

*Appendix QQ – (Draft) Natural Area Appraisal and Removal Guidelines, City of Winnipeg*



## THE CITY OF WINNIPEG • VILLE DE WINNIPEG

*PUBLIC WORKS DEPARTMENT • SERVICE DES TRAVAUX PUBLICS*

*PARCS & OPEN SPACE DIVISION • DIVISION DES PARCS ET DES ESPACES OUVERTS*

**CITY NATURALIST'S OFFICE – BUREAU DU NATURALISTE MUNICIPAL**

**NATURALIST SERVICES BRANCH / SERVICES DE CONSERVATION DE LA NATURE**

**Draft**

### **Natural Area Appraisal and Removal Guidelines**

These guidelines are applicable to situations where natural areas containing native species are to be removed.

The appraisal value is based on the type of vegetation present, diversity of native species and overall habitat quality.

Compensation for habitat removal including integral damages to the site species or composition thereof is based on the following formulas. Compensation can be achieved through monetary means or completing a landscape restoration of equivalent habitat value.

Funds received by The Naturalist Services Branch in compensation will be invested back in the form of habitat restoration within the ward to maintain the natural features within our urban area.

#### **Formulas:**

#### **1. Habitat Including Groupings of Trees and/or Shrubs**

##### **1.A. Trees**

Tree values are based on the Urban Forestry Branch's Tree Removal Guidelines

**Trees > 5cm up to 17.5cm DBH:** \$600 \* (number of replacement trees required) \* (Species Rating %) \* (Habitat Grade Value) = cost/tree

- Trees greater than 10cm dbh are valued at one replacement tree for every additional 7.5 cm of dbh (ie. 17.5cm dbh = 2 replacement trees @ \$600 / tree = \$1200)
- Trees and shrubs in poor condition will not be appraised

##### **1.B. Shrubs and Woody Vines**

< 1m in height = \$20 \* (Species Rating %) = cost/shrub

1.01m – 2m in height = \$40 \* (Species Rating %) = cost/shrub

> 2m in height = \$60 \* (Species Rating %) = cost/shrub

- Non-native shrubs will not be appraised

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**1.C. Herbaceous Plants (Forbs, Grasses, Non-Woody Vines)**

	# of Native Species	Value(\$) per m <sup>2</sup>
<b>A</b>	1-10	\$12 * (% cover)
<b>B</b>	> 10	(# of species – 10) * (\$1) * (habitat rating)
<b>Total</b>		A + B

- Non-native herbaceous species will not be appraised

**2. Grassland / Prairie**

	# of Native Species	Value(\$) per m <sup>2</sup>
<b>A</b>	1-10	\$12 * (% cover)
<b>B</b>	> 10	(# of species – 10) * (\$2) * (habitat rating) + (\$12 * % cover)
<b>Total</b>		A + B

- Individual or small groupings of shrubs will be included in the above formula
- Individual trees will be valued according to 1.A.

**Additional Guidelines:**

- 1) If Naturalist Services Branch is not contacted prior to removal of habitat the value of compensation will be based on the nearest similar habitat with a grade equal to or better than the habitat destroyed.
- 2) The tree values are based on the Tree Removal Guidelines provided by the Urban Forestry Branch. Only one value will be applied to each tree. Urban Forestry Branch may assess trees in a low quality natural area at a higher value by not adjusting for the habitat grade value. If there is discrepancy between the Natural Area Removal Guideline and the Urban Forestry Branch Tree Removal Guideline the higher value shall apply.
- 3) In the case of habitats with unique or endangered species it is the position of the Naturalist Services Branch to deny requests for removal or destruction of the natural habitat
- 4) Contact Naturalist Services Branch for assistance with minimizing habitat impacts and thus reducing compensation requirements

**Notes:**

The Natural Areas Appraisal Document provides explanations and also contains examples of different scenarios and formula calculations. Please contact the Naturalist Services Branch to obtain copies.

## Tables and Appendices

Table 1. Habitat Rating for areas with trees

Native Cover (%)	Habitat Rating
1-8	.25
9-16	.50
17-24	.75
>24	1.00

Table 2. Habitat Rating for grassland areas

Native Cover (%)	Habitat Rating
0.1-12.5	.25
12.6-25.0	.50
25.1-37.5	.75
>37.6	1.00

Table 3. Habitat Grade Value

Habitat Grade	Habitat Grade Value
A	1.00
A/B	.90
B	.75
B/C	.50
C	.25
C/D	.10
D	.00

## Appendix 1: Species ratings for trees, shrubs, and woody vines

### Trees

<u>Scientific Name</u>	<u>Common Name</u>	<u>Species Rating %</u>
<i>Acer ginnala</i>	Amur Maple	70
<i>Acer negundo</i>	Manitoba Maple	60
<i>Acer saccharinum</i>	Silver Maple	70
<i>Betula papyrifera</i>	Paper Birch	70
<i>Betula pendula</i>	Weeping Birch	60
<i>Celtis occidentalis</i>	Hackberry	80
<i>Crataegus spp.</i>	Hawthorn	70
<i>Elaeagnus angustifolia</i>	Russian Olive	60
<i>Fraxinus mandshurica</i>	Manchurian Ash	90
<i>Fraxinus nigra</i>	Black Ash	60
<i>Fraxinus nigra "Fall Gold"</i>	Black Ash "Fall Gold"	80
<i>Fraxinus pennsylvanica</i>	Green Ash	80
<i>Larix spp.</i>	Larch	70
<i>Malus spp.</i>	Apple	70
<i>Picea spp.</i>	Spruce	80
<i>Pinus spp.</i>	Pine	60
<i>Pinus sylvestris</i>	Scotch Pine	70
<i>Populus spp.</i>	Poplar	50
<i>Prunus maackii</i>	Amur Choke Cherry	80
<i>Prunus spp.</i>	Plum	60
<i>Prunus virginiana "Shubert"</i>	Schubert Choke Cherry	80
<i>Pyrus spp.</i>	Pear	60
<i>Quercus macrocarpa</i>	Bur Oak	80
<i>Salix spp.</i>	Willow	50
<i>Sorbus americana</i>	American Mountain-ash	60
<i>Syringa reticulata "Ivory Silk"</i>	Japanese Tree Lilac	80
<i>Tilia americana</i>	American Basswood	80
<i>Tilia cordata</i>	Little Leaf Linden	70
<i>Tilia flavescens "Dropmore"</i>	Dropmore Linden	80
<i>Ulmus americana</i>	American Elm	100
<i>Ulmus davidiana var. japonica</i>	Japanese Elm	100
<i>Ulmus pumila</i>	Siberian Elm	60

### Native Shrubs

<u>Scientific Name</u>	<u>Common Name</u>	<u>Species Rating %</u>
<i>Amelanchier alnifolia</i>	Saskatoon	70
<i>Amorpha canescens</i>	Leadplant	100
<i>Amorpha fruticosa</i>	False indigo	90
<i>Amorpha nana</i>	Dwarf false indigo	60
<i>Betula glandulosa</i>	Dwarf birch	60
<i>Betula pumila</i>	Swamp birch	60
<i>Cornus stolonifera</i>	Red-osier Dogwood	50
<i>Corylus spp.</i>	Native Hazelnut	80
<i>Crataegus spp.</i>	Native Hawthorn	90
<i>Elaeagnus commutata</i>	Silverberry, Wolf-willow	60
<i>Potentilla fruticosa</i>	Shrubby cinquefoil	50
<i>Prunus pensylvanica</i>	Pin Cherry	70
<i>Prunus spp.</i>	Native Plum	100
<i>Prunus virginiana</i>	Chokecherry	70
<i>Ribes spp.</i>	Native Currant/Gooseberry	60
<i>Rosa spp.</i>	Native Rose	60
<i>Rubus ideaus</i>	Raspberry	50
<i>Salix spp.</i>	Native Willow	50
<i>Shepherdia spp.</i>	Buffaloberry	50
<i>Spiraea alba</i>	Narrow-leaved Meadowsweet	60
<i>Symphoricarpos spp.</i>	Native Snowberry	50
<i>Viburnum lentago</i>	Nannyberry	90
<i>Viburnum opulus</i>	High Bush Cranberry	80
<i>Viburnum rafinesquianum</i>	Downy Arrow-wood	90

### Native Woody Vines

<u>Scientific Name</u>	<u>Common Name</u>	<u>Species Rating %</u>
<i>Celastrus scandens</i>	Climbing bittersweet	80
<i>Lonicera dioica</i>	Twining Honeysuckle	80
<i>Menispermum canadense</i>	Yellow parilla	100
<i>Parthenocissus quinquefolia</i>	Virginia Creeper	50
<i>Vitis riparia</i>	Riverbank grape	70