four main leaders from 2-3m.
- Large, old pruning wounds 2-5m up trunk.
- There are approximately four other cedars close by with one being a particularly impressive single leadered specimen tree.



Tree #56

Cedrus atlantica

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+	21
Visibility (km)	0.5	1.0	2.0	4.0	8.0	3
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	9
Role	Minor	Moderate	Important	Significant	Major	3
Climate	Minor	Moderate	Important	Significant	Major	9
Subtotal Points						45

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						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						15
Total Points						141



STEM Evaluation for Wanganui Protected Trees

Tree Number 57 – *Gleditsia triacanthos*

(Honey Locust)

Exotic

Location: Kowhai Park

Assessed by: Marc Higgle, Consultant Arborist, 22 May 2013

History:

None known at this stage.

Visual Comments:

- Lovely big specimen.
- Two leaders from 2metres but they have good branch attachments and good structure throughout the tree.
- There is evidence of two large failures in the past.
- A large branch has been removed in the past approximately 2m up.
- It is growing on a lean but there is good root flare all around indicating that it has good anchorage.
- There is some old and more recent damage to the outer buttresses.
- There is a possible witches broom growth high in the canopy.
- There is a cavity approximately 5m up facing the Dublin Street bridge.
- The tree is in excellent health but it is reaching an age where it could begin to decline at any time or after a climatic event such as a storm that causes large failures.



Tree # 57 *Aled. tsia triacanthos*
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+	15
Visibility (km)	0.5	1.0	2.0	4.0	8.0	3
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						33

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						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						27
Total Points						153





Possible witches broom growth high in canopy.



Showing two past branch failures (left and middle limb).

STEM Evaluation for Wanganui Protected Trees

Tree Number 69 – *Araucaria bidwillii*

(Bunya, Bunya Bunya)

Exotic

Location: James McGregor Memorial Park

Assessed by: Marc Higgle, Consultant Arborist, 14 May 2013

History:

None known at this stage.

Visual Comments:

- Good single leadered specimen although it is growing on a pronounced lean towards roadway.
- Fairly sparse internal canopy, probably due to age and exposure. The lower foliage is more luxuriant.
- There are some epicormic growths on old wounds at the base of the trunk.
- There is considerable damage to exposed roots. Some have rotted out. This damage is still happening – a weedeater had made fresh wounds which were flowing with sap. A big mulch circle would help alleviate this.
- Good sized butt log.

Recommendations:

- Install mulch circle around base of tree.



Tree # 69 *Araucaria bidwillii*
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 21
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+	15
Visibility (km)	0.5	1.0	2.0	4.0	8.0	3
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	9
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	9
Subtotal Points						45

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						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						15
Total Points						147





Top photo showing old damage and subsequent decay of root. Bottom photo showing older damage and fresh damage with sap flow.



STEM Evaluation for Wanganui Protected Trees

Tree Number 74 – *Phoenix canariensis*

(Canary Island Date Palm)

Exotic

Location: James McGregor Memorial Park

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

History:

None known at this stage.

Visual Comments:

- Typical mature Phoenix.
- Unsure why this tree was listed when it is suppressing the much rarer Tree # 44 *Sciadopitys verticillata* and there are many other more rare and special trees close by.



Tree # 74 Phoenix Conservancy
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	9
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						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	3
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						27

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						3
Historic						
• Age 100+						3
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						6
Total Points						117