



The **Teal-Jones Group**

Teal Cedar Products Ltd.

P.O. Box 470, Sandspit, B.C. Canada V0T 1T0

Phone: (250) 637-5323 FAX: (250) 637-2219

2007 – 2012 FOREST STEWARDSHIP PLAN

**Queen Charlotte Islands Forest District
Queen Charlotte Timber Supply Area**

**Tree Farm Licence 58
Forest Licence A16870
Timber Licence T0184
Timber Licence T0253**



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1.0 Introduction

This Forest Stewardship Plan (“FSP”) applies to Tree Farm Licence No. 58 (“TFL 58”), Timber Licence T0184 (“T0184”), Timber Licence T0253 (“T0253”), and Forest Licence A16870 (“FL A16870”). All of these licences are located within the Queen Charlotte Islands Forest District. TFL 58 is located on Moresby Island and is geographically separated into two halves. Part A, is the area from Alliford Bay west to Government Creek and Part B is the area from the eastern edge of Skidegate Lake to Gray Bay. T0184 and T0253 are scattered on Graham Island in blocks dispersed from Trounce Inlet to Miller Creek. FL A16870 is located within the Queen Charlotte Timber Supply Area (“TSA”) and has been focused primarily within the Kagan peninsula and Long Inlet areas.

This FSP is held by TFL Forest Ltd. and managed by Teal Cedar Products Ltd. as management agent.

1.1 Definitions

In this plan:

- “**Date of Submission**” means _____, which is the date this FSP was submitted for approval.
- “**FSP**” means forest stewardship plan;
- “**FSP Map**” means the map prepared in accordance with FRPA section 5;
- “**FDU**” means a forest development unit shown on the FSP Map;
- “**First Nation**” means the Haida Nation, Council of the Haida Nation, Skidegate Band Council and/or Old Massett Village Council.
- “**FPPR**” means the *Forest Planning and Practices Regulation* BC. Reg. 14/2004 consolidated to November 24, 2005.
- “**FRPA**” refers to the *Forest and Range Practices Act*. SBC, 2002 consolidated to November 24, 2005.
- “**Heritage Conservation Act**” Refers to the act and regulations that are approved as of June 10, 2005.
- “**Legislative Planning Date**” means:
- (a) subject to clause (b), the date 4 months before the Date of Submission; or
 - (b) if an enactment or an objective set by government requires that a date different than the date referred to in clause (a) be applied under this FSP, then that different date.
- “**Licensee**” means TFL Forest Ltd., as represented by its management agent, Teal Cedar Products Ltd. (The Teal-Jones Group)



1.2 Relevant Date for Legislation and Objective References

In this FSP, unless this FSP specifies otherwise, a reference to legislation, an established objective, a notice under FPPR section 7(2), a designation of a species to which such a notice or established objective applies, an establishment of an area referred to in FPPR section 14 notice or established objective applies, an establishment of an area referred to in FPPR section 14(3)(a) to (i) or an order made by government means that legislation established objective, notice, designation area or order as it was on the Legislated Planning Date.

1.3 Definitions from Legislation

In this FSP, unless this FSP specifies, or the context requires, otherwise words and phrases defined in FRPA, the FPPR or the *Forest Act* as of the Legislated Planning Date have the same meaning as those definitions.

1.4 Changes to Legislation

If legislation referred to in this FSP is renamed or a provision of legislation referred to in this FSP is renumbered, the reference in this FSP is to be construed as a reference to the provision as renamed or renumbered, as the case may be.

1.5 Expressions Inclusive

In this FSP, unless this FSP specifies, or the context requires, otherwise:

- (a) the singular includes the plural and the plural includes the singular;
- (b) the masculine, the feminine and the neuter are interchangeable and each includes the body corporate.

1.6 Authority from Government

Without limiting any other provision in this FSP, this FSP does not apply to a primary forest activity undertaken by the licensee if and to the extent that the government, with the consent of the licensee, expressly authorizes such activities to be undertaken in a manner that differs from the requirements of this FSP.

1.7 No Prohibition on Activities Otherwise Permitted or Required

Despite any other provision in this FSP, nothing in this FSP prevents, affects or limits the licensee from carrying out an activity permitted by FPPR section 4(1.1).



1.8 Cancellations of Designations, Objective, Notice, Species or Order

1. Without limiting any other provision of this FSP, if:

- (a) an event as described in FPPR section 7; or
- (b) a designation or other thing referred to in FPPR sections 14(3)(a) to (i) that is shown on the FSP Map;
- (c) a new objective is established; or
- (d) a species is designated; or
- (e) the Minister in writing informs the licensee that an amendment is required

for or in respect of which a result or strategy is included under this FSP, is cancelled or is otherwise no longer in effect, the result or strategy under this FSP pertaining to the thing referred to in subparagraph (a) to (e) no longer applies effective the date that thing is cancelled or otherwise no longer in effect

2. Term

For the purposes of FRPA section 6(1),

- (a) this FSP will commence on the date specified in writing by the Minister in approving the plan, which date is: _____ TBA _____; and
- (b) the term of this FSP will be 5 years from the date it commences unless:
 - (i) terminated earlier by the holder of this FSP by giving notice to the Minister, or,
 - (ii) extended by the Minister as per FRPA section 6(2).

2.0 Application of this Forest Stewardship Plan

For the purposes of FRPA section 3(4), this FSP applies to the following licences;

- (a) Tree Farm Licence 58
- (b) Forest Licence A16870;
- (c) Timber Licence T0184; and
- (d) Timber Licence T0253.

2.1 Forest Development Units

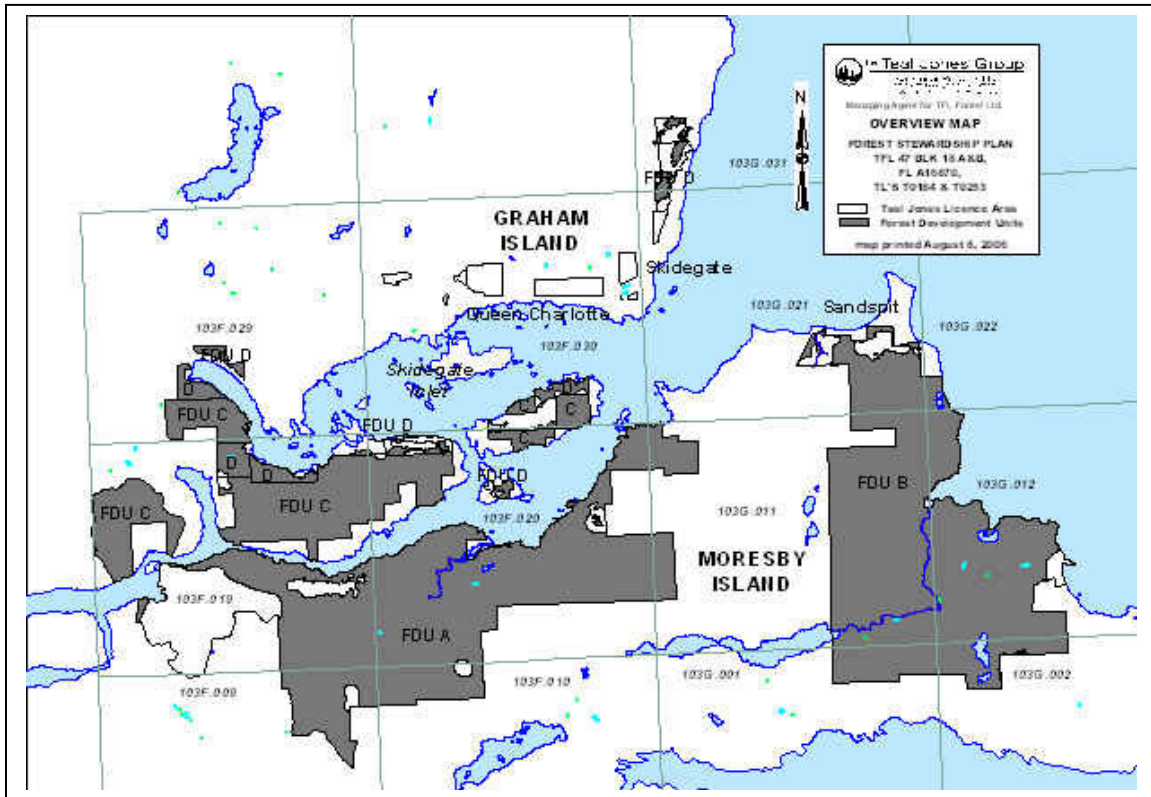
For the purposes of FRPA section 5(1) (a)(ii) and FPPR section 14(1), the FDUs under this FSP are shown on the FSP Map and identified in Table 2.1.



Table 2.1 Forest Development Units

FDU	Applicable Landscape Unit	Geographical Area
A	Skidegate Lake/Hibben	Deena River
B	Skidegate Lake	Copper River
C	Honna/Gudal	Long Inlet/Kagan Bay
D	Honna/Gudal	Trounce Inlet/Kagan Peninsula

Overview Map



2.2 Designation, Permits and Other Things

For the purposes of FPPR sections 14(2) and (3), the FSP Map identifies the things required to be identified by those sections of FRPA and the FPPR where applicable to this FSP:

- (a) wildlife habitat areas;
- (b) scenic areas;
- (c) community watersheds;
- (d) area where commercial timber harvesting is prohibited by another enactment;
- (e) cutting permits and road permits held by the licensee



3.0 Areas Considered Approved

3.1 In accordance with FRPA section 7(1)(a), any cutting permit or road permit in effect on the date of the submission of this FSP for TFL 58; FL A16870; TL T0184 and TL T0253.

3.2 In accordance with FPPR section 14(1)(c), cutblocks and roads shown in previously approved forest developments plans for TFL 58; FL A16870; TL T0184 and TL T0253 as having all required assessments completed per FRPA section 196(1) are considered to have received the Minister's approval under this FSP.

3.3 In accordance with FPPR section 14(1)(c), cutblocks and roads included as part of the forest developments plans for TFL 58; FL A16870; TL T0184 and TL T0253 in effect on the date of the submission of this FSP are considered to have received the Minister's approval under this FSP per FRPA section 196(2).

4.0 Declared Areas

For the purposes of FPPR section 14(4), there are no declared areas within this FSP.

5.0 Results or Strategies

For the purposes of FRPA section 5(1)(b), the following are results or strategies required to satisfy the objectives that apply to this FSP.

5.1 Soils

Background
The objective set by government under FPPR section 5 for soils is: <i>without unduly reducing the supply of timber from British Columbia's forests, to conserve the productivity and the hydrologic function of soils.</i>



In order to achieve the objective for soils, the licensee commits to the following results during the term of the plan:

Table 5.1 Soils

Result Reference #	Item	Result or Legislated Default as Per section 12 of FPPR	Application
5.1.1	Soil disturbance limits	FPPR section 35	All FDU's
5.1.2	Permanent access structure limits	FPPR section 36	All FDU's

5.2 Wildlife

Background
<p>The objective set by government for wildlife as per FPPR section 7 is: <i>without unduly reducing the supply of timber from British Columbia's forests, to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas, for</i></p> <ul style="list-style-type: none"> <i>(a) the survival of species at risk</i> <i>(b) the survival of regionally important wildlife, and</i> <i>(c) the winter survival of specified ungulate species.</i>

In respect of the notice entitled “*Indicators of the Amount, Distribution, and Attributes of Wildlife Habitat Required for the Winter Survival of Species At Risk in the Queen Charlotte Forest District*” issued on December 15, 2004 in accordance with the FPPR section 7, the results that apply to Marbled Murrelet (*Brachyramphus marmoratus*) for all FDU's are:

5.2.1 The licensee will ensure that no timber harvesting or road construction occurs on Class 1 and Class 2 nesting habitat in the non-contributing land base (as identified on the FSP Map) that are consistent with the attributes and distribution for the identified species as set out in the applicable notice, except as described under section 5.2.2.

5.2.2 Where it is impracticable to avoid timber harvesting or road construction on the area described under section 5.2.1, the total area harvested will be tracked on a ledger. The licensee will replace the harvested area with a wildlife tree retention area located on Class 1 and Class 2 nesting habitat in the contributing land base. The licensee will ensure that at no time does the ledger deficit exceed 10 hectares.

5.2.3 The licensee will ensure that no timber harvesting or road construction occurs on an amount of suitable nesting habitat within Old Growth Management Areas consistent with the direction from Landscape Unit Planning.



5.3 Water, Fish, Wildlife and Biodiversity in Riparian Areas

Background
The objective set by government for water, fish, wildlife and biodiversity within riparian areas as per FPPR section 8 is, <i>without unduly reducing the supply of timber from British Columbia's forests, to conserve, at the landscape level, the water quality, fish habitat, wildlife habitat and biodiversity associated with those riparian areas.</i>

In order to achieve the objective for Water, Fish, Wildlife and Biodiversity within the Riparian area, the licensee commits to the results indicated in Table 5.2.

Table 5.2 Fish and Water Quality

Result Reference #	Item	Result or Legislated Default as Per section 12 of FPPR	Application
5.3.1	Stream riparian classes	section 47 of the FPPR	All FDU's
5.3.2	Wetland riparian classes	section 48 of the FPPR	All FDU's
5.3.3	Lake riparian classes	section 49 of the FPPR	All FDU's
5.3.4	Restrictions in a riparian management area	section 50 of the FPPR	All FDU's
5.3.5	Restrictions in a riparian reserve zone	section 51 of the FPPR	All FDU's
5.3.6	Restrictions in a riparian management zone	section 52(2) of the FPPR	All FDU's
No result or strategy is specified under FPPR section 53, "Restrictions in a temperature sensitive stream RMA," since no stream reaches under this designation occur in the area under this plan.			



For the purposes of FPPR section 8 and section 12(3), if harvesting timber in a riparian management zone in all FDUs, the licensee commits to the results indicated in Table 5.3.

Table 5.3 Retention in Riparian Management

Column 1 Riparian Class	Column 2 Basal Area to be Retained Within RMZ at the Conclusion of Harvesting in Percent
S1-A	≥ 20
S1-B	≥ 20
S2	≥ 20
S3	≥ 0
S4	≥ 0
S5	≥ 0
S6	≥ 0
W1	≥ 10
W2	≥ 10
W3	≥ 10
W4	≥ 10
W5	≥ 10
L1-A	≥ 0
L1-B	≥ 0
L2	≥ 10
L3	≥ 10
L4	≥ 10

5.6 Wildlife and Biodiversity – Landscape Level

Background
<p>The objective set by government for wildlife and biodiversity at the landscape level as per FPPR section 9 is: <i>without unduly reducing the supply of timber from British Columbia's forests and to the extent practicable, to design areas on which timber harvesting is to be carried out that resemble, both spatially and temporally, the patterns of natural disturbance that occur within the landscape.</i></p>



In order to achieve the objective for Wildlife and Biodiversity – Landscape Level, the licensee commits to the results indicated in Table 5.4.

Table 5.4 Wildlife and Biodiversity

Result Reference #	Item	Result or Legislated Default as Per section 12 of FPPR	Application
5.6.1	Maximum cutblock size	section 64 of the FPPR	All FDU's
5.6.2	Harvesting adjacent to another cutblock	section 65 of the FPPR	All FDU's

5.6.1 Non-Spatial Old Growth Order

Background
On June 30, 2004, the Order Establishing Provincial Non-Spatial Old Growth Objectives was established. The objective is to conserve biodiversity through maintaining old forest by biogeoclimatic variant within each landscape unit according to the age of old forest and the percentage of old forest retention necessary within each natural disturbance type.

The licensee commits to the result that it will not harvest timber within a landscape unit listed in Table 5.5 if such harvesting will reduce the amount of old forest to be retained in that landscape unit below the “Percent of Old Forest Retention” specified in Table 5.5.

Table 5.5 Old Forest Retention

Landscape Unit	Retention Unit		Percent of Old Forest Retention	Application
	Biodiversity Emphasis Option	Biogeoclimatic Variant		
Skidegate Lake	Low	CWH	13	FDU A and FDU B
		MH	19	FDU A and FDU B
Hibben	High	CWH	19	FDU B
		MH	28	FDU B
Honna	Intermediate	CWH	13	FDU C and FDU D
		MH	19	FDU C and FDU D

Implementation of these percentages will be as described in the Implementation Policy supplied with the June 30th, 2004 Order.



5.7 Wildlife and Biodiversity – Stand Level

Background
The objective set by government for wildlife and biodiversity at the stand level as per FPPR section 9.1 is: <i>without unduly reducing the supply of timber from British Columbia's forests, to retain wildlife trees.</i>

Table 5.6 Stand Level Biodiversity

Result Reference #	Item	Result or Legislated Default as Per section 12 of FPPR	Application
5.7.1	Wildlife tree retention	section 66 of the FPPR	All FDUs
5.7.2	Restriction on Harvesting within Wildlife Tree Retention areas	section 67 of the FPPR	All FDUs

5.8 Visual Quality

Background
Visual quality objectives have been established under GAR section 7(2) in December, 2005 for all areas under this FSP within the Queen Charlotte Timber Supply Area. For all areas under this FSP within TFL lands, visual quality objectives are established under Management Plan No. 3, Part B, Moresby Island Management Unit.

The licensee commits to the following results in all FDUs under this FSP:

5.8.1 Subject to paragraph 5.8.3, the licensee will design timber harvesting and road construction activities, to which this FSP applies, to be consistent with the established visual quality objectives (“VQOs”), that are in effect on the Legislated Planning Date and applicable to the scenic areas in which the timber harvesting or road construction activities are located.

5.8.2 The VQO categories of preservation, retention, partial retention, modification and maximum modification will be as defined in FPPR section 1.1.

5.8.3 The licensee may design timber harvesting and road construction activities that produce alterations different than that specified for a visual quality objective to the extent that the timber harvesting or road construction activities are related to salvage harvesting or otherwise authorized or required by government.



5.9 Cultural Heritage Resources

Background
<p>The objective set by government for cultural heritage resources as per FPPR section 10 is: <i>to conserve, or, if necessary, protect cultural heritage resources that are:</i></p> <ul style="list-style-type: none"><i>(a) the focus of a traditional use by an aboriginal people that is of continuing importance to that people, and</i><i>(b) not regulated under the Heritage Conservation Act.</i>

In order to achieve the objective for Cultural Heritage Resources, the licensee commits to the following strategies in all FDUs:

5.9.1 The licensee will identify to the Haida Nation the approximate locations of proposed timber harvesting and road construction prior to submitting cutting permits and road permits. To provide an opportunity for review and comment on these proposed cutblock and road locations, the licensee will provide a 60-day review period to the Haida Nation to allow for the review and submission of comments. Consultation completed on cutblocks and roads described under Section 3.0 of this FSP will be considered valid and applicable to this FSP.

5.9.2 Where site specific cultural heritage resource information is brought forth by the Haida Nation regarding a traditional use or site that is of continuing importance in the location of proposed timber harvesting or road construction, the licensee will:

- (a) Record the location of the cultural heritage resource;
- (b) Make reasonable efforts to discuss with the Haida Nation how the proposed forest practice can be constrained or altered so as not to damage or render ineffective the cultural heritage resource;
- (c) Conserve or, if necessary, protect the cultural heritage resource at that location, considering:
 - i. The relative value or importance of the cultural heritage resource to a traditional use or site by the Haida Nation;
 - ii. The relative abundance or scarcity of the cultural heritage resource;
 - iii. The historical extent of the traditional use of the cultural heritage resource;
 - iv. The impact on the licensee's government granted timber harvesting rights in conserving or protecting the cultural heritage resource; and
 - v. The options for mitigating the impact that a forest practice might have on a cultural heritage resource that is the focus of a traditional use by the Haida Nation

5.9.3 Upon request from the Haida Nation, the licensee will assist in the identification of cultural cedar logs where the use of those logs is for cultural or other traditional uses, considering the impact on the licensee's government granted timber harvesting rights.



6.0 Measures

6.1 Invasive Plants

For the purpose of FRPA section 47 and FPPR section 17, the licensee will, in all FDUs:

6.1.1 On an annual basis, identify areas of known sites of invasive plants specified in the *Invasive Plants Regulation* and sites considered by the prescribing site plan forester as high or extremely high risk to invasive plant establishment through forest practices, using information gathered from the Ministry of Forests and Range district staff, regional experts, or other agencies.

6.1.2 Within 60 days of completing a forest practice within sites identified in subsection (1), seed with ecologically suited grass and legumes areas of exposed mineral soil that were disturbed by the forest practice and not to be reforested. The areas to be re-vegetated will be ditch lines, cut-slopes, fills and deactivated roads. Seed used to re-vegetate soils will meet or exceed the Canada Common #1 grade.

7.0 Grandparented Specified Designations

7.1 Recreation Sites

Background
Two recreational sites were established on December 31, 1997: Gray Bay and Kagan Bay. The objectives for both sites are to provide a roaded recreational experience.

As per section 180(j) of FRPA the licensee will not propose any forest practices other than maintenance of existing roads under permit to the licensee within the designated recreation sites that are within all FDUs of this FSP and described as per the BC gazette advertised areas of April 6, 1989 for:

1. Gray Bay
2. Kagan Bay



8.0 Stocking Standards

FPPR section 44 applies in all situations where a free growing stand is required to be established according to FRPA section 29. FPPR section 45 is not applicable to the plan area.

8.1 Stocking Standards for Even Aged Stands

For situations or circumstances where FPPR section 44 applies, Tables 8.1 – 8.3 indicate the regeneration date, free growing height and stocking standards. For the purposes of FPPR section 16(3), Tables 8.1 – 8.3 specify the regeneration date, free growing height and stocking standards that apply in all situations or circumstances where a free growing stand is required to be established according to FRPA section 29.

Table 8.1 CWHwh1 Stocking Standards

BEC: CWHwh1																		
Site Series	Preferred Species						Acceptable Species								Stocking (well spaced)			Regen Date
	1	Ht (Min)	2	Ht (Min)	3	Ht (Min)	1	Ht (Min)	2	Ht (Min)	3	Ht (Min)	4	Ht (Min)	Target P&A (s/p)	Min P&A (s/p)	Min P (s/p)	
01	Hw	2.0	Ss ²⁶	3.0			Cw	1.5							900	500	400	6
01s	Cw	1.5	Hw	2.0											900	500	500	6
02	Cw	1.2	Hw	1.25			Pl ⁵³	1.25	Ss	2.0					900	500	400	6
03	Cw	2.0	Ss	4.0	Yc ¹³	1.2	Hw	2.75							900	500	400	3
04	Cw	1.2	Hw	1.25	Yc ¹³	1.2	Pl	1.25	Ss ²⁵	2.0					900	500	400	6
05	Cw	2.0	Ss	4.0			Hw	2.75							900	500	400	3
06	Cw ¹	2.0	Ss	4.0	Yc ¹³	1.2	Hw	2.75	Hm ¹³	2.75					800	500	400	3
07	Cw	2.0	Ss ¹	4.0			Hw	2.75							900	500	400	3
08	Ss ¹	4.0					Cw	2.0							900	500	400	3
10	Cw ¹	1.2					Hw	1.25	Yc ¹	1.2	Pl ¹	1.25	Ss ⁷	1.25	800	400	300	3
12	Cw ¹	1.2					Hw	1.25	Yc ¹	1.2	Pl ¹	1.25	Ss ⁷	1.25	800	400	400	3

- 1- elevated microsites are preferred
- 2- suitable on thick forest floors
- 7- restricted to nutrient-medium sites
- 8- minor component
- 13- restricted to upper elevations biogeoclimatic unit
- 25- suitable on sites lacking salal
- 26- suitable minor species on salal dominated sites
- 36- major species on salal-dominated sites
- 53- minor component



Table 8.2 CWHwh2 Stocking Standards

BEC: CWHwh2																		
Site Series	Preferred Species						Acceptable Species								Stocking (well spaced)			Regen Date
	1	Ht (Min)	2	Ht (Min)	3	Ht (Min)	1	Ht (Min)	2	Ht (Min)	3	Ht (Min)	4	Ht (Min)	Target P&A (s/p)	Min P&A (s/p)	Min P (s/p)	
01	Hw	2.0					Ss	1.5	Cw	1.5	Yc	1.5	Hm ¹³	2.0	900	500	400	6
02	Hw	2.0	Cw	1.5	Yc	1.5	Hm	1.0	Ss ^{7,14}	1.5					900	500	400	6
03	Hw	2.0	Cw	1.5	Yc	1.5	Ss ¹⁴	1.5							900	500	400	3
04	Cw ¹	1.5	Hw ¹	2.0	Y ¹	1.5	Ss ^{1,14}	1.5							800	400	200	3
05	Yc ¹	1.2					Cw ¹	1.2	Hm ¹	0.8	Ss ^{1,14}	1.5	Hw ¹	1.25	400	200	200	3
06	Yc ¹	1.2					Cw ¹	1.2	Hm ¹	0.8	Ss ¹	1.5	Hw ¹	1.25	800	400	400	3

- 1- elevated microsites are preferred
- 7- restricted to nutrient –medium sites
- 13- restricted to upper elevations of biogeoclimatic unit
- 14- restricted to lower elevations of biogeoclimatic unit

Table 8.3 CWHvh2 Stocking Standards

BEC: CWHvh2																		
Site Series	Preferred Species								Acceptable Species						Stocking (well spaced)			Regen Date
	1	Ht (Min)	2	Ht (Min)	3	Ht (Min)	4	Ht (Min)	1	Ht (Min)	2	Ht (Min)	3	Ht (Min)	Target P&A (s/p)	Min P&A (s/p)	Min P (s/p)	
01	Cw	1.5	Hw	2.0					Pl	1.5	Yc	1.5	Ss ⁷	3.0	900	500	400	6
02	Pl	1.25							Cw	1.2	Yc	1.2	Hw ⁵³	1.25	400	200	200	3
03	Cw	1.2	Hw	1.25	Pl	1.25	Yc	1.2	Ss ^{7,53}	2.0					800	400	400	6
04	Hw	1.75	Ss	4.0					Cw	2.0	Yc	2.0			900	500	400	6
05	Cw	2.0	Ss	4.0					Hw ²	1.75	Yc	2.0			900	500	400	3
06	Cw	2.0	Ss	4.0					Hw ²	1.75	Yc	2.0			900	500	400	3
07	Cw	2.0	Ss	4.0					Hw ²	1.75	Yc	2.0			900	500	400	3
08	Cw	2.0	Ss	4.0					Hw	1.75					900	500	400	3
09	Ss ¹	4.0							Cw ¹	2.0	Hw ¹	1.75			900	500	400	3
11	Cw ¹	1.2	Hw ¹	1.25	Yc ¹	1.2			Pl ¹	1.25					900	500	400	3
12	Cw ¹	1.2	Pl ¹	1.25	Yc ¹	1.2									400	200	200	3
13	Cw ¹	1.2	Yc ¹	1.2					Hw ¹	1.25	Ss ¹	2.0	Pl ⁵³	1.25	800	400	400	3

- 1- elevated microsites are preferred
- 2- suitable on thick forest floors
- 7- restricted to nutrient-medium sites
- 53- minor component

8.4 Stocking Standards for Areas Subject to Retention or Intermediate Harvesting

For the purpose of FPPR section 16(4), when harvesting timber in all FDUs for the reasons referred to in FPPR section 44(3)(h) and (i), the stocking standards indicated in Table 8.4 will apply.



Table 8.4 – Uneven Aged Stocking Standards

Target from even aged standards	Layer	Target pa**	MIN* pa**	MIN* p***
Stems/ha		Well-spaced/ ha		
1200	1	600	300	250
	2	800	400	300
	3	1000	500	400
	4	1200	700	600
1000	1	400	200	200
	2	600	300	250
	3	800	400	300
	4	1000	500	400
900	1	400	200	200
	2	500	300	250
	3	700	400	300
	4	900	500	400
800	1	300	150	150
	2	400	200	200
	3	600	300	300
	4	800	400	400
600	1	300	150	150
	2	400	200	200
	3	500	300	300
	4	600	400	400
400	1	200	100	100
	2	300	125	125
	3	300	150	150
	4	400	200	200

*MIN - minimum

** pa - preferred and acceptable species

*** p - preferred species

Stand Layer Definition

Layer 1: Mature trees \geq 12.5 cm dbh

Layer 2: Pole trees 7.5 cm to 12.4 cm dbh

Layer 3: Sapling trees \geq 1.3 m height to 7.4 cm dbh

Layer 4: Regeneration trees < 1.3 m height



For the purpose of FPPR section 16(4), when harvesting timber in all FDUs for the reasons referred to in FPPR section 44(3)(h) and (i), the stocking standards indicated in Table 8.4 will apply:

- a) where a partial cutting silvicultural system is prescribed for the purpose of managing green-up, visual, cultural heritage resource, hydrological or terrain stability values and;
- b) where the site plan prescribing forester determines that the application of the partial cutting silvicultural system will not unduly reduce the supply of timber from British Columbia's forests.

8.5 Inter-Tree Distance

For the purposes of FPPR section 16(3), the minimum inter-tree distance will be 2 metres. The minimum inter-tree distance may be reduced to 1.5 metres in the following situation or circumstances:

- within 20 metres of the road centerline,
- within a riparian management area,
- to avoid a talus site,
- hygric or wet site,
- very nutrient poor site where microsite planting is required or
- areas with significant tree retention as defined as more than 45 trees retained per ha.



8.6 Cedar Commitment

Cedar Commitment - Old Growth

Table 8.5 - Cable and Ground-Based Harvesting

Cw or Yc is a Primary Species^{1,2}	
Pre Harvest Composition³	MSSc⁴
20 to 29%	100
30 to 39%	150
40 to 49%	175
50 to 59%	200
60 to 69%	250
70 to 79%	300
80 to 89%	320
90 to 100%	375
Cw or Yc is not a Primary Species¹	
Pre Harvest Composition³	MSSc⁴
20 to 29%	0
30 to 39%	100
40 to 49%	125
50 to 59%	150
60 to 69%	250
70 to 79%	300
80 to 89%	320
90 to 100%	375

¹According to the *Field Guide for Site Identification and Interpretation for the Vancouver Forest Region*

²Includes Cw as a primary species on CWH wh1 01 sites with forest floors over 20cm, and CWH wh1 01s sites

³Composition is based on block net cruise volume and is the total of Cw and Yc

⁴Minimum stocking standard for cedars at free growing



Table 8.6 - Helicopter Harvesting

Cw or Yc is a Primary Species^{1,2}	
Pre Harvest Composition³	MSSc⁴
20 to 29%	0
30 to 39%	150
40 to 49%	175
50 to 59%	200
60 to 69%	250
70 to 79%	300
80 to 89%	320
90 to 100%	375
Cw or Yc is not a Primary Species¹	
Pre Harvest Composition³	MSSc⁴
20 to 29%	0
30 to 39%	0
40 to 49%	125
50 to 59%	150
60 to 69%	250
70 to 79%	300
80 to 89%	320
90 to 100%	375

¹According to the *Field Guide for Site Identification and Interpretation for the Vancouver Forest Region*

²Includes Cw as a primary species on CWH wh1 01 sites with forest floors over 20cm, and CWH wh1 01s sites

³Composition is based on block net cruise volume and is the total of Cw and Yc

⁴Minimum stocking standard for cedars at free growing



Cedar Commitment – Second Growth

Table 8.7 – Second Growth Harvesting

BEC Unit		
CWHwh1	Site Series	MSSc for Cw/ha
	01	200
	01s	25
	02	320
	04	320
	10	300
	12	300
CWHwh2	Site Series	MSSc for Cw/ha
	02	320
	04	25
	05	200
	06	400
CWHvh2	Site Series	MSSc for Cw/ha
	01	320
	03	320
	11	320



9.0 Signatures

9.1 Signature of Preparing Forester:

Name: Bryan Fraser, RPF
Operations Forester

“I certify that the work described herein fulfills the standards acceptable of a Registered Professional Forester and that I did personally supervise the work.”

Date: January 26, 2007

9.2 Signature of Person Required to Prepare the Plan (FRPA Section 5(3)):

Name: John Pichugin, RPF
Licensee Representative

“I certify that I have reviewed this document and, while I did not personally supervise the work described, I have determined that this work has been done to the standards expected of a member of the Association of British Columbia Forest Professionals.”

Date: January 26, 2007