

# STEM Evaluation for Wanganui Protected Trees

## Tree Number 90 – *Quercus robur*

### (English Oak)

### Exotic

## Location: Corner of Great North Road and Virginia Road

Assessed by: Marc Higgle, Consultant Arborist, 4 April 2013

#### History:

The intention was to provide a tablet to be used in connection with the proposed memorial avenue of trees then planned to stretch between Wellington and Auckland. The table was to be inscribed to the memory of those members of the Brigade who had died during the First World War. Negotiations with those promoting the memorial avenue scheme had led to an agreement that the Rifle Brigade memorial would be sited next to the original tree in the memorial avenue, this tree having been planted by Viscount Galway, G.C.M.G, D.S.O, O.B.E. Rifle Brigade members planned to erect what at that stage was simply a memorial of stones, and to attach the plate they were to provide, to the stonework. - *Evening Post*, 24 July 1935, p. 5

The *Evening Post* of 17 May 1935 (p. 11) records that Viscount and Viscountess Galway were to spend time in Wanganui on that day, including a civic reception, and this is likely to mark the planting of the oak tree that stands – or stood - behind the memorial.

#### Visual Comments:

- Great structured tree. Great network of branches.
- Heavy acorn crop present.
- Memorial seat built very close to base of trunk, may be an issue, in 15 years or more, when the trunk grows.
- Good clearance from 1100Kv and 400v power lines.
- Past pruning wounds sealing nicely.

Tree #90 *Quercus robur*  
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	15
Function	Minor	Useful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	<del>27</del> 21
Subtotal Points						<del>87</del> 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	9
Climate	Minor	Moderate	Important	Significant	Major	9
Subtotal Points						69

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						3
• Form						9
Historic						
• Age 100+						<del>3</del>
• Association						27
• Commemoration						27
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						<del>36</del> 66
Total Points						<del>177</del> 210









**STEM Evaluation for Wanganui Protected Trees**  
**Tree Number 71 – *Quercus robur* and *Quercus cerris* X**  
**(English Oak and Turkey Oak)**

**Exotic**

**Location: Queens Park**

Assessed by: Marc Higgle, Consultant Arborist, 25 March 2013. Amended on 24 February 2014

**History:**

A 1919 newspaper states that the mayoress planted these "Victory Oaks" in Queens Park in commemoration of WWI.

**Visual Comments:**

- All of these trees with the exception of Tree 1, have cars parking and driving over much of their rootplate. Soil compaction will very likely be having a detrimental effect on their health and as a result they may start to decline. Excluding vehicles from driving and parking and aerating their combined rootplates may contribute to a prolonged life for the trees.

Tree 1/5:

- *Quercus robur*.
- Good well branched tree. Fairly dense with a bit of deadwood.
- Branches on open side have grown much larger than on the other side which are being suppressed by the other oaks in the group.
- Plaque is starting to grow in.

Tree 2/5:

- Most probably *Quercus cerris* X – a Turkey Oak hybrid.
- Handsome and interesting tree.
- Very coarse and segmented bark.
- It's growth has been pushed out by the other trees in the group and has a pronounced lean.
- Large old pruning wounds callousing over very well.
- Branches on downside are long and weighty with not much weight on the topside of the tree.
- Cars park underneath so soil compaction will be an issue and could cause early decline.

Tree 3/5:

- *Quercus robur*.
- Tree is very one sided due to close proximity of other oaks in the group. On a slight lean.
- Canopy a little sparse, past failures have opened up canopy.
- There is a large branch that has had a failure and the remaining wood has split and is resting on another branch. This is directly over the carpark and should be removed immediately.
- Other branches over carpark are long and weighty.
- Cars are driving over and parking on 100% of its root plate.



Tree 4/5:

- Most probably *Quercus cerris* X – a Turkey Oak hybrid.
- Similar to Tree 2 in this group but leaves are much courser on this one.
- Tree on a downwards lean.
- Good branch structure and old pruning wounds are callousing very nicely.
- Some compaction issues from cars on downside.

Tree 5/5:

- Most probably *Quercus cerris* X – a Turkey Oak hybrid.
- Similar to Tree 2 and 4 but the bark is smoother.
- Two leadered from 3.5m and branches have grown out from the other trees in the group.
- Canopy becoming a little sparse.

**Recommendations:**

- On Tree 3, remove split and hanging branch over carpark and monitor for further sign of decline.
- Reposition all plaques and monitor their health.
- Consider options to alleviate soil compaction issues.



Tree 1/5.

Tree # 71 *Quercus robur*  $\frac{1}{5}$   
 Full Tree Evaluation Score Sheet

100/50  
 03  
 02  
 01/1/1

**Condition Evaluation**

Points	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 21
Subtotal Points						75 60

**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	15
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	15
Subtotal Points						51

**Notable Evaluation**

Recognition Points	Local	District	Regional	National	International	Score
Stature						
• Feature						
• Form						3
Historic						
• Age 100+						3
• Association						9
• Commemoration						27
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						6 42
Total Points						132 153

Tree # 71 *Quercus* sp (hybrid?) - *ceris*  
~~alba~~  $\frac{2}{3}$   
 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	9
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	9
Function	Minor	Useful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	2721
Subtotal Points						6963

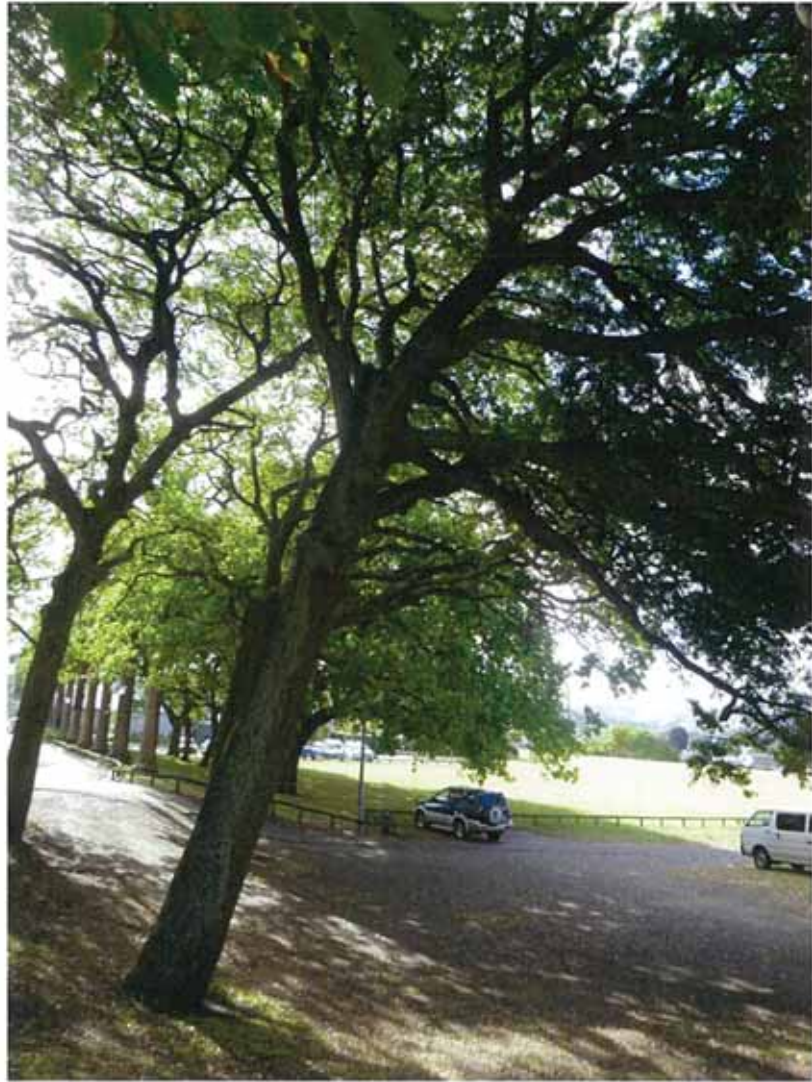
Amenity Evaluation

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	15
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	15
Subtotal Points						57

Notable Evaluation

Recognition Points	Local	District	Regional	National	International	Score
	3	9	15	21	27	
Stature						
• Feature						
• Form						9
Historic						
• Age 100+						3
• Association						9
• Commemoration						27
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						48
Total Points						138/163





Tree 2/5 with close up of foliage.

Tree # 71 *Quercus robur* 3/16  
 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	15
Function	Minor	Useful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	2721
Subtotal Points						69263

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	15
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	15
Subtotal Points						51

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						
Historic						
• Age 100+						3
• Association						9
• Commemoration						27
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						339
Total Points						425153





Tree 3/5 showing split branch hanging above carpark.

Tree # 71 *Quercus sp.* <sup>seed?</sup>  $\frac{4}{5}$   
 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	9
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	15
Function	Minor	Useful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	2721
Subtotal Points						7560

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	15
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	15
Subtotal Points						48

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						3
Historic						
• Age 100+						3
• Association						9
• Commemoration						27
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						842
Total Points						129153





Three trees in foreground from left to right: Tree 3/5, 4/5 and 5/5.



Bark detail of Tree 4/5.

Tree # 77 *Quercus* sp. 5/5  
 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	15
Function	Minor	Useful	Important	Significant	Major	9
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	2721
Subtotal Points						6963

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	15
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	15
Subtotal Points						51

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						
Historic						
• Age 100+						3
• Association						9
• Commemoration						27
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						39
Total Points						125153





Tree 5/5 with bark detail.

# STEM Evaluation for Wanganui Protected Trees

## Tree Number 23 – *Magnolia grandiflora*

### Two trees

### (Great Laurel Magnolia, Southern Magnolia, Bull Bay)

### Exotic

### Location: 139 Glasgow Street

Assessed by: Marc Higgle, Consultant Arborist, 28 March 2013

#### History:

"Planted in the 1880's by Francis Williamson who had acquired the house on the property for his daughter Angelina (house still stands). A keen botanist, Mr Williamson was the former head gardener of the Sheffield Botanical Gardens, who arrived in Wanganui sometime in 1848. He was responsible for sending specimens of New Zealand ferns which were new to botanists to Sir Joseph Paxton, the designer of the Crystal Palace." - 1988 assessment.

"The house on the site contains a Heritage listing (40). House was built in 1874 by Mr Bassett. Purchased by Mr Williamson in 1882." – Ref: Heritage Inventory District Plan.

#### Visual Comments:

Tree 1 (Victoria Avenue side):

- Very healthy tree with great canopy cover.
- Multi-leadered form from 1.5m but unions are sound.
- Some basal epicormic growth.
- The path is lifting from root growth, just inside the gate.
- Window pruned into side of canopy for powerline clearance.
- Some old pruning wounds noted with some minor decay.
- Ivy ground cover at base, not climbing or has been kept trimmed.
- Some flowers present.





Tree #23 *Magnolia grandiflora*  
Full Tree Evaluation Score Sheet

Condition Evaluation

Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	89
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	15
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	21
Function	Minor	Useful	Important	Significant	Major	815
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+	9
Visibility (km)	0.5	1.0	2.0	4.0	8.0	9
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	21
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						3
• Form						9
Historic						
• Age 100+						9
• Association						27
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						48
Total Points						192





Tree 2:

- This tree is smaller and of poorer form than its' companion.
- It has four main leaders from its base.
- The basal area has sizeable cavities and there is some old splitting visible.
- Power line clearance has significantly misshapen the tree and the tree is becoming sparse as a partial result.
- The leader growing over the footpath has little weight loading it due to the line clearance. However, this leader should be monitored for signs of failure/movement.
- There is ivy growing as a ground cover at the base. It is being kept from growing into the tree.

Tree #23 *Magnolia grandiflora*  
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	15
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+	9
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	9
Subtotal Points						51

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						
• Form						
Historic						
• Age 100+						3
• Association						27
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						30
Total Points						156





