STEM Evaluation for:

Metrosideror robusta

(Northern Rata) - Native

Location: Corner Liverpool Street, Glasgow Street and Somme Parade.

STEM Score: 144

Assessed by: Marc Higgie, Consultant Arborist, 1 November 2013

History:

None supplied or known at this stage.

Visual Comments:

- Nice smaller tree growing next to a Metrosideros excels which is Tree #4 on the protected list.
- There used to be a Southern Rata (Metrosideras umbellata) on this site also.
- The tree is being somewhat suppressed by the Pohutukawa. Some light pruning would remedy this.
- There is a large grassed area around it for it to grow, although it is only 1.5m from the footpath.
- There has been recent soil disturbance outside of the drip zone which would not likely have caused
 much lasting damage to the tree and its roots but recent spray marking indicate possible planned soil
 disturbance within 2m of the trees base. These marking could be purely to mark the presence of
 utilities for workers digging on the afore mentioned soil disturbance.
- . There is good root flare with minimal (but some present) damage to it or any exposed roots.
- There has been one large and two smaller leaders removed in the past, as well as a Coprosma sp. growing at the base.

Recommendations:

- · Lightly prune neighbouring Metrosideros excelsa to stop it suppressing the Rata.
- A large, combined mulch circle with the two trees would be beneficial for root health and deter root damage.



Full Tree Evaluation Score Sheet

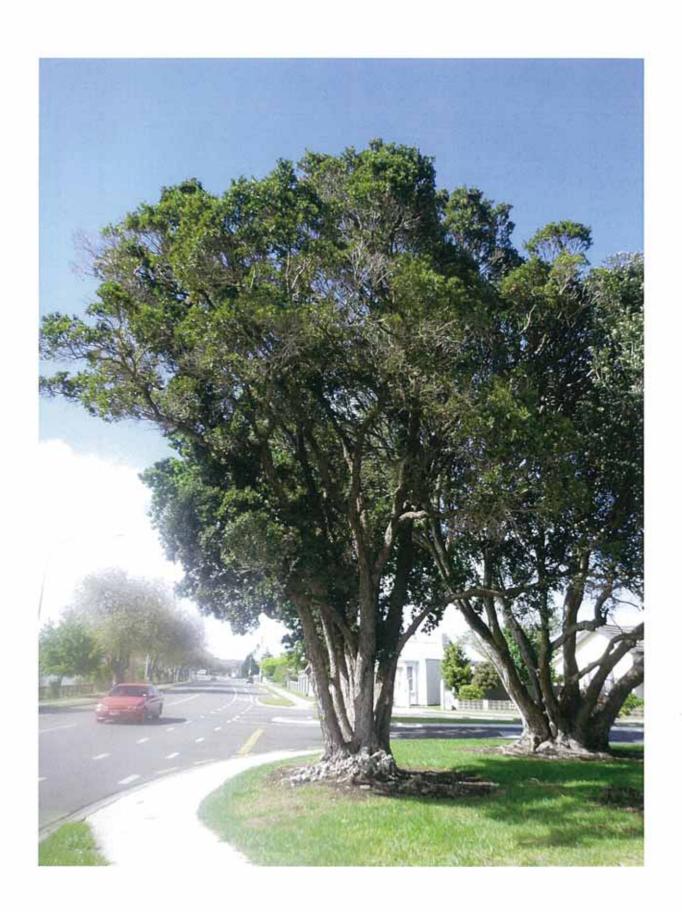
Metrosideros robusta						
Condition Eval	uation	200.00				
Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	15
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	222
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	15
Function	Minor	Useful	Important	Significant	Major	21
Age (yr)	10yrs. +	20утя. +	40yrs. +	80yrs. +	100yrs. +	23/5
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+	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	15
Climate	Minor	Moderate	Important	Significant	Major	2

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature • Fcature					-	
• Form						_
Historic • Age 100+						
 Association 						
Commemora	tion					_
• Remnant						
Relict						
Scientific Source						
• Rarity		-, ne				
Endangered						
Subtotal Points						0
Total Points						144



Pohutukawa (left) suppressing rata (right).



STEM Evaluation for:

Corymbia ficifolia - 3 trees

(Synonym: Eucalyptus ficifolia)

(Red-Flowering Gum) - Exotic

Location: Riverbank, between 66 Somme Parade and Russell Street

STEM Score: 183

Assessed by: Marc Higgie, Consultant Arborist, 12 December 2013

History:

Planted as a commemoration of WWI and the re-naming of the road.

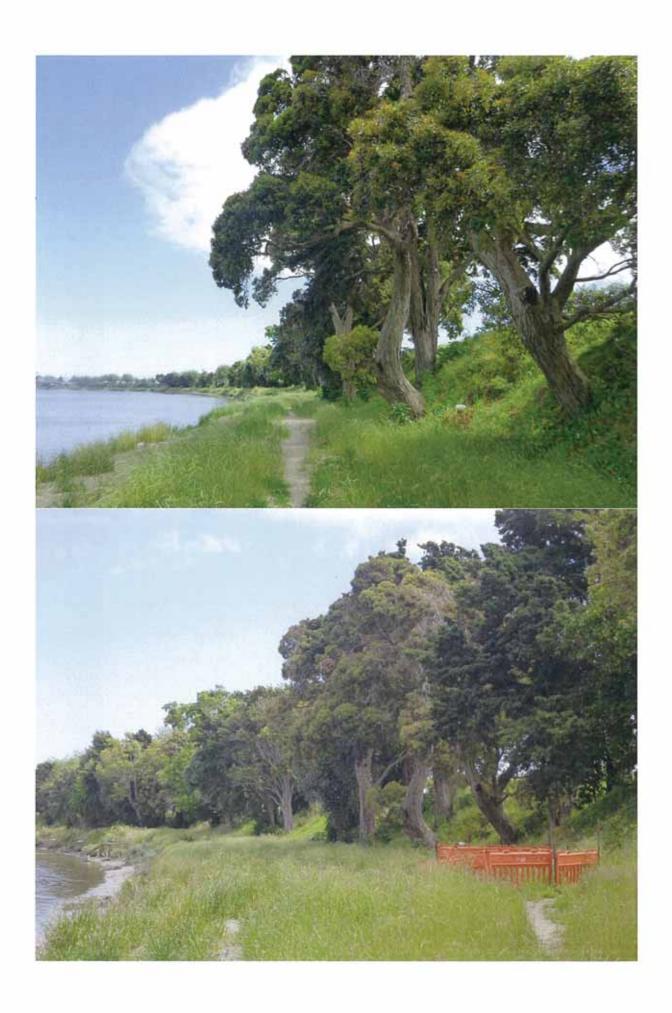
Visual Comments:

- · Three nice trees growing within 30m of each other.
- No visible prune history and no sign of major failures.
- · The trees are mostly overhanging the riverbank and have good form and no real need for pruning.
- They all have good clean canopies.
- They are part of a mixed planting with other mature exotic and native trees.

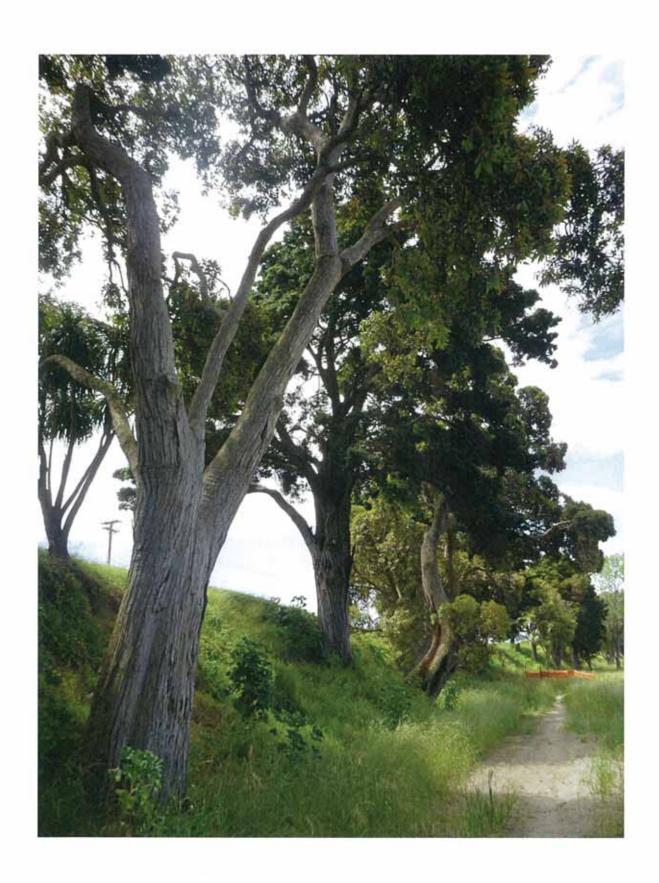


Full Tree Evaluation Score Sheet

Condition Eval	uation				2.12.13	
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	21
Function	Minor	Useful	Important	Significant	Major	21
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	2421
Subtotal Points						第87
Amenity Evalua 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	21
ett	Wines	Moderate	Improved	C110		~
Subtotal Points	Minor	Moderate	Important	Significant	Major	69
Climate Subtotal Points Notable Evalua Recognition Points	24	District	Regional	National	International	
Subtotal Points Notable Evalua Recognition	ition Local					69
Subtotal Points Notable Evalua Recognition Points Stature	ition Local	District	Regional	National	International	69
Notable Evalua Recognition Points Stature Feature Form	ition Local	District	Regional	National	International	69 Score
Notable Evalua Recognition Points Stature Feature Form Historic	ition Local	District	Regional	National	International	69
Notable Evalua Recognition Points Stature • Feature • Form Historic • Age 100+	tocal 3	District	Regional	National	International	Score
Notable Evalua Recognition Points Stature Form Historic Age 100+ Association	tocal 3	District	Regional	National	International	69 Score
Notable Evalua Recognition Points Stature Form Historic Age 100+ Commemoration	tocal 3	District	Regional	National	International	Score
Notable Evalua Recognition Points Stature Form Historic Age 100+ Commemoratio Remnant Relict	tocal 3	District	Regional	National	International	Score
Notable Evalua Recognition Points Stature Form Historic Age 100+ Commemoratio Remnant Relict Scientific	tocal 3	District	Regional	National	International	Score
Notable Evalua Recognition Points Stature Form Historic Age 100+ Association Commemoratio Remnant Relict Scientific Source	tocal 3	District	Regional	National	International	Score
Notable Evalua Recognition Points Stature Form Historic Age 100+ Commemoratio Remnant Relict Scientific Source Rarity	tocal 3	District	Regional	National	International	Score







STEM Evaluation for:

Podocarpus totara - 19 trees

(Totara) - Native

Location: Riverbank, between 66 Somme Parade and Russell Street

STEM Score: 207

Assessed by: Marc Higgie, Consultant Arborist, 12 December 2013

History:

Planted as a commemoration of WWI and the re-naming of the road.

Visual Comments:

- · Large totara trees on the riverbank mixed with other mature native and exotic trees.
- Their forms are mostly very good and most have good healthy canopies.
- On the downriver end of the trees, some are closely growing with other trees creating two-toned canopies. They are growing well together and the only concern would be if one were removed or failed, leaving the other exposed and vulnerable.
- There are a few smaller trees, some which have been suppressed by larger trees.
- There is a vine growing through the canopy of one tree. It has been cut but is coming away again.
- Most of the trees have had their canopies pruned and have good structure. They probably won't need further prunes unless there are failures.



Full Tree Evaluation Score Sheet

Podocepo Condition Eval	uation	× ×	19		12.12.13	
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	15
Function	Minor	Useful	Important	Significant	Major	21
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	22
Subtotal Points						9993

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	20	4.0	8.0	15
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	15
Role	Minor	Moderate	Important	Significant	Major	21
Climate	Minor	Moderate	Important	Significant	Major	日15
Subtotal Points						21

Notable Evaluation

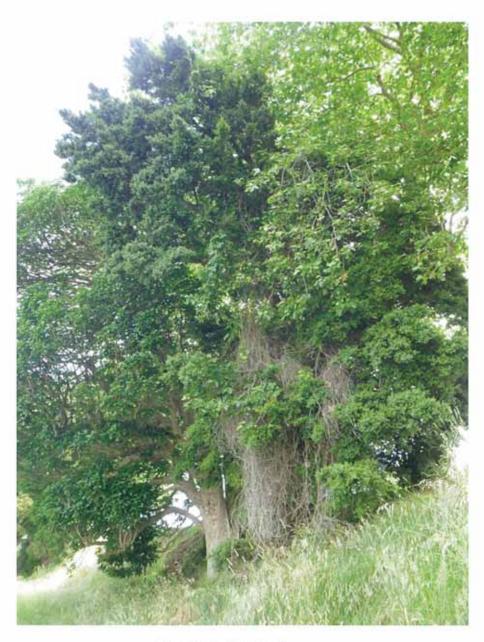
Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
Feature						3
• Form						3
Historic						9
* Agc 100+						M
 Association 						
Commemora	tion					27
• Remnant						21
Relict						
Scientific						
Source						
• Rarity						
 Endangered 						
Subtotal Points						每33
Total Points						田











Vine growing throughout canopy.



STEM Evaluation for:

Quercus robur (some possible hybrids)

(English Oak) - Exotic

Location: Halswell Street (72 trees)

STEM Score: 147

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

History:

Planted in 1902.

Visual Comments:

The following comments and the STEM Assessment represent an average of all the 72 trees.

- Most of these trees show typical form and structure for trees that have been topped in the past.
- The trees were closely planted leaving an unevenness in the size and shapes of trees, some being small and others large and spreading.
- Most have numerous cavities with varying levels of heartwood decay.
- A few of the trees opposite Peat Park have significantly better form due to their not having been topped in the past.
- There is one very well formed Pin or Scarlet Oak (Quercus palustris or coccinea) outside 30 Halswell Street.
- There is a hanger above the footpath outside 5 Halswell Street.
- The powerlines have been bundled leaving less future clearance pruning to be done. Still present though, are the large windows that have been pruned into the trees for old line clearances.
- · There is ivy growing from a cavity outside 16 Halswell Street.
- · Most have minor deadwood.
- Most have a lot of epicormic growth in the lower canopies and trunks.
- Compaction of the soil will be a minor issue with cars parking over the root plates of most trees.

Recommendations:

- Remove hanger outside 5 Halswell Street.
- Remove ivy ouside 16 Halswell Street.

Full Tree Evaluation Score Sheet

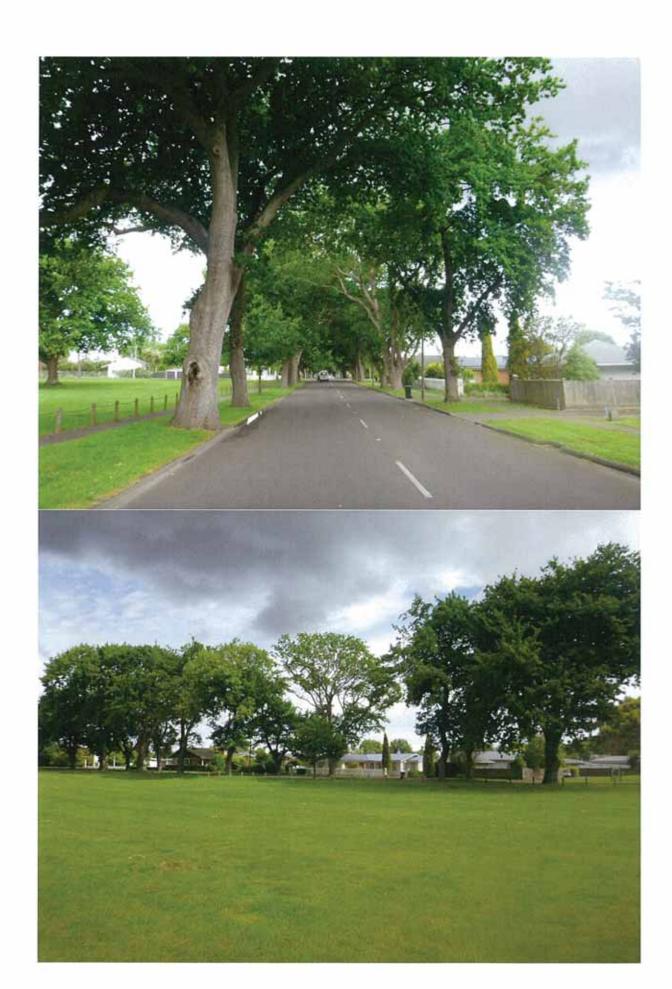
Condition Eval		and the second	sible hybrid		.1113	
Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	9
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	9
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	15
Function	Minor	Useful	Important	Significant	Major	15
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						75

Amenity Evaluation

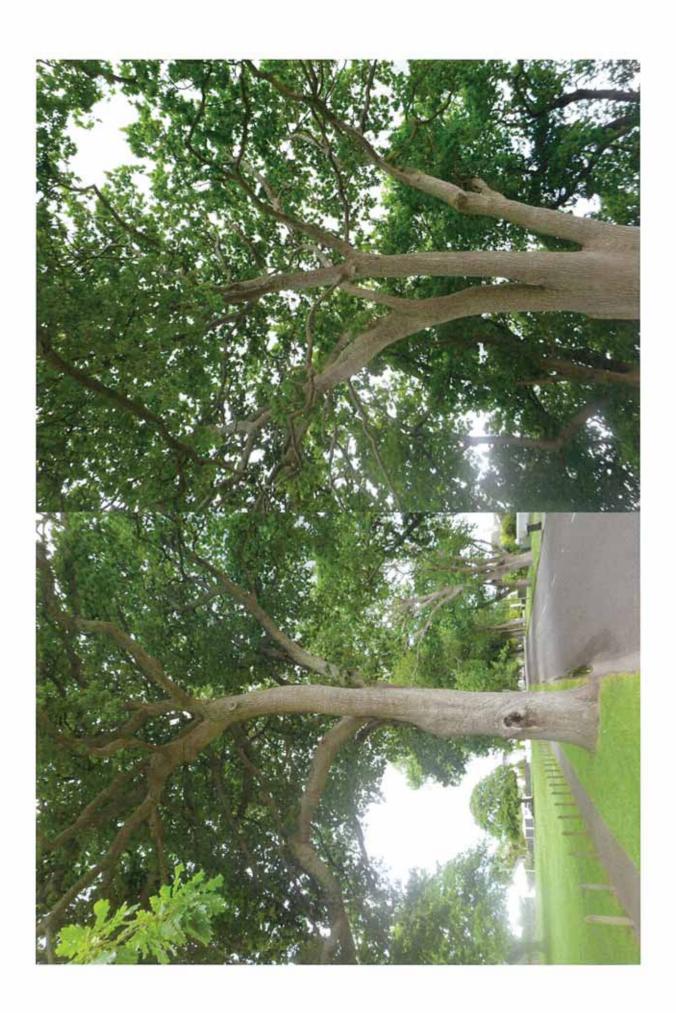
Points	3	9	15	21	27	Score
Stature (m)	3 to 8	9 to 14	15 to 20	21 to 26	27+	15
Visibility (km)	0.5	1.0	2.0	40	8.0	3
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	15
Role	Minor	Moderate	Important	Significant	Major	15
Climate	Minor	Moderate	Important	Significant	Major	21
Subtotal Points						69

Notable Evaluation

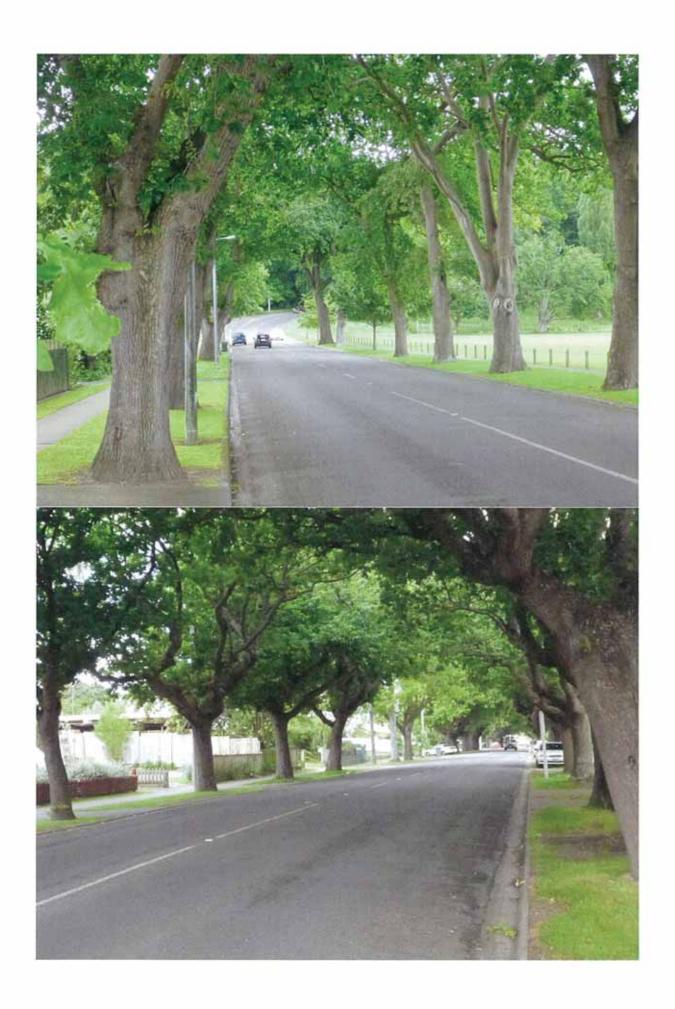
Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature • Feature						
• Form						
Historic						_
* Age 100+						3
 Association 						
Commemora	tion					7
• Remnant						
• Relict						
Scientific						_
Source						
 Rarity 						
Endangered						
Subtotal Points						3
Total Points						lua

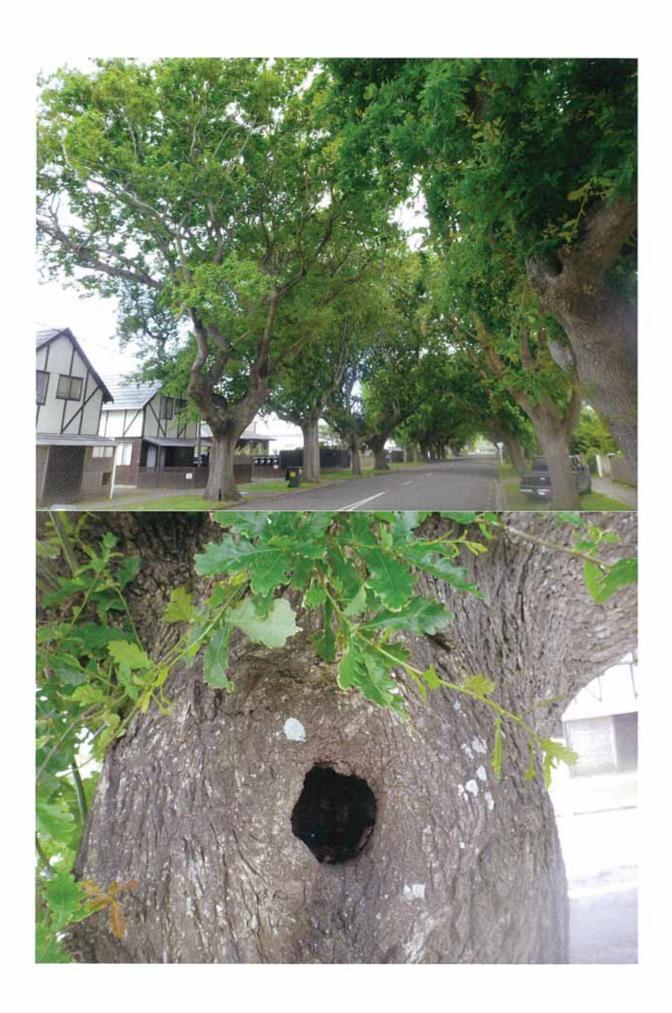




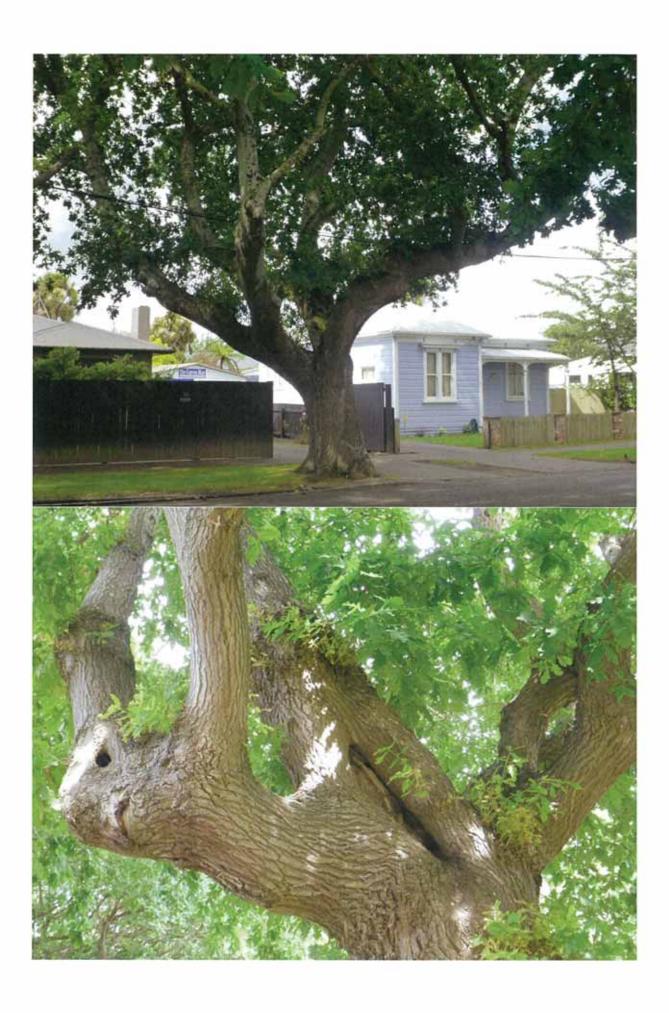


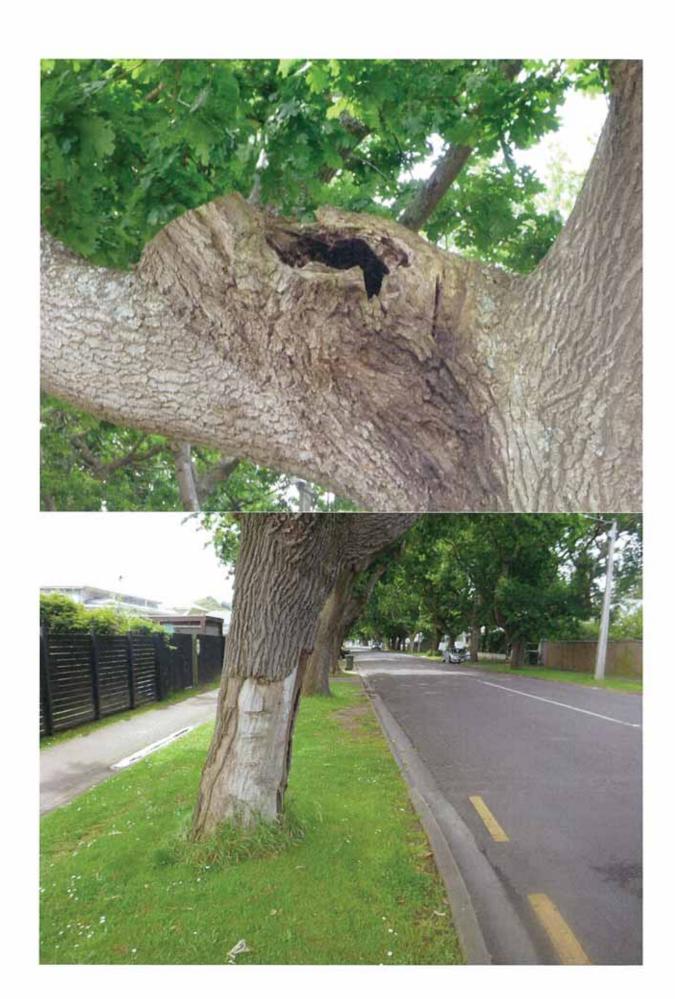


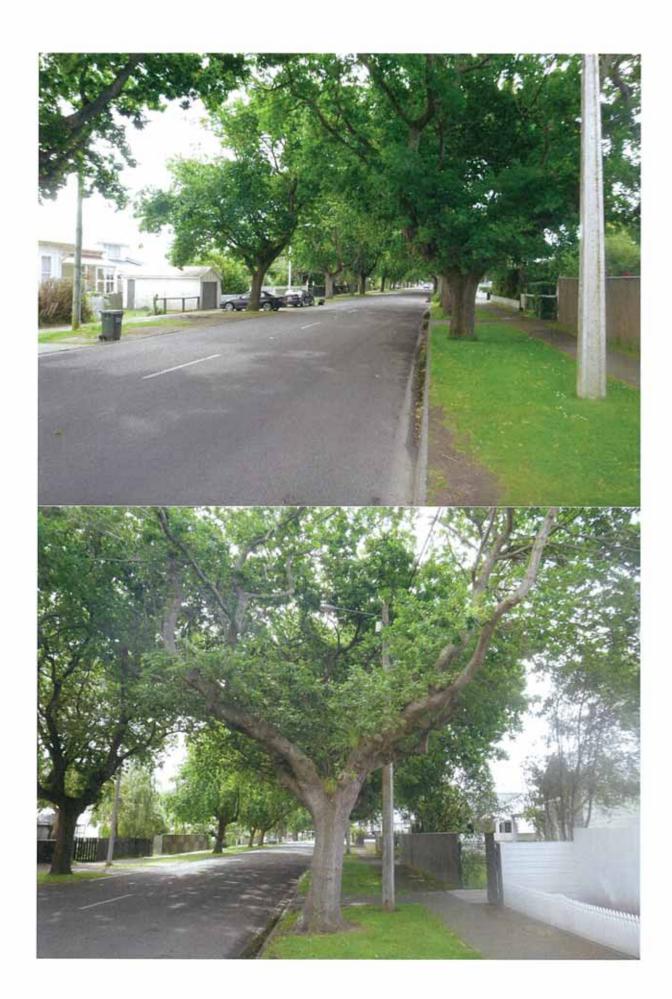


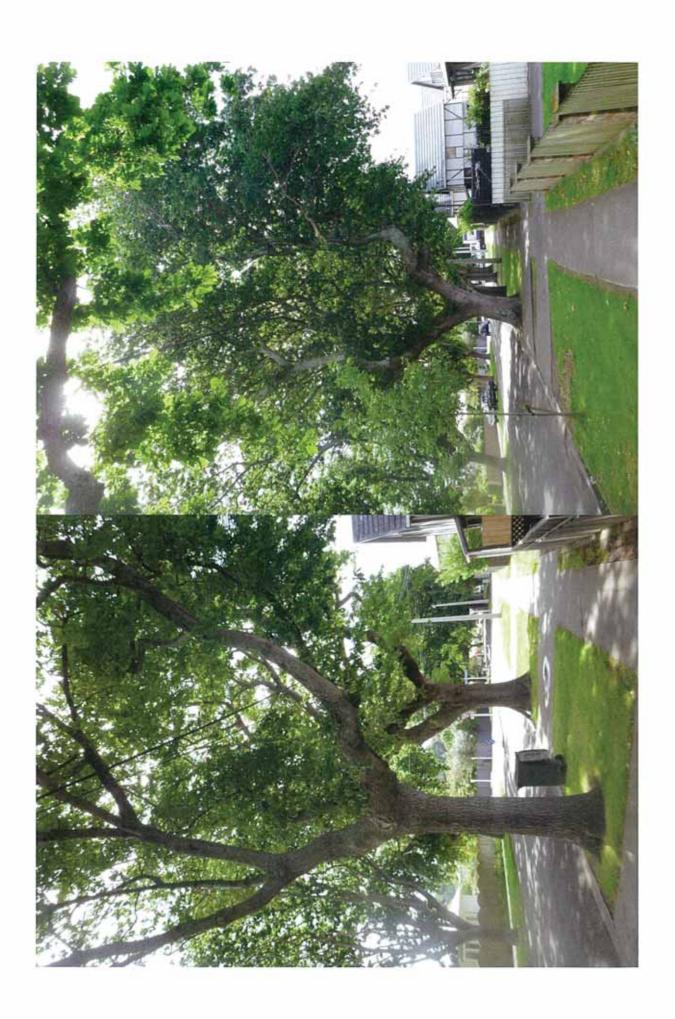


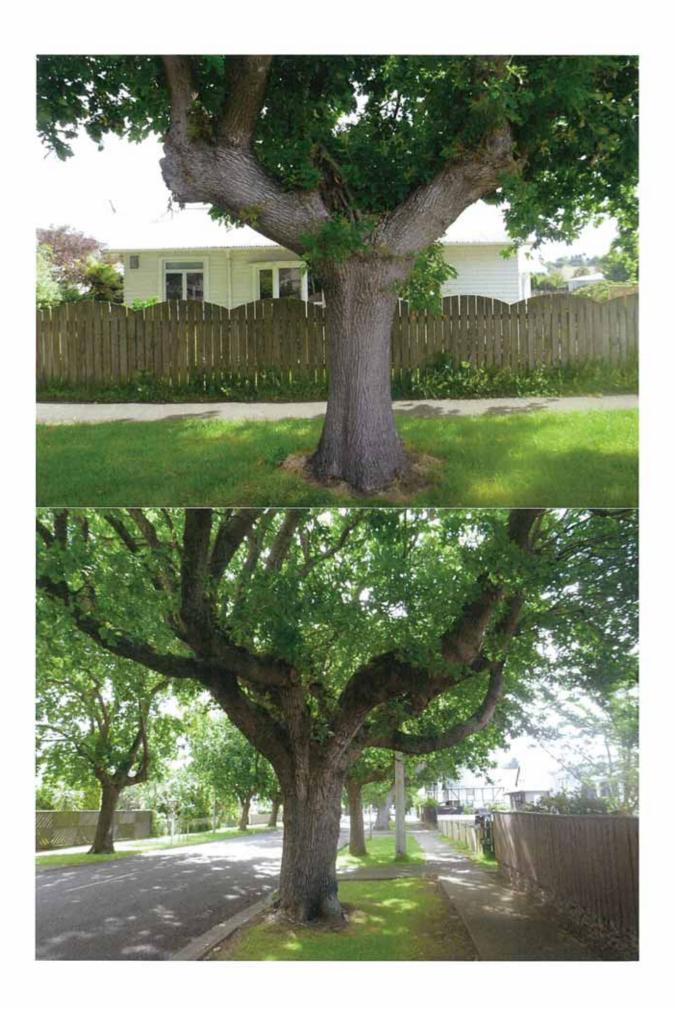


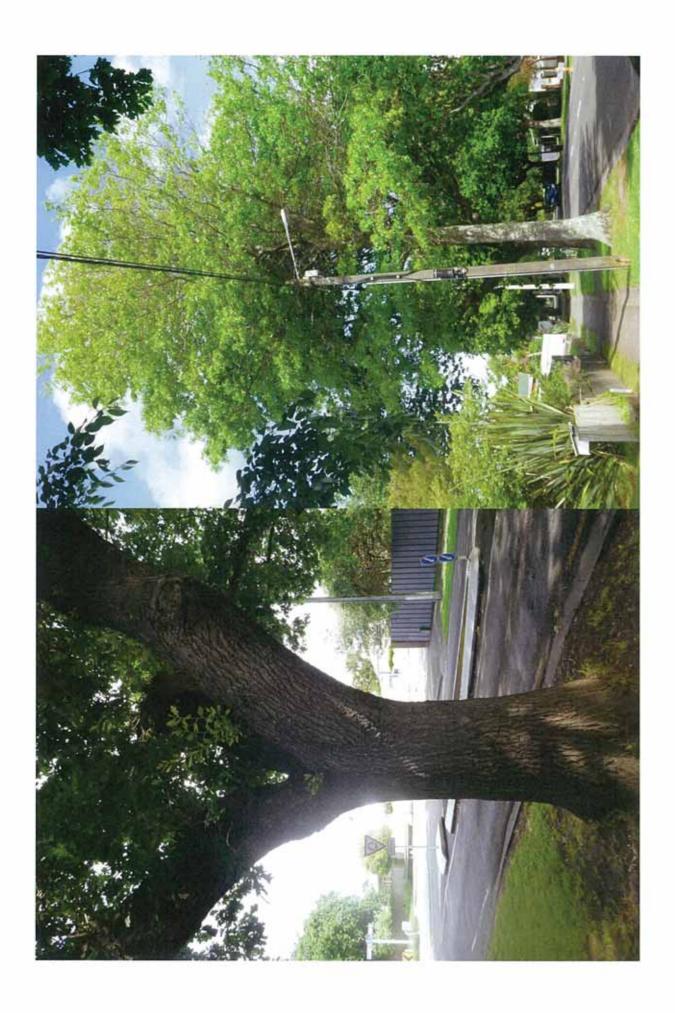














STEM Evaluation for:

Platanus X hispanica - 58 trees

London Plane - Exotic

Location: Victoria Avenue (from Ingestre Street to Great North Road)

STEM Score: 171

Assessed by: Marc Higgie, Consultant Arborist, 16 December 2013

History:

Planted in 1890.

Visual Comments:

- These London planes make up an attractive avenue of trees which have had a history of pollarding
 and then left to grow into a tree with between three and ten main leaders from the old pollard point
 approximately 3m high.
- For their past management history, the trees have good form and structure. The leaders are a little
 lions tailed at times but they have all been well maintained post pollarding.
- The trees play an important role in air conditioning the street, providing shade in the summer and wind shelter in the winter. They also absorb air pollution.
- A few of the trees appear to be approximately 40 years younger but have had the same management
 practices applied so have been included in the assessment. There are some much younger *Platanus*orientalis (?) which I have not included in the assessment.
- There is some tip die-back in some of the trees.
- · Most of the roots are uplifting asphalt footpaths and kerbing.
- New asphalt and kerbing to replace where it has uplifted, has probably meant there has been some root pruning to most of the trees. They do not appear to be stressed as a result.
- There is some basal suckering on a few trees.
- A few of the trees have been pruned back from veranda overhangs and have sealed over their wounds very well. The trees are misshapen as a result.
- There were some cavities noted but only minimal decay observed.
- · There is little damage to branches overhanging the road. I would have expected a lot more.

Recommendations:

Continue with current management practices.

Full Tree Evaluation Score Sheet

Platanus x hispanica Condition Evaluation			× 58		16.12.13	
Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	9
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	19
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	15
Function	Minor	Useful	Important	Significant	Major	21
Age (yr)	10yrs. +	20угз. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						181

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	15	
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	21	
Role	Minor	Moderate	Important	Significant	Major	15	
Climate	Minor	Moderate	Important	Significant	Major	21	
Subtotal Points						27	

Notable Eval	uation					
Recognition	Local	District	Regional	National	International	Score
Points	3	9	15	21	27	
Stature						
• Feature						
• Form						
Historic						1
• Age 100+						3
 Association 						1.
Commemor:	ation					
• Remnant						
Relict						
Scientific						
Source						
• Rarity						
Endangerer	d					
Subtotal Points						3
Total Points						171

