

# STEM Evaluation for Wanganui Protected Trees

## Tree Number 96 – *Araucaria bidwillii*

### (Bunya Pine, Bunya Bunya)

#### Exotic

#### Location: No. 3 Line – Beside Gordons Bush

Assessed by: Marc Higgle, Consultant Arborist, 19 June 2013

#### History:

None known at this stage.

#### Visual Comments:

- Very nice, tall, straight and single leaved specimen.
- The canopy is a little sparse in the upper canopy. This is probably due to its open position in an exposed plain.
- The lower 2/3's of the tree have broken branch stubs and epicormic growth from the trunk.
- The paddock is stocked periodically with dairy cows and compaction could be an issue. There is also some damage to the exposed roots and buttresses.
- The paddock is cropped/ploughed close to the tree which will be causing damage to the root plate and putting stress on the tree.
- A solution to this and future damage would be to retire an area around the tree with an electric fence to keep stock and vehicles out.
- The tree is healthy considering its exposure to climatic conditions and the stresses put on its root-plate.
- There is an old, almost dead *Cupressus macrocarpa* and an old *Magnolia grandifolia* nearby indicating this used to be a house site.

#### Recommendations:

- Install an electric fence encircling and protecting the root-plate and base of tree.



Tree # 96 *Araucaria bidwillii*  
 Full Tree Evaluation Score Sheet

Condition Evaluation

Points	3	9	15	21	27	Score
Form	Poor	Moderate	Good	Very good	Specimen	<del>21</del> 21
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. +	27
Subtotal Points						98/87

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	21
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	21
Role	Minor	Moderate	Important	Significant	Major	3
Climate	Minor	Moderate	Important	Significant	Major	3
Subtotal Points						69

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						171





# STEM Evaluation for Wanganui Protected Trees

## Tree Number 97 – *Agathis australis*

(Kauri)

Native

Location: 333 Papaiti Road

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

### History:

None known at this stage.

### Visual Comments:

- Small but well proportioned solitary tree.
- Good canopy and starting to grow its mature spreading branches.
- Excellent that the tree has been fenced off from larger stock although there are exposed roots out of the enclosure with considerable damage. There are also signs of compaction immediately surrounding the enclosure through stock movement.
- There is an old *Acer palmatum* nearby.

### Recommendations:

- Enlarging the enclosure around the tree so it protected all the exposed roots would benefit the trees longevity.



Tree # 97 *Agathis australis*  
 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	39
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+	189
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	3
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						
• Form						3
Historic						
• Age 100+						9
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						12
Total Points						150







# STEM Evaluation for Wanganui Protected Trees

## Tree Number 98 – *Eucalyptus globulus*

### (Tasmanian Blue Gum)

#### Exotic

#### Location: 736 Papaiti Road

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

#### History:

None known at this stage.

#### Visual Comments:

- Typical big old blue gum.
- Good single leadered structure until high in the canopy.
- Some stagheading throughout canopy. This is common in ageing eucalypts.
- Large amount of epicormic growth throughout the interior canopy. This is collecting a lot of debris and giving the tree a scruffy appearance.
- Situated in pasture.
- As well as the stagheading, there are some other dead branches, some smaller ones above the road.

#### Recommendations:

- A deadwood prune over the whole tree would be ideal aesthetically but not necessary due to the low risk target below. The deadwood above the road should be removed to minimise the risk of wood falling onto the road/road users.



Tree # 98 *Eucalyptus globulus*  
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	15
Function	Minor	Useful	Important	Significant	Major	3
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+	21
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	3
Climate	Minor	Moderate	Important	Significant	Major	9
Subtotal Points						63

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						3
• Form						3
Historic						
• Age 100+						3
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						9
Total Points						147





# STEM Evaluation for Wanganui Protected Trees

## Tree Number 99 – *Araucaria cunninghamii*

### (Hoop Pine)

#### Exotic

#### Location: 778 Papaiti Road

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

#### History:

None known at this stage.

#### Visual Comments:

- Stunning tree – part of a mature planting.
- Double leadered from approx. 15m.
- Numerous branch failures but canopy still very healthy and there is little infrastructure underneath to damage.
- New female cones forming high up.
- Three large elms and a cedar close by.



Tree #99 *Araucaria cunninghamii*  
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	3
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+	27
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						69

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						207







# STEM Evaluation for Wanganui Protected Trees

## Tree Number 100 – *Liriodendron tulipifera*

### (Tulip Tree)

#### Exotic

#### Location: 701 Papaiti Road

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

#### History:

None known at this stage.

#### Visual Comments:

- Big multi-leadered tree growing on an upriver lean.
- Very large ground trunk diameter.
- Good garden space around it.
- Good power line clearance.
- Some deadwood and stubs present.

#### Recommendations:

- No urgent work needed but a general deadwood and tidy up of the stubs would freshen up the tree.



Tree # 100 *Liriodendron tulipifera*  
 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	<del>21</del> 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						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	15
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						3
Historic						
• Age 100+						9
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						15
Total Points						159



**STEM Evaluation for Wanganui Protected Trees**  
**Tree Number 101 – *Pseudotsuga menziesii* (4 trees)**  
**(Douglas Fir)**

**Exotic**

**Location: Bushy Park (below bus park)**

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

**History:**

None known at this stage.

**Visual Comments:**

- This grouping of four trees has been mis-identified and is not *Abies balsamea* as recorded. They are fine examples of *Pseudotsuga menziesii* or Douglas fir.

Trees 1, 2 and 3

- Tight grouping of three very impressive trees growing on the edge of native bush. Visible from the Bushy Park homestead.
- Very tall and mostly straight although they all have slight twists in their trunks. One more so than the others.
- There were plentiful cones on the forest floor but only one seedling was spotted on the edge of the bush.
- There was a considerable amount of fresh broken twigs on the floor indicating either a storm or some native parrot damage. This has not affected the trees health.
- Being in the bush the bases of these trees are very well protected. However two that are close to the track that runs under them have some minimal damage to exposed roots.
- They all have many broken stub branches in their lower trunks. This is typical of un-pruned and mature conifers.
- There are *Astelia sp.* or *Colospermum sp.* growing on the trunks of tree 1.

Tree 4

- This tree has three leaders growing from the lower trunk but the main trunk has not lost its apical dominance.
- Set apart from the other three trees and not as tall but otherwise healthy.

**Recommendations:**

- Re-label the tree with the correct name and as it is a Notable Tree also, notify the Notable Trees Trust of the mistake.

Tree # 101 *Pseudotsuga menziesii* x3  
 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						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+	27
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	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						9
• Form						9
Historic						
• Age 100+						9
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						27
Total Points						171

Tree # 101 *Pseudotsuga menziesii* x 1  
 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	3
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						3
Historic						
• Age 100+						9
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						12
Total Points						138



From left to right, Tree 4, 3, 2 and 1.







Tree 4



Cone and foliage of *Pseudotsuga menziesii*.

# STEM Evaluation for Wanganui Protected Trees

## Tree Number 103 – *Dacrydium cupressinum*

(Rimu)

Native

**Location: Bushy Park (Ratanui Track)**

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

### History:

None known at this stage.

### Visual Comments:

- Majestic and stunning tree, estimated to be around 500 years old.
- A great example of how a true forest grown emergent tree species should grow to.
- Tall and straight with the first branches approximately 12m up.
- Host to numerous species of flora and fauna including *Metrosideros* vines.
- Appears to be a large branch failure which is still caught in tree.
- Large exposed roots/buttress spreading some metres away from base of tree. Three of these have been cut to form the track.



Tree # 103 *Dacrydium cupressinum*  
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	<del>15</del> 21
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	21
Function	Minor	Useful	Important	Significant	Major	27
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
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+	27
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	27
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						15
• Form						<del>15</del> 27
Historic						
• Age 100+						15
• Association						
• Commemoration						
• Remnant						15
• Relict						
Scientific						
• Source						9
• Rarity						
• Endangered						
Subtotal Points						81
Total Points						267





Two of the large buttress roots that have been cut to form the track.

## STEM Evaluation for Wanganui Protected Trees

Tree Number 104 – *Fagus sylvatica* 'Purpurea'

(Copper Beech)

Exotic

Location: Bushy Park

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

### History:

None known at this stage.

### Visual Comments:

- This is a fine specimen, probably with the best form of its kind in Wanganui and of equal size to tree #88 in Nile Street.
- There are four leaders from 1.5m. One small, two medium sized and the main trunk itself.
- The tree has very good internal structure and form.
- It has a large butt log and good root flare at the base.
- There is a great garden/bush environment around it with plenty of organic matter improving the soil.
- There is an *Astelia* sp. and an epiphytic fern growing in the tree.
- There is some damage to exposed roots on the path but this is minimal and there is not a large amount of foot traffic.
- There are two fungal growths growing from the base of the tree. It does not appear to be having a detrimental effect to the tree. I have not been able to identify it at this stage but will endeavour to do so.
- The tree is labelled with the cultivar 'Cuprea'. This is historically the name used to distinguish grafted beeches, with the copper colouring, from the seedling copper beeches. As no graft is obvious at the base of the tree, it is more relevant to call it 'Purpurea'.



Tree # 104 *Fragaria sylvatica* 'cuprea' ? (Purpurea)  
 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	15
Climate	Minor	Moderate	Important	Significant	Major	9
Subtotal Points						51

Notable Evaluation

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









## STEM Evaluation for Wanganui Protected Trees

### Tree Number 105 – *Metrosideros robusta*

#### (Northern Rata)

#### Native

#### Location: Bushy Park (Ratanui track)

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

#### History:

None known at this stage.

#### Visual Comments:

- Massive and stunning tree.
- It is very healthy and playing host to a large range of flora and fauna both in its canopy and at ground level.
- This tree has typical form for an ancient, forest grown tree. It started life high in its host tree which it eventually smothered and continued to grow as a terrestrial tree.
- It was thought to be the biggest known rata in New Zealand but there have since been one or two recorded bigger.
- If seed could be sourced without damaging the tree or the habitats in its crown, it could be grown and used for re-vegetation plantings.
- It is good that the boardwalk "fences" off the rootplate, protecting it from being damaged by visitors.
- This tree is on the cover of Bob Burstall's 1984 book, "Great Trees of New Zealand".



Tree #105 *Metroxideros robusta*  
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	<del>15</del> 21
Vigour & Vitality	Poor	Some	Good	Very good	Excellent	21
Function	Minor	Useful	Important	Significant	Major	27
Age (yr)	10yrs. +	20yrs. +	40yrs. +	80yrs. +	100yrs. +	27
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+	27
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	27
Climate	Minor	Moderate	Important	Significant	Major	21
Subtotal Points						81

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						27
• Form						27
Histoic						
• Age 100+						27
• Association						
• Commemoration						
• Remnant						21
• Relict						
Scientific						
• Source						<del>15</del> 9
• Rarity						
• Endangered						
Subtotal Points						111
Total Points						309









# STEM Evaluation for Wanganui Protected Trees

## Tree Number 109 – *Quercus palustris*

### (Pin Oak, Swamp Oak)

#### Exotic

#### Location: 305 Kaukatea Valley Road (near entrance to driveway)

Assessed by: Marc Higgle, Consultant Arborist, 5 April 2013

#### History:

None known at this stage.

#### Visual Comments:

- Very large and impressive tree.
- Good form and single leaedered for at least 15m.
- Groing on a slight lean.
- No major deadwood, very healthy.
- Near a stream and will be doing some stabilisation.
- *Vinca major* (periwinkle) at its base. There is also ivy growing near.
- Other interesting plantings nearby include: *Pinus canariensis*, *Nothofagus sp.*, *Podocarpus totara*, *Pseudotsuga menziesii*, *Liquidamber styraciflua*, *Acer palmatum*, *Magnolia grandiflora*, *Trachycarpus fortunei*, *Phoenix canariensis*, *Quercus robur*, *Ilex aquifolium* and *Platanus X hispanica*.

#### Recommendations:

- A light prune of some lower epicormic growth would make the tree stand out from the undergrowth more but is not necessary.



Tree # 109 *Quercus palustris*  
 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	<del>27</del> 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	3
Proximity	Forest	Parkland	Group 10+	Group 3+	Solitary	15
Role	Minor	Moderate	Important	Significant	Major	9
Climate	Minor	Moderate	Important	Significant	Major	9
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+						15
• Association						
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						45
Total Points						213





# STEM Evaluation for Wanganui Protected Trees

## Tree Number 111 – *Araucaria bidwillii*

### (Bunya Pine, Bunya Bunya)

#### Exotic

#### Location: 305 Kaukatea Valley Road (opposite driveway)

Assessed by: Marc Higgie, Consultant Arborist, 5 April 2013

#### History:

"Planted by Mr David Strachan, first settler in the Kaukatea Valley." – Newspaper article, March 5 1960.

#### Visual Comments:

- Massive and impressive tree on a rise near the road.
- Canopy is becoming a little sparse high up. It could signify the start of its decline, which could take many years.
- Massive trunk girth, possibly amongst the largest in New Zealand.
- Massive raised roots on all sides and especially heading down the hill.
- Some branch failures but otherwise a good, unpruned canopy.
- Growing on a slight lean.
- Infestation of woolly aphid type insect. This is fairly common in *Araucaria bidwillii* and other *Araucaria* species. Ladybirds and fantail are natural predators of this insect.
- Foliage is smaller than normal. This could be because of its age or an effect of the woolly aphid infestation.
- There does not appear to be a high stocking rate in the paddock around the tree. This is good for the tree especially its lower trunk and root plate. When it is stocked it looks to be with cattle.
- There are plants of briar rose, holly and barberry at its base. There are scattered gorse plants within 200m.
- The encroaching gorse is a concern if it is sprayed and some spray or drift gets onto the Bunya.

#### Recommendations:

- Remove weed species undergrowth and further afar gorse without chemical means.



Tree # 111 Araucaria bidwillii  
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	15
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+	27
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						63

Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
Stature						
• Feature						21
• Form						15
Historic						
• Age 100+						15
• Association						9
• Commemoration						
• Remnant						
• Relict						
Scientific						
• Source						
• Rarity						
• Endangered						
Subtotal Points						60
Total Points						222







