

STEM Evaluation for:

Fuscospora solandri, *Fuscospora fusca* and *Lophozonia menziesii*
(Synonom: *Nothofagus solandri*, *N. fusca*, *N. menziesii*)

Black Beech, Red Beech and Silver Beech - Native

Location: St Johns "Green Belt" between Bell St and Victoria Avenue

STEM Score: 180

Assessed by: Marc Higgle, Consultant Arborist, 12 November 2013

History:

None known at this stage.

Visual Comments:

- There are approximately 23 mature trees of varying size, form and structure. There are three NZ Beech species growing in this planting.
- A more detailed assessment would be required to I.D. and map each tree.
- The genus *Nothofagus* recently had a splitting of its species and all New Zealand *Nothofagus* have been renamed with new genus epithets
- They are impressive trees and spread out through a mix of native and exotic mature trees.
- There were no regeneration of the trees noted.
- Some major failures were visible and one tree had recently been uprooted.
- It is a wonderful environment for them with plenty of room to grow.
- A number of other natives are of impressive size and form.



Full Tree Evaluation Score Sheet

Nothofagus solandri, fusca & menziesii 12.11.13

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	15
Function	Minor	Useful	Important	Significant	Major	27
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
Subtotal Points						111

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	3
Role	Minor	Moderate	Important	Significant	Major	15
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						3 9
• Form						3 9
Historic						
• Age 100+						-
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						18
Total Points						180









STEM Evaluation for:
Eucalyptus occidentalis
Swamp Yate - Exotic
Location: Victoria Park
STEM Score: 237

Assessed by: Marc Higgie, Consultant Arborist, 21 February 2014

History:

None known at this stage.

Visual Comments:

- Originally thought to be only a few specimens in this planting, Colin Ogle and myself identified at least ten trees with more probable.
- There are a few larger, well formed trees but mostly they are smaller and of twisted form.
- This is the only place they are recorded to be in New Zealand.
- BMX track excavations are affecting and undermining the root plates of some trees.

Full Tree Evaluation Score Sheet

Eucalyptus occidentalis *? *?

21.2.14

Condition Evaluation

Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	21
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	27
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	21
Function	Minor	Useful	Important	Significant	Major	21
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	21
Subtotal Points						111

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	7
Role	Minor	Moderate	Important	Significant	Major	21
Climate	Minor	Moderate	Important	Significant	Major	15
Subtotal Points						63

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						21
• Form						21
Historic						
• Age 100+						
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						21
• Rarity						
• Endangered						
Subtotal Points						63
Total Points						237





STEM Evaluation for:
Eucalyptus paniculata
Grey Ironbark - Exotic
Location: Victoria Park
STEM Score: 225

Assessed by: Marc Higgle, Consultant Arborist, 21 February 2014

History:

None known at this stage.

Visual Comments:

- A large grouping of trees spread out and mixed with other *Eucalyptus* species.
- The trees are of varying size, structure and form but there are some larger, stand-out specimens.
- BMX track excavations will be affecting the root plates of some trees.



Full Tree Evaluation Score Sheet

Eucalyptus paniculata x number spread out: 21.2.14

Condition Evaluation

Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	21
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	27
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	21
Function	Minor	Useful	Important	Significant	Major	27
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	21
Subtotal Points						117

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	5
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	9
Role	Minor	Moderate	Important	Significant	Major	21
Climate	Minor	Moderate	Important	Significant	Major	15
Subtotal Points						63

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						15
• Form						15
Historic						
• Age 100+						
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						15
• Rarity						
• Endangered						
Subtotal Points						45
Total Points						225





STEM Evaluation for:
Eucalyptus oreades
Blue Mountains Ash - Exotic
Location: Victoria Park
STEM Score: 195

Assessed by: Marc Higgle, Consultant Arborist, 21 February 2014

History:

None known at this stage.

Visual Comments:

- A single specimen of this species for this planting.
- Had had a lot of dieback which has been poorly cut back/removed. Existing branches and new epicormic growth has invigorated the tree. The tree could be expected to live for many years yet but the chances of it further declining and perishing are just as likely.
- It has a large butt log.
- There is a seam of decay/dead wood running down the trunk, to approximately 5m. There is good response growth and callousing of the wound.

Recommendations:

- As this is the only tree of this species known around Wanganui and its health and longevity is questionable, I recommend propagation from seed to ensure the continuation of this species in the area.

Full Tree Evaluation Score Sheet

Crucianus orca-des

21.2.14

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	15
Function	Minor	Useful	Important	Significant	Major	15
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	21
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	7
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						21
• Form						21
Historic						
• Age 100+						
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						15
• Rarity						
• Endangered						
Subtotal Points						57
Total Points						195





STEM Evaluation for:
Corymbia maculata
Spotted Gum - Exotic
Location: Victoria Park
STEM Score: 231

Assessed by: Marc Higgie, Consultant Arborist, 21 February 2014

History:

None known at this stage.

Visual Comments:

- A large grouping of trees of varying size, form and structure.
- There are at least five larger specimens.
- All have great health and canopies.
- BMX tracks run very close to some of the trees and excavations will be affecting rootplates.

Full Tree Evaluation Score Sheet

Eucalyptus maculata grouping 21.7.14

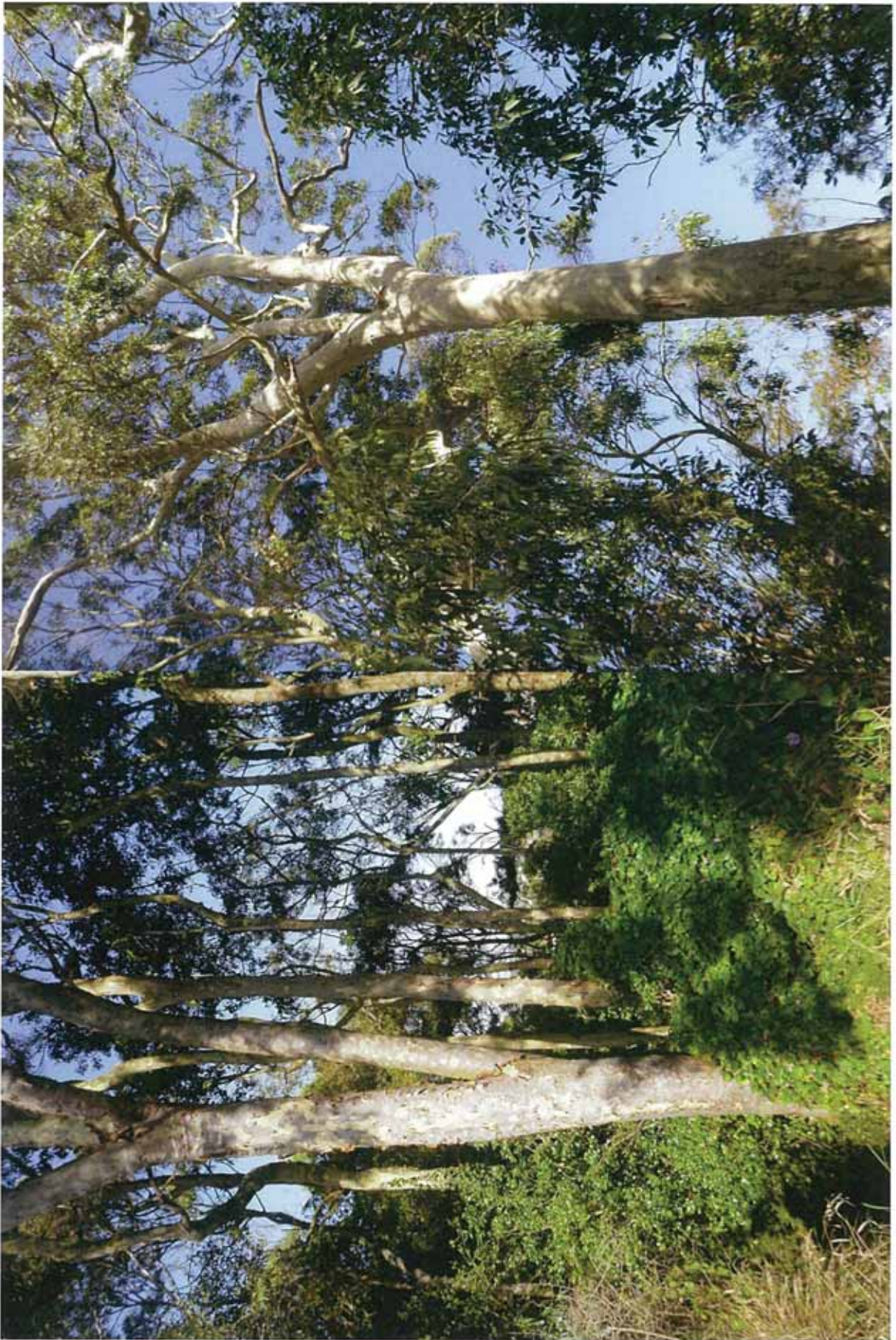
Condition Evaluation						Score
Points	3	9	15	21	27	
Form	Poor	Moderate	Good	Very good	Specimen	21
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	27
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	21
Function	Minor	Useful	Important	Significant	Major	27
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	21
Subtotal Points						117

Amenity Evaluation						Score
Points	3	9	15	21	27	
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 5+	Solitary	7
Role	Minor	Moderate	Important	Significant	Major	21
Climate	Minor	Moderate	Important	Significant	Major	15
Subtotal Points						69

Notable Evaluation						Score
Recognition Points	Local	District	Regional	National	International	
Stature						
• Feature						15
• Form						15
Historic						
• Age 100+						
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						15
• Rarity						
• Endangered						
Subtotal Points						45
Total Points						231







STEM Evaluation for:

Eucalyptus sieberi

Silvertop Ash or Black Ash - Exotic

Location: Victoria Park

STEM Score: 153

Assessed by: Marc Higgie, Consultant Arborist, 21 February 2014

History:

None known at this stage.

Visual Comments:

- Two trees near the clubrooms. Upon further investigation, Colin Ogle identified a number of other *E. sieberi* in the planting.
- The trees vary in size and form with some being suppressed by macrocarpas near the clubrooms.
- Some are at the top of the steep bank and doing an important job of stabilising the bank.
- There is some stagheading visible.



Full Tree Evaluation Score Sheet

Eucalyptus Sieberi x 2 trees 21.2.14

Condition Evaluation

Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	9
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	27
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	15
Function	Minor	Useful	Important	Significant	Major	21 21
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	21
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	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						
• Form						
Historic						
• Age 100+						
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						15
• Rarity						
• Endangered						
Subtotal Points						15
Total Points						153





STEM Evaluation for:
Eucalyptus diversicolor

Karri - Exotic

Location: Victoria Park

STEM Score: 237

Assessed by: Marc Higgie, Consultant Arborist, 21 February 2014

History:

None known at this stage.

Visual Comments:

- Two known trees; one large and very good specimen with great form and structure, the other tree is almost as tall but more slender.
- There are some failures visible but otherwise the canopy is very healthy.

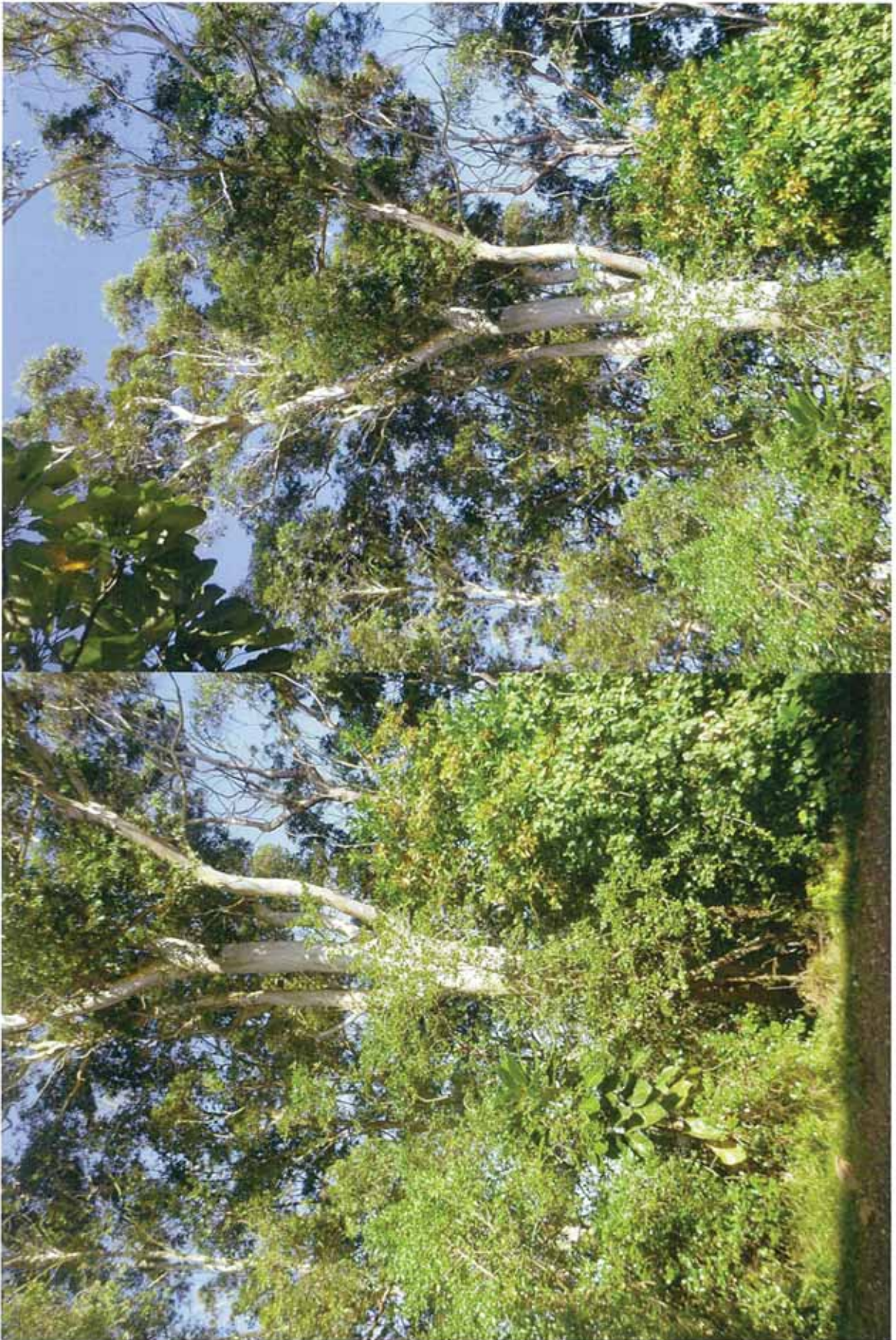
Full Tree Evaluation Score Sheet

Eucalyptus diversicolor #2, 21.2.14

Condition Evaluation						Score
Points	3	9	15	21	27	
Form	Poor	Moderate	Good	Very good	Specimen	27
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	21
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	27
Function	Minor	Useful	Important	Significant	Major	27
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	21
Subtotal Points						123

Amenity Evaluation						Score
Points	3	9	15	21	27	
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	15
Climate	Minor	Moderate	Important	Significant	Major	15
Subtotal Points						63

Notable Evaluation						Score
Recognition Points	Local	District	Regional	National	International	
	3	9	15	21	27	
Stature						
• Feature						15
• Form						15
Historic						
• Age 100+						
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						21
• Rarity						
• Endangered						
Subtotal Points						51
Total Points						237





STEM Evaluation for:
Eucalyptus cladocalyx
Sugar Gum - Exotic
Location: Victoria Park
STEM Score: 219

Assessed by: Marc Higgie, Consultant Arborist, 21 February 2014

History:

None known at this stage.

Visual Comments:

- More specimens identified than the two or three originally thought to be there. Some very good specimens present.
- Some stag heading in some of the trees.
- Only one other mature specimen is known in Wanganui.

Full Tree Evaluation Score Sheet

Eucalyptus chlorocalyx ~~sp~~ * ... 21.2.14

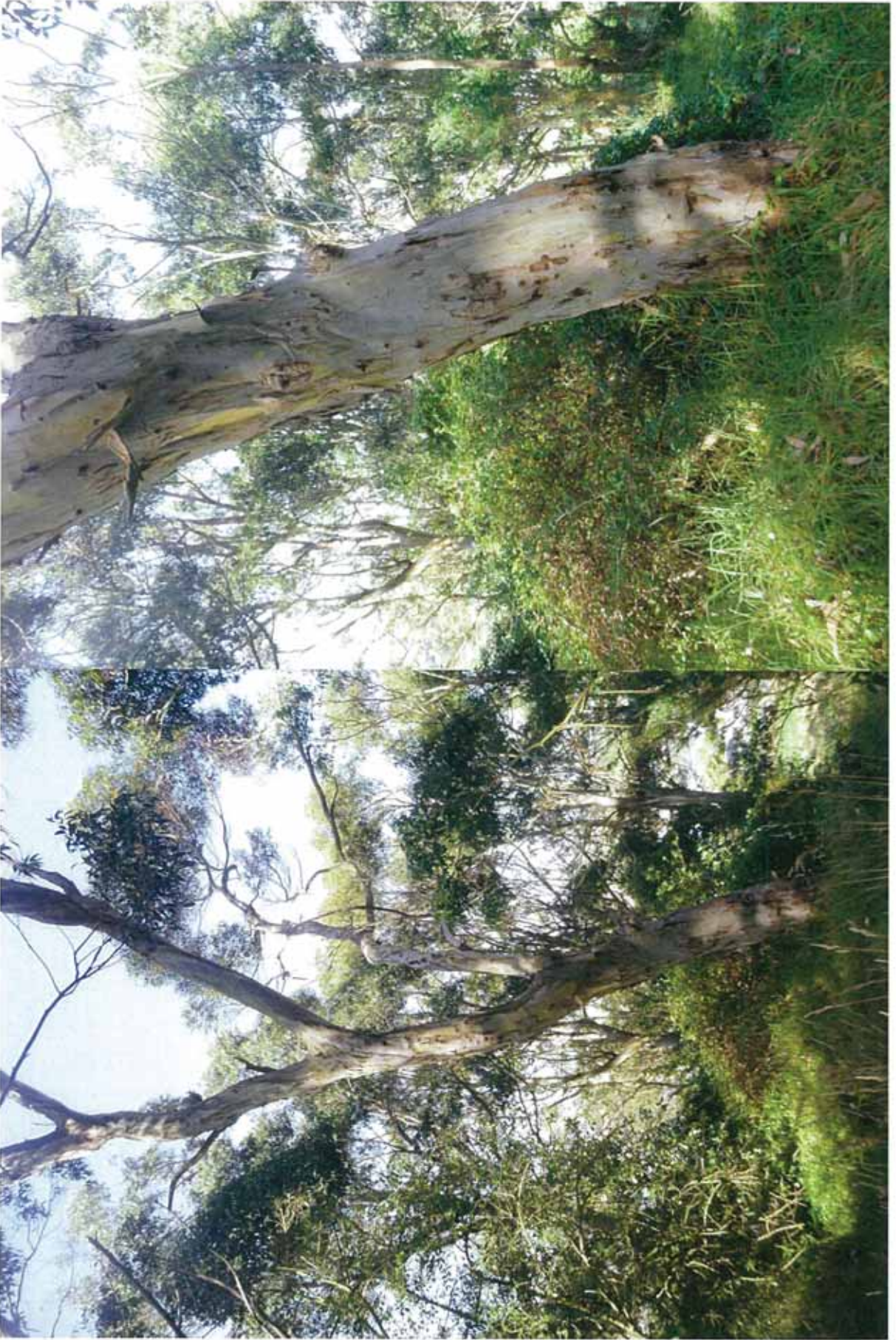
Condition Evaluation						Score
Points	3	9	15	21	27	
Form	Poor	Moderate	Good	Very good	Specimen	21
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	27
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	21.5
Function	Minor	Useful	Important	Significant	Major	27
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	21
Subtotal Points						111

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	21
Climate	Minor	Moderate	Important	Significant	Major	15
Subtotal Points						63

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						15
• Form						15
Historic						
• Age 100+						
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						15
• Rarity						
• Endangered						
Subtotal Points						45
Total Points						219





STEM Evaluation for:
Eucalyptus cypellocarpa
Mountain Grey Gum - Exotic
Location: Victoria Park
STEM Score: 159

Assessed by: Marc Higgle, Consultant Arborist, 21 February 2014

History:

None known at this stage.

Visual Comments:

- Thought to be one specimen but Colin Ogle identified other specimens from samples collected on 20 February 2014.
- A fairly variable species.
- Very fragrant oils in crushed leaves.
- Smaller trees in this planting but good form. Probably have been coppiced in the past and this is regrowth coming through.



Full Tree Evaluation Score Sheet

E. cypellacarpa Z1. 2.14

Condition Evaluation						Score
Points	3	9	15	21	27	
Form	Poor	Moderate	Good	Very good	Specimen	21
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	27
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	21
Function	Minor	Useful	Important	Significant	Major	15
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	21
Subtotal Points						105

Amenity Evaluation						Score
Points	3	9	15	21	27	
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	9
Subtotal Points						39

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



STEM Evaluation for:
***Eucalyptus* x ? (one parent may be *E. tereticornis*)**

Hybrid Gum - Exotic

Location: Victoria Park

STEM Score: 132

Assessed by: Marc Higgie, Consultant Arborist, 21 February 2014

History:

None known at this stage.

Visual Comments:

- This tree has not been able to be identified and Ian Brooker tentatively identifies it as a hybrid with one parent *E. tereticornis*.
- It is a smaller tree with a weeping form.
- It is one sided and leaning due to suppression from taller growing trees.
- It was flowering at the time of inspection and the foliage is attractive.



Full Tree Evaluation Score Sheet

Eucalyptus x (hybrid: possibly *E. tereticornis* x ?)

Condition Evaluation

Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	9
Occurrence	Predominant	Common	Infrequent	Rare	Very Rare	27
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	27
Function	Minor	Useful	Important	Significant	Major	15
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	215
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+	7
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	159
Subtotal Points						39

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						132



