

# WOODLOT LICENCE # 0024

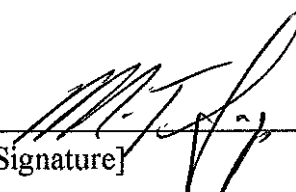
## WOODLOT LICENCE PLAN #2

First Term  
2008 to 2018

2625 South Forks Road  
Nanaimo, B.C.  
V9X 1E9

Authorized Licensee Signature:

Forest and Farms Enterprises Ltd.

  
[Signature]

  
[Date]

**APPROVED**

October 31, 2008

## DISCLAIMER

- Recognizing the special nature of management on a woodlot licence, this disclaimer forms part of the Woodlot Licence Plan (WLP) for Woodlot Licence Number 0024 (W0024) and advises that:
  - the decision to operate under one or more of the Default Performance Requirements provided in the Woodlot Licence Planning and Practices Regulation (WLPPR) is the sole responsibility of the woodlot licence holder, and involved no detailed oversight or advice from the prescribing registered professional forester. This disclaimer is signed on the explicit understanding and information provided by government that, the use and achievement of a Default Performance Requirement, meets the expectations of government with respect to the management of woodlot licences;
  - the undersigned Registered Professional Forester has been retained to provide advice on the practice of professional forestry with regard to items such as alternative performance requirements, applicable results and strategies and other required measures that do not have a default performance requirement provided in the WLPPR.

Signed \_\_\_\_\_



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# **1. CONTENT FOR A WOODLOT LICENCE PLAN (WLP)**

## **1.1 PLAN AREA**

This plan covers a portion of the Woodlot Licence area.

## **1.2 MAP AND INFORMATION**

This Woodlot Licence Plan covers only Blocks D and E in the Crown portion of W0024, located in the Nanaimo River and Shawnigan Lake areas respectively, as well as DL 5 in the private land portion of W0024, located in the Nanaimo River Area. The remaining portions of W0024 (Blocks A, B, C) were included in the Woodlot Licence Plan approved July 27, 2007.

The majority of the applicable information required to be addressed under Section 8(1) of the Woodlot Licence Planning and Practices Regulation (WLPPR) is identified on the map in Appendix III. Only the required information not identified on the map is included in this section.

### **Biogeoclimatic zones and subzones:**

Blocks D and E and DL 5 lie within the Coastal Western Hemlock Very Dry Maritime subzone.

### **Resource Management Zones, Landscape Units or Sensitive Areas:**

The entire woodlot licence lies within the E&N South General Management Zone of the Vancouver Island Land Use Plan. This woodlot licence plan is consistent with the applicable government objectives specified for this General Management Zone.

### **Scenic Areas:**

Only the Block E portion of this Woodlot Licence Plan lies within a Scenic Area. The portion of the woodlot within the Scenic Area has established Visual Quality Objectives (VQOs) as identified on the map in Appendix III.

### **Community Watershed:**

Block E lies entirely within the Shawnigan Lake Community Watershed, as identified on the map in Appendix III. Block E also lies adjacent to and down slope from the Greater Victoria Water District lands.

### **Community and domestic water supply intakes that are licensed under the Water Act and any related water supply infrastructures:**

There are no known licensed domestic water supply intakes or related water supply infrastructures located within or immediately adjacent to the woodlot licence area covered by this Woodlot Licence Plan. All water licenses are located downstream of the woodlot and located at the lake.

**Contiguous areas of sensitive soils:**

Potential areas of unstable terrain are identified in Block E only and identified on the map in Appendix III.

**Sensitive Ecosystem Inventory:**

A number of polygons are identified in the Ministry of Environment Sensitive Ecosystem Inventory (SEI). These include wetlands and terrestrial herbaceous ecosystems. These polygons have been identified on the ortho photos in Appendix IV, but often do not correctly match the forest cover polygons. As a result, the licensee will assess the locations of any nearby SEI polygons during road and cutblock layout to ensure that they are not impacted and accurately located on the map.

**Temporary or permanent barricades that restrict vehicle access:**

There are no temporary or permanent barriers (gates) to restrict vehicle on the Crown land portions of woodlot. However, the private forest land owner adjacent to Block D has a gate off West Shawnigan Lake that restricts road access to Block D.

**Resource features other than wildlife habitat features, archaeological sites and other features where the location must not be disclosed:**

At the time of preparing this woodlot licence plan, no resource features had been established within the woodlot licence area under the Government Actions Regulation. There were also no resource features within the woodlot licence area that were made "known" by the district manager under the regulations of the Forest Practices Code of BC Act.

**1.3 AREAS WHERE TIMBER HARVESTING WILL BE AVOIDED**

At the time of writing this woodlot licence plan, there are no portions of the woodlot licence area where the woodlot licence holder is aware of a legal requirement to completely avoid harvesting.

**1.4 AREAS WHERE TIMBER HARVESTING WILL BE MODIFIED****Modified harvesting where practice requirements in the WLPPR apply:**

1. Harvesting will be modified within the visual polygons (Block D) of the woodlot. Intermediate harvesting systems (commercial thinning), small clearcuts with reserves or partial cutting silviculture systems, or selection silviculture systems will be used to meet the Visual Quality Objectives.
2. Harvesting will be modified along streams within the Shawnigan Lake Community Watershed (SLCW).

**Retention of trees in riparian management zones:**

Unless exempted by the district manager, or the harvesting of a road clearing width is required, the woodlot licence holder is committed to retaining the following post harvest stand structure in riparian management zones:

Description of Post Harvest Stand Structure to be Retained in Riparian Management Zones for NS4 (non-fish) streams and wetlands			
Retention of all non-merchantable conifer trees, understory deciduous trees, shrubs, and herbaceous vegetation within 5 m of the channel to the fullest extent possible. Retention of wildlife trees.			
Trees to be Retained	Species	Fd, Cw, Hw, Dr, Mb	
	Characteristics	Merchantable and non merchantable, small and large diameter, including snags and other wildlife trees.	
Range of Residual Basal Area (m <sup>2</sup> /ha)	0% - 100%	OR	Range of Residual Trees/ha

Description of Post Harvest Stand Structure to be Retained in Riparian Management Zones for S6 streams			
Retention of all non-merchantable conifer trees, understory deciduous trees, shrubs, and herbaceous vegetation within 5 m of the channel to the fullest extent possible. Retention of wildlife trees.			
Trees to be Retained	Species	Fd, Cw, Hw, Dr, Mb	
	Characteristics	Merchantable and non merchantable, small and large diameter, including snags and other wildlife trees.	
Range of Residual Basal Area (m <sup>2</sup> /ha)	0% - 25%	OR	Range of Residual Trees/ha

## 1.5 CONSERVING AND PROTECTING CULTURAL HERITAGE RESOURCES

The woodlot licensee will implement the following strategies to conserve and protect cultural heritage resources that are the focus of a traditional use and of continuing importance to the Cowichan Tribes, Malahat and Nanaimo First Nation.

### Cedar Trees

Result: To enable access to cedar bark for First Nations use

Strategies:

- The licensee will continue to plant a component of western red cedar, where ecologically suited, in accordance with the stocking standards specified in this Woodlot Licence Plan;
- A minor component of pole sized cedar will be retained in cutblocks where it is currently evident;
- The licensee will notify the First Nations once a Cutting Permit is approved in an area where cedar is to be felled to facilitate bark stripping pre-harvest.

Result: To enable access to monumental cedar logs recognizing that Woodlot 0024 is only a small part of the traditional territory of each First Nation and may only have a limited number of such logs.

Strategy:

- The licensee will upon request, assist First Nations in identifying monumental cedar logs should the First Nation wish to utilise them for traditional uses.

### **Medicinal Plants**

Result: First Nation people will have continued access to medicinal plants

Strategies:

- Through information sharing with First Nations, the licensee will avoid proposing cutblocks in areas of rare or scarce plants where these rare or scarce plants have been identified by First Nations;
- The licensee will notify the First Nations of applications for Cutting Permits 30 days prior to submission to the Ministry of Forest and Range in order that any collections of plants can be completed by First Nations prior to harvest;

### **Spiritual Sites**

Result: Spiritual sites identified by First Nations will be protected to the extent possible by the woodlot licensee

Strategies:

- The licensee will share information with the First Nations and be available for field reviews upon request;
- Should the First Nations identify any spiritual sites, the licensee will consider excluding areas from harvest or modifying harvesting to minimize any impact to these sites, provided the spiritual sites do not unduly impact harvesting opportunity.

## **1.6 WILDLIFE TREE RETENTION STRATEGY**

Note: the proportion of the Woodlot Licence area that is occupied by wildlife tree retention areas is specified in the "PERFORMANCE REQUIREMENTS" section of this plan.

### **1.6.1 INDIVIDUAL WILDLIFE TREES**

#### **a) Species and Characteristics:**

Trees of all species occurring on the woodlot licence area may be selected as individual wildlife trees. Selection will favour trees that provide valuable wildlife tree attributes including signs of internal decay, trees with forks, large rotten branches, loose or cracked bark, recent scars, active wildlife use, existing cavities, nest trees, veteran trees and other large windfirm trees with poor form for sawlogs.

#### **b) Conditions Under Which Individual Wildlife Trees May Be Removed:**

Individual wildlife trees may be removed if they are considered a safety hazard or they become infested with insects which threaten the health of adjacent trees.

#### **c) Replacement of Individual Wildlife Trees:**

If individual wildlife trees are removed they will be replaced with trees of comparable wildlife tree value from a nearby location.

## 1.6.2 WILDLIFE TREE RETENTION AREAS

### a) Forest Cover Attributes:

Preference will be given to locating wildlife tree retention areas in stands that contain or have a good likelihood of developing valuable wildlife tree attributes as described above. To maintain biodiversity, an attempt will be made to provide representation of all tree species found on the woodlot licence area and focus on riparian management areas, areas identified in the Sensitive Ecosystem Inventory (MoE, 2004), relatively rare biogeoclimatic site series and other areas where harvesting constraints provide the best long term potential for stands to develop wildlife tree attributes associated with advanced age.

If root disease centres are selected to provide a continuing supply of dead and dying trees, coarse woody debris and biodiversity associated with stand openings, then these infection centres would be selected in areas where safety is not expected to be an issue (ie. a minimum one tree length away from roads and identified trails or future cutblock edges) and spread of the disease outside the wildlife tree retention is expected to be minimal (ie. timber/cutblock edges containing resistant or deciduous species).

### b) Conditions Under Which Trees May Be Removed from Wildlife Tree Retention Areas:

Trees may be removed if: they are considered a safety hazard; they become infested with insects or diseases which threaten the health of adjacent trees; they are windthrown into adjacent stands, cutblocks or regenerated areas; or there is a need to remove the trees to provide access to adjacent stands. If providing access to adjacent stands the removal of high quality wildlife trees will be kept to a minimum.

### c) Replacement of Trees Removed from Wildlife Tree Retention Areas:

If trees are removed from wildlife tree retention areas, they will be replaced with trees of comparable wildlife tree value from a nearby location. Where all or part of a wildlife tree retention area is salvaged, the salvaged area will be replaced with other suitable wildlife habitat in the nearest possible location. Suitable replacement areas will have characteristics that are consistent with the wildlife tree retention strategy. If a wildlife tree retention area suffers blowdown or is otherwise killed, but is not salvaged, it will not be replaced.

## 1.7 MEASURES TO PREVENT INTRODUCTION OR SPREAD OF INVASIVE PLANTS

The following measures will be implemented to reduce the introduction and spread of invasive plants that may result from the woodlot licensees' forest practices:

- Minimize soil disturbance.
- Seed disturbed roadside areas within the Shawnigan Lake Community Watershed portion of the woodlot as soon as practicable with the appropriate mix of fast growing species of grasses and legumes.

- Minimize the transport of invasive plant seed by removing burrs from clothing and equipment, and by checking the undercarriage of vehicles and removing invasive plants before leaving an infested area.
- Learn to identify invasive plants and recognize early stages of invasive plant development.
- Establish well stocked stands of trees that will eventually suppress invasive plants.

A number of species of invasive plants are evident in the private forest lands and subdivisions surrounding the woodlot licence areas as well as along the Trans Canada Trail adjacent to Block E, and are expected to encroach onto the woodlot over time.

## **1.8 MEASURES TO MITIGATE EFFECT OF REMOVING NATURAL RANGE BARRIERS**

This measure is not applicable because there are no range tenures within the woodlot licence boundary.

## **1.9 PERFORMANCE REQUIREMENTS**

### **1.9.1 STOCKING INFORMATION FOR SPECIFIED AREAS**

Unless exempted by the district manager, the stocking standards indicated below apply to areas where the establishment of a free growing stand is not required. Harvesting in specified areas is limited to:

- areas of commercial thinning,
- removal of individual trees, or
- areas subject to single/group tree selection, or
- other types of intermediate cutting, and/or
- for harvesting special forest products.

For the purposes of section 12 and 34(3) of the WLPPR the Uneven-aged Stocking standards for single-tree selection, as found in the MoF publication "Reference Guide for FDP Stocking Standards", are adopted. A copy of these stocking standards are included in Appendix I.

### **1.9.2 SOIL DISTURBANCE LIMITS**

- Alternative WLPPR s.24(1)(a):
- 8% of Net Area to be Reforested where no stumping for root disease is to be carried out
  - 15% of the Net Area to be Reforested For Cutblocks where stumping for root disease is to be carried out and root disease infection is moderate to high

**Rationale:**

Where terrain and soil conditions allow, stumping may be the licensee's preferred root disease treatment option. Stumping allows the most ecologically suitable species, Douglas-fir, to be regenerated. In other licensee's experience, soil disturbance levels have ranged up to 15% within cutblocks that were stumped for root disease control.

**1.9.3 PERMANENT ACCESS STRUCTURES**

Default: WLPPR s.25:

The maximum area occupied by permanent access structures is as follows:

1. For Cutblocks  $\geq 5$  ha – 7% of the total cutblock area
2. For Cutblocks  $< 5$  ha – 10% of the total cutblock area
3. For the Total Woodlot Licence Area – 7% of the total Woodlot Licence area

**1.9.4 STOCKING STANDARDS**

Alternative WLPPR s. 35(1)(a): The stocking standards, regeneration dates and free growing dates are indicated in Appendix IIA.

**Rationale:**

The stocking standards have been developed from the MoF publication "Reference Guide for Forest Development Plan Stocking Standards", dated December 11, 2002 and the standards established in the Woodlot Licence Forest Management Regulations (January 31, 2004) Division 2 of Part 6, Schedule A, Table A as well as the Correlated Guidelines and Site Interpretation for the Vancouver Forest Region. Site Units A-O are the general stocking standards.

There are areas within the woodlot licence area that are infected with root disease where stumping will not be carried out because of terrain, soil conditions or other reasons, necessitating standards in which the acceptable species, generally western red cedar and western white pine, will become the preferred species. Site Units P-R apply to sites affected by root disease.

**1.9.5 WIDTH OF STREAM RIPARIAN AREAS**

Default WLPPR s.36(4)(b):

The minimum width of the riparian reserve zone, riparian management zone and riparian management area are as described in WLPPR s.36(4)(b).

**1.9.6 WIDTH OF WETLAND RIPARIAN AREAS**

Default: WLPPR s.37(3)(b) The minimum width of the riparian reserve zone, riparian management zone and riparian management area are as described in WLPPR s.37(3)(b).

**1.9.7 WIDTH OF LAKE RIPARIAN AREAS**

Default: WLPPR s.38(2)(b) The minimum width of the riparian reserve zone, riparian management zone and riparian management area are as described in WLPPR s.38(2)(b).

**1.9.8 RESTRICTIONS IN A RIPARIAN RESERVE ZONE**

Default: WLPPR s.39(1) Cutting, modifying or removing trees in a riparian reserve zone is limited to the purposes described in Section 39(1) of the WLPPR.

**1.9.9 RESTRICTIONS IN A RIPARIAN MANAGEMENT ZONE**

Default: WLPPR s.40(1)(b)(c) or (d) Construction of a road in a riparian management zone is limited to the conditions described in Section 40(1) of the WLPPR without additional conditions to allow road construction being provided in the woodlot licence plan.

**1.9.10 WILDLIFE TREE RETENTION**

Unless exempted by the district manager, the proportion of the Woodlot Licence area that will be occupied by wildlife tree retention is:

Default WLPPR s.52(1)(c): 8 % of the woodlot licence area

**1.9.11 COARSE WOODY DEBRIS**

Unless exempted by the district manager or the WLPPR, the minimum amount of coarse woody debris to be left on areas where there is a requirement to establish a free growing stand is

Default: WLPPR s.54(1)(b)  
Area on Coast – minimum retention of 4 logs per ha  $\geq 5$  m in length and  $\geq 30$  cm in diameter at one end.

**1.9.12 RESOURCE FEATURES**

Unless exempted by the district manager, the woodlot licence holder will

Default WLPPR s.56(1)(b): Ensure that forest practices do not damage or render ineffective a resource feature.

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**Note:** Only the performance requirements in Part 3 (Practice Requirements) of the WLPPR for which an alternative can be proposed are shown in this Woodlot Licence Plan. The remaining performance requirements in Part 3 are not shown, nor are the performance requirements in Part 4 (Roads).

## APPENDICES

- **Stocking Standards for Specified Areas** that apply to commercial thinning, removal of individual trees, intermediate cuttings, and harvesting special forest products (WLPPR sections 12 and 34(3)).
- **Stocking Standards for Free Growing Stands** that apply to this WLP
- **The WLP Map**
- **Ortho photos identifying Sensitive Ecosystems**

**Appendix I: Stocking Standards for Specified Areas**

These layered stocking standards apply for the purposes of sections 12 and 34(3) of the Woodlot Licence Planning and Practices Regulation to areas where the establishment of a free growing stand is not required and harvesting is limited to commercial thinning, removal of individual trees, or a similar type of intermediate cutting, or the harvesting of special forest products. For salvage of scattered windthrow or root rot mortality, openings of up to 0.1 ha in size are acceptable, not requiring pre-harvest mapping, associated regeneration and requirements to establish a Free Growing stand. No long-term impact on timber yield is expected as the subject areas are likely to regenerate naturally or will be planted concurrent with harvest in adjacent areas.

SU	Biogeoclimatic Ecosystem Classification		Preferred Species	Acceptable Species	Layer	TSS (sph)	MSSpa (sph)	MSSp (sph)
	Zone	Subzone						
1	CWH	xm	Fd	Cw Pw	1	400	200	200
2			Cw Fd	Pw	2	500	300	250
3			Cw Fd Hw	Dr	3	700	400	300
4			Cw Fd	Bg Dr	4	900	500	400
5			Cw	Bg				
6			Cw Bg Fd					
7			Bg Cw					
8	CWH	xm	Fd Pl	Cw	1	300	150	150
9			Cw	Hw Pw	2	400	200	200
10			Cw		3	600	300	300
					4	800	400	400

SU = Standards Unit = a harvested area with the same stocking standards	Minimum Distance Between Well Spaced Trees = 2.0 meters except all healthy trees in the mature layer are considered well spaced	MSSpa = Minimum Stocking Standard of well spaced trees of preferred and acceptable species	Layer 1 = Mature trees ≥ 12.5 cm dbh Layer 2 = Pole trees ≥ 7.5 to < 12.5 cm dbh
TSS = Target Stocking Standard (sph) = healthy well spaced trees / ha		MSSp = Minimum Stocking Standard of well spaced trees of preferred species	Layer 3 = Sapling Trees > 1.3 m tall & < 7.5 dbh Layer 4 = Regeneration trees < 1.3 m tall.

**Appendix II: Stocking Standards, Regeneration Dates and Free Growing Dates for Free Growing Stands**

These stocking standards, regeneration dates and free growing dates are copied from the Ministry of Forests' publication, Reference Guide for Forest Development Plan Stocking Standards and apply for the purposes of section 35(1) (b) of the Woodlot Licence Planning and Practices Regulation to areas harvested under this woodlot licence plan where the establishment of a free growing stand is required under section 29(3) of the *Forest and Range Practices Act*.

<p>Regen date = Regeneration Date FG Date = Free Growing Date</p>	<p>MITD = Minimum distance between well spaced trees of the preferred and acceptable species</p>	<p>Crop Tree to Brush % = the height of free growing trees relative to the competing vegetation within a 1 m radius cylinder around the tree.</p>
<p>TSS = Target Stocking Standard (sph = healthy well spaced trees / ha)</p>	<p>MSSpa = Minimum Stocking Standard of well spaced trees of preferred and acceptable species</p>	<p>MSSp = Minimum Stocking Standard of well spaced trees of preferred species</p>

BGC		Regeneration Guide						Free Growing Guide				Comments
ID #	Classification Zone/SZ Series	Species		Stocking		Regen Delay (Max.yrs)	Assessment Date (yrs)	Species	Ht (m)			
		Conifer	Broadleaf	Target (well-spaced/ha)	MIN pa					MIN p		
		Pref (p)	Accep (a)									
A	CWHxm 01	Fd	Hw <sup>24</sup> Cw Pw <sup>31</sup>	Dr <sup>7,42,a</sup> Mb <sup>b</sup> Ep <sup>18,a</sup> Ra <sup>b</sup>	900	500	400	3	12	Fd 3.00 Pw 2.50 Hw 2.00 Cw, Lw 1.50	Zonal site	
B	CWHxm 02*	Pl Fd		Qg <sup>b</sup> Ra <sup>a</sup>	400	200	200	3	12	Pw 2.50 Fd 2.00 Lw, Ss 1.50 Pl 1.25 Cw 1.00	Avoid logging - xeric site, shallow soils	
C	CWHxm 03	Fd Pl <sup>6</sup>	Cw	Act <sup>b</sup> Dr <sup>p</sup> Ep <sup>3</sup> Mb <sup>b</sup> Ra <sup>b</sup>	800	400	400	3	12	Pw 2.50 Fd 2.00 Lw, Ss 1.50 Hw, Pl 1.25 Cw 1.00	None	
D	CWHxm 04	Fd	Cw Pw <sup>31</sup>	Act <sup>p</sup> Dr <sup>p</sup> Ep <sup>b</sup> Mb <sup>a</sup>	900	500	400	3	12	Fd 3.00 Pw 2.50 Hw 2.00 Cw, Lw 1.50	None	
E	CWHxm 05	Cw Fd	Pw <sup>31</sup>	Act <sup>42,a</sup> Dr <sup>42,a</sup> Ep <sup>18,a</sup> Mb <sup>a</sup>	900	500	400	3	12	Fd 4.00 Bg 3.50 Pw 2.50 Cw 2.00 Hw 1.75	None	
F	CWHxm 06	Cw Hw Fd <sup>18</sup>		Act <sup>b</sup> Dr <sup>7,41,a</sup> Ep <sup>18,a</sup> Mb <sup>b</sup>	900	500	400	6	14	Bg, Fd 3.00 Pw 2.50 Hw 2.00 Cw, Lw 1.50	None	

BGC		Regeneration Guide										Free Growing Guide			Comments
ID #	Classification Zone/SZ Series	Species		Broadleaf	Stocking		Regen Delay (Max.yrs)	Assessment Date (yrs)	Min. Height		Species	Ht (m)			
		Conifer	Accep (a)		Target (well-spaced/ha)	MIN pa			MIN p						
G	CWHxm 07	Pref (p) Cw Fd	Bg	Act <sup>41,a</sup> Dr <sup>41,a</sup> Ep <sup>18,a</sup> M <sup>41,a</sup>	900	500	400	3	12	Fd	4.00	None			
H	CWHxm 08	Cw Ss <sup>35</sup>	Bg	Act <sup>41,a</sup> Dr <sup>41,a</sup> Ep <sup>18,a</sup> M <sup>41,a</sup>	900	500	400	3	12	Fd, Ss	4.00	Floodplain			
I	CWHxm 09	Cw <sup>1</sup>	Bg <sup>1</sup>	Act <sup>41,a</sup> Dr <sup>41,a</sup> Ep <sup>18,a</sup> M <sup>41,a</sup>	900	500	400	3	12	Fd	4.00	Floodplain			
J	CWHxm 10	no conifers		Act <sup>b</sup> Dr <sup>p</sup> Ep <sup>b</sup> Mb <sup>b</sup>	-	-	-	-	-			Floodplain			
K	CWHxm 11*	Pi <sup>1</sup>	Cw <sup>1</sup>		400	200	200	3	12	Pw	2.50	Avoid logging - wet and very poor			
L	CWHxm 12	Cw <sup>1</sup>	Hw <sup>1</sup> Pw <sup>31</sup>	Act <sup>b</sup> Dr <sup>p</sup> Ep <sup>b</sup> Mb <sup>b</sup>	800	400	400	3	12	Fd	2.00	Organic soils - avoid ground based equipment			
M	CWHxm 13	Cw Bg Fd		Act <sup>41,a</sup> Dr <sup>41,a</sup> Ep <sup>18,a</sup> M <sup>41,a</sup>	900	500	400	3	12	Lw, Ss	1.50	Fluctuating water table			

BGC		Regeneration Guide					Free Growing Guide				
ID #	Classification Zone/SZ	Species		Broadleaf	Stocking		Regen Delay (Max yrs)	Assessment Date (yrs)	Species	Ht (m)	Comments
		Conifer	Accep (a)		Target (well-spaced/ha)	MIN pa					
N	CWHxm 14	Pref (p) Bg <sup>1</sup> Cw <sup>1</sup>		Act <sup>41,a</sup> Dr <sup>41,a</sup> Ep <sup>18,a</sup> Mb <sup>41,a</sup>	900	500	400	3	12	Fd 4.00 Bg 3.50 Pw 2.50 Cw 2.00	Fluctuating water table
O	CWHxm 15	Cw <sup>1</sup>		Act <sup>5</sup> Dr <sup>5</sup> Ep <sup>5</sup> Mb <sup>5</sup>	800	400	400	3	12	Fd 4.00 Bg 3.50 Pw 2.50 Cw 2.00	Fluctuating water table
P	CWHxm 01/04/06	Cw Pw <sup>31</sup>	Fd Hw <sup>24</sup>	Dr <sup>7,42,a</sup> Mb <sup>5</sup> Ep <sup>18,a</sup> Ra <sup>5</sup>	900	500	400	3	12	Fd 3.00 Pw 2.50 Hw 2.00 Cw, Lw 1.50	Alternate species root disease treatment
Q	CWHxm 03	Pw <sup>31</sup> Cw	Fd Pl <sup>6</sup>	Act <sup>5</sup> Dr <sup>5</sup> Ep <sup>5</sup> Mb <sup>5</sup> Ra <sup>5</sup>	800	400	400	3	12	Pw 2.50 Fd 2.00 Lw, Ss 1.50 Hw, Pl 1.25 Cw 1.00	Alternate species root disease treatment
R	CWHxm 05/07	Cw Pw <sup>31</sup>	Fd Bg <sup>1</sup>	Act <sup>42,a</sup> Dr <sup>42,a</sup> Ep <sup>18,a</sup> Mb <sup>5</sup>	900	500	400	3	12	Fd 4.00 Bg 3.50 Pw 2.50 Cw 2.00 Hw 1.75	Alternate species root disease treatment

Notes:

Minimum Inter-tree Distance (MITD) = 1.5 meters for planting on hygric, sub-hydric or mechanically site prepared areas and in areas of frequent bedrock, large blocky colluvium and disturbed roadside areas amongst slash accumulations (up to 10 m from road edge); and 2.0 meters on all other areas.

The Crop Tree to Brush % = 125% for the BG, ESSF, IDF, MH, MS, PP biogeoclimatic zones and 150 % for all other areas.

Footnote	<u>Footnote</u>	Footnote
#	#	#
1	elevated microsites are preferred	a
7	restricted to nutrient-medium sites	b
18	restricted to eastern portion of biogeoclimatic unit in region	
24	suitable (as a major species) in wetter portion of biogeoclimatic unit	#
25	suitable on sites lacking salal	62
31	risk of white pine blister rust	
35	risk of weevil damage	
41	limited by poorly drained soils	
42	restricted to fresh soil moisture regimes	

**Broadleaf Management Constraints**

productive, reliable, and feasible regeneration option limited in productivity, reliability and/or feasibility

**Localized Footnotes**

**S. Island forest district** - may only be used as acceptable species within the balsam woolly adelgid quarantine zone.

**Conifer Tree Species**

- "Ba" means amabilis fir;
- "Bg" means grand fir;
- "Bi" means subalpine fir;
- "Bp" means noble fir;
- "Cw" means western red cedar;
- "Fd" means Douglas-fir;
- "Hm" means mountain hemlock;
- "Hw" means western hemlock;
- "Lt" means tamarack;
- "Lw" means western larch;
- "Pa" means whitebark pine;
- "Pl" means lodgepole pine;
- "Pw" means white pine;
- "Py" means ponderosa pine;
- "Sb" means black spruce;
- "Se" means Engelmann spruce;
- "Ss" means Sitka spruce;
- "Sw" means white spruce;
- "Sx" means hybrid spruce or interior spruce;
- "Sxs" means hybrid Sitka spruce;
- "Sxw" means hybrid white spruce;
- "Yc" means yellow cedar.

**Broadleaf Tree Species**

- "Acb" means balsam poplar;
- "Act" means black cottonwood;
- "At" means trembling aspen;
- "Dr" means red alder;
- "Ep" means common paper birch;
- "Mb" means bigleaf maple;
- "Qg" means garry oak;
- "Ra" means arbutus;

**"Biogeoclimatic unit"** or **"BGC classification"** means the zone, subzone, variant and site series described in the most recent field guide published by the Ministry of Forests for the identification and interpretation of ecosystems, as applicable to a harvested area.

**"MIN** or **"Min"** means minimum.

**Appendix III: The Woodlot Licence Plan Map**

**Appendix IV: SEI Orthophotos**

## **2. SUPPLEMENTAL INFORMATION TO SUPPORT THE PROPOSED WOODLOT LICENCE PLAN**

Any Supplemental Information will be submitted with the WLP when the plan is submitted for approval.

### **2.1 REVIEW AND COMMENT**

#### **a) Advertising**

A copy of the newspaper advertisement under which the WLP was given public notice is included with this final submission.

**BARBARA FRANCIS CARRUTHERS, DECEASED**  
**NOTICE IS HEREBY GIVEN** that Creditors and Others having claims against the Estate of BARBARA FRANCIS CARRUTHERS, Retired, late of 3627 Park Lane, Cobble Hill, British Columbia, are required to send full particulars of such claim to Ridgway & Company, 200 - 44 Queens Road, Duncan, British Columbia, V9L 2W4, on or before the 24th day of March, 2008, after which date the Estate's assets will be distributed having regard only to claims that have been received.

**Woodlot Licence 0024  
 Draft Woodlot Licence Plan #2**

Forest and Farms Enterprises Ltd. hereby gives notice that the draft Woodlot Licence Plan (WLP#2) for those portions of Woodlot Licence 0024 located in the Shawnigan Lake and Nanaimo River areas is available for public review.

The purpose of the draft WLP is to describe where harvesting will occur, identifies the forest management strategies to meet government objectives, and the performance requirements that are to be met. If approved by the Ministry of Forests and Range District Manager, South Island Forest District, this plan may apply for a term of 10 years from the date of approval. The draft WLP is available for public comment and review through the South Island Forest District's website at [www.for.gov.bc.ca/dsi](http://www.for.gov.bc.ca/dsi) under "Woodlot Program." Alternative arrangements for viewing the plan can be made by contacting Nancy Pezel, consulting forester for W0024, at (250) 752-8896. Written comments on the draft plan should be mailed to Nancy Pezel, Islands West Forestry Ltd., 173 W. Hoylake Road, Qualicum Beach, B.C., V9K 1K3, by April 1st, 2008.

**Woodlot Licence 0024  
 Draft Management Plan #3**

Forest and Farms Enterprises Ltd. hereby gives notice that the draft Management Plan #3 for Woodlot Licence 0024, located in the Malahat, Shawnigan Lake and Nanaimo River areas, is available for public review.

The purpose of the draft Management Plan is to describe the known timber and non-timber resources of the area, outline the forest management objectives, and state the Forest Management guidelines that are to be followed. If approved by the Ministry of Forests and Range District Manager, South Island Forest District this plan may apply for a term of 10 years from the date of approval.

The draft Management Plan is available for public comment and review through the South Island Forest District's website at [www.for.gov.bc.ca/dsi](http://www.for.gov.bc.ca/dsi) under "Woodlot Program." Alternative arrangements for viewing the plan can be made by contacting Nancy Pezel, consulting forester for W0024, at (250) 752-8896. Written comments on the draft plan should be mailed to Nancy Pezel, RPF, 173 W. Hoylake Road, Qualicum Beach, BC, V9K 1K3 by April 1st, 2008.

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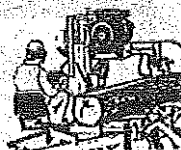
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b) Referrals

Letters regarding the review period for the draft WLP were sent to the following:  
Frank Ullmann, Recreation Officer, Ministry of Tourism, Sport and the Arts, Port Alberni  
Kevin Telfer, Ecosystem Biologist, Ministry of Environment, Nanaimo

c) Copy of Written Comments Received

Written comments received during the review and comment period are included in this final submission.



# VanWest Forestry Ltd

email: [aldelisle@shaw.ca](mailto:aldelisle@shaw.ca)

Tel: 604-609-4542

Cell: 778-889-9410

Fax: 604-609-6047

May 1, 2008

Nancy Pezel, RPF  
Islands West Forestry Ltd  
173 W. Hoylake Rd  
Qualicum Beach BC V9K 1K3

By fax and email:

Dear Nancy:

**Re: Woodlot Licence 0024 Management Plan # 3 and Woodlot Licence Plan # 2**

Thank you for providing the above plans for our review. I have reviewed the plans and find the plans have been completed in accordance with the legislation. You should be aware that the Crown lands covered by the above woodlot in the Malahat First Nation's (MFN) traditional territory have been identified as potential Treaty Settlement Lands (TSL). As you can appreciate the MFN is concerned with any potential activities that may take place on the lands, especially the use of fertilizers, pesticides or any storage, spill or leakage of fuel, as well as how the lands will be harvested, especially around existing creeks and streams.

Given the importance of these lands, the MFN would like to participate in any traditional use studies carried out on the lands. We would also like to ensure that there is a process in place to review an application for a cutting permit, road construction, silvicultural work and /or logging operations at least 30 days in advance of commencing any operations with the licensee. The MFN would also like to arrange a tour of the lands with you and your client in the near future. Thank you.

Yours truly,

Alan R. DeLisle, RPF, R.I. (BC)

Cc: Chief Randy Daniels  
Rick Steinson, Band Administrator  
Emma Neill, Woodlot Forester, Ministry of Forests and Range

---

VanWest Forestry Ltd.  
616 -602 West Hastings Street  
Vancouver BC V6B 1P2

#### d) Revisions Made as a Result of Written Comments Received

Section 1.2 was revised to include Sensitive Ecosystems because these are not identified on the map in Appendix III. Orthophotos identifying the Sensitive Ecosystems have been included in Appendix IV.

Section 1.2 was also revised to include a description of temporary or permanent barricades that restrict vehicle access because these are not shown on the map in Appendix III.

As a result of comments received from Alan DeLisle, RPF, consulting forester to the Malahat Band, Section 1.5 was reworded to provide the First Nations a minimum of 30 days notice prior to cutting permit and road permit submissions to allow them to collect medicinal plants and strip cedar bark prior to harvesting and/or road building. Because the First Nations will be notified prior to CP and RP submissions, the licensee will not notify them again 30 days prior to actual harvesting or road construction activities. However the licensee will likely provide an estimated timeline of when activities will occur at the time the cutting permit maps are submitted to the First Nations. Because silviculture activities are carried out on an ongoing and as needed basis, and timing often depends on contractor scheduling, the licensee is unable to provide 30 day advance notice of these activities.

Wording changes were made in Section 1.9.1 to more clearly define where the Stocking Information for Specified Areas would apply. Corresponding minor wording changes were also made to the shaded area in Appendix I to be consistent with Section 1.9.1.

Appendix IIA was revised to include only a Free Growing Assessment date, as per the Woodlot Licence Forest Management Regulations (January 31, 2004) Division 2 of Part 6, Schedule A, Table A, not early and late Free Growing dates.

The legend on the map in Appendix III was revised to identify the potentially unstable terrain.

No other changes were made to the text or Appendices of this WLP.

## 2.2 EFFORTS MADE TO MEET WITH FIRST NATIONS

February 28<sup>th</sup>, 2008

On behalf of the licensee, Nancy Pezel sent a copy of the Woodlot Licence Plan and map via Express Post (with Signatory receipt) to the Snuneymuxw First Nation, Cowichan Tribes and Malahat Band with a letter informing them of the Woodlot Licence Plan review period, and requesting written comments on the plan be forwarded to Nancy.

March 3<sup>rd</sup>, 2008

The Malahat Band received the WLP.

March 28<sup>th</sup>, 2008

Nancy spoke to the receptionist at the Snuneymuxw First Nation office in person enquiring if the WLP had been received because Canada Post's tracking system indicated that the package had not yet been delivered. The receptionist could not verify that the package had been delivered. To date, the WLP sent to Cowichan Tribes had also not been delivered according to Canada Post's tracking system.

April 18<sup>th</sup>, 2008

Nancy Pezel sent another copy of the Woodlot Licence Plan and map via Express Post (with Signatory receipt) to the Snuneymuxw First Nation and Cowichan Tribes because Canada Post could not confirm the packages were ever delivered and Nancy had received no confirmations from either First Nations.

April 21<sup>st</sup>, 2008

Cowichan Tribes received their copy of the WLP.

April 23<sup>rd</sup>, 2008

Lorraine (secretary to the Chief) at the Snuneymuxw First Nation office confirmed that the original WLP arrived on March 5<sup>th</sup>, but that they would not be able to get a response out until the second deadline (June 14<sup>th</sup>).

April 23<sup>rd</sup>, 2008

Nancy left a message with John Keating (acting Lands Manager) of Cowichan Tribes informing him of the second WLP and request for comments. No comments were received by the end of the 2<sup>nd</sup> deadline.

May 1<sup>st</sup>, 2008

Written comments were received from Alan Delisle, RPF on behalf of the Malahat First Nation.

June 6<sup>th</sup>, 2008

Nancy Pezel received a phone message from Lorraine of the Snuneymuxw First Nation stating they are opposed to logging on Crown Land, that they are dissatisfied with the current referral process, and that they will be going through Integrated Land Management Bureau. No written comments were received.

## **2.3 RATIONALE IN SUPPORT OF PROPOSED ALTERNATIVE PERFORMANCE REQUIREMENTS**

An Alternative Performance Requirement is being proposed for Soil Disturbance Limits and a rationale is included in Section 1.9.2.

An Alternative Performance Requirement is being proposed for Stocking Standards and a rationale is included in Section 1.9.4.