



**CITY OF  
PRINCE GEORGE**

**City of Prince George  
Probationary Community Forest Agreement**

**Environmental Division**

**FOREST STEWARDSHIP PLAN  
2006 – 2011**

**FSP Submission: October 6, 2006**

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## 1 INTERPRETATION

1.1 In This Forest Stewardship Plan:

“**Agreement**” means the Probationary Community Forest Agreement Tenure listed in 3.1.

“**CPG**” means the City of Prince George, the Agreement Holder.

“**Commencement of Term**” means the date the Term of this FSP begins, as specified in Paragraph 2.3.

“**FDU**” means a Forest Development Unit as defined in the Forest Planning and Practices Regulation effective January 31, 2004, B.C. Reg. 14/2004 and consolidated to March 18, 2005, including BC Reg 102/2005 Amendments

“**FPPR**” means the Forest Planning and Practices Regulation, effective January 31, 2004 B.C. Reg. 14/2004 and consolidated to March 18, 2005, including BC Reg 102/2005 Amendments

“**FRPA**” means the *Forest and Range Practices Act*, RSBC 2002, c. 69, as amended from time to time.

“**FSP**” means this Forest Stewardship Plan.

“**GAR**” means the *Government Actions Regulations*, effective December 13, 2004, BC Reg. 582/2004.

“**Misc. Users**” means the various leaseholders or land user groups in the form of associations, societies, agencies or companies with various leases and miscellaneous land user agreements held with the City of Prince George.

“**Fuel Treatment Prescription**” means the components of a Site Plan that specifically pertain to the harvesting and retention of merchantable and non merchantable stems within a stand for the purposes of reducing the fire hazard rating of that stand or polygons within that stand.

“**Clearcut with Reserves**”, “**Patch Cut**”, “**Retention (Variable Retention)**” and “**Group Selection**” **Silviculture Systems** are defined, for the purposes of this FSP, as per the *Silvicultural System Handbook for British Columbia* (Ministry of Forests – Forest Practices Branch March 25, 2003)

1.2 In this FSP, the singular includes the plural and the plural includes the singular, unless the context indicates otherwise.

## 2 DATE OF SUBMISSION, COMMENCEMENT OF TERM & TERM OF THE FSP

2.1 The date of submission of this Forest Stewardship Plan (this “FSP”) is October 6, 2006.

2.2 The Term of this FSP will be 5 years from the Commencement of Term.

2.3 The Commencement of Term for this FSP is the date of Ministry of Forest and Range approval.

### 3 APPLICATION OF THE FOREST STEWARDSHIP PLAN

- 3.1 This FSP applies to the Agreement Holder, the City of Prince George, for the Probationary Community Forest Agreement #PCFA K2B.

### 4 IDENTIFYING FOREST DEVELOPMENT UNITS

- 4.1 There are no Forest Development Units in effect on the Date of Submission of this FSP.  
4.2 The following table lists the new Forest Development Units in this FSP:

**Table 1 Forest Development Units**

FDU Name	Agreement Holder	Agreement
Crown FDU	City of Prince George	Probationary Community Forest Agreement #PCFA K2B
Crown Misc. Users FDU		

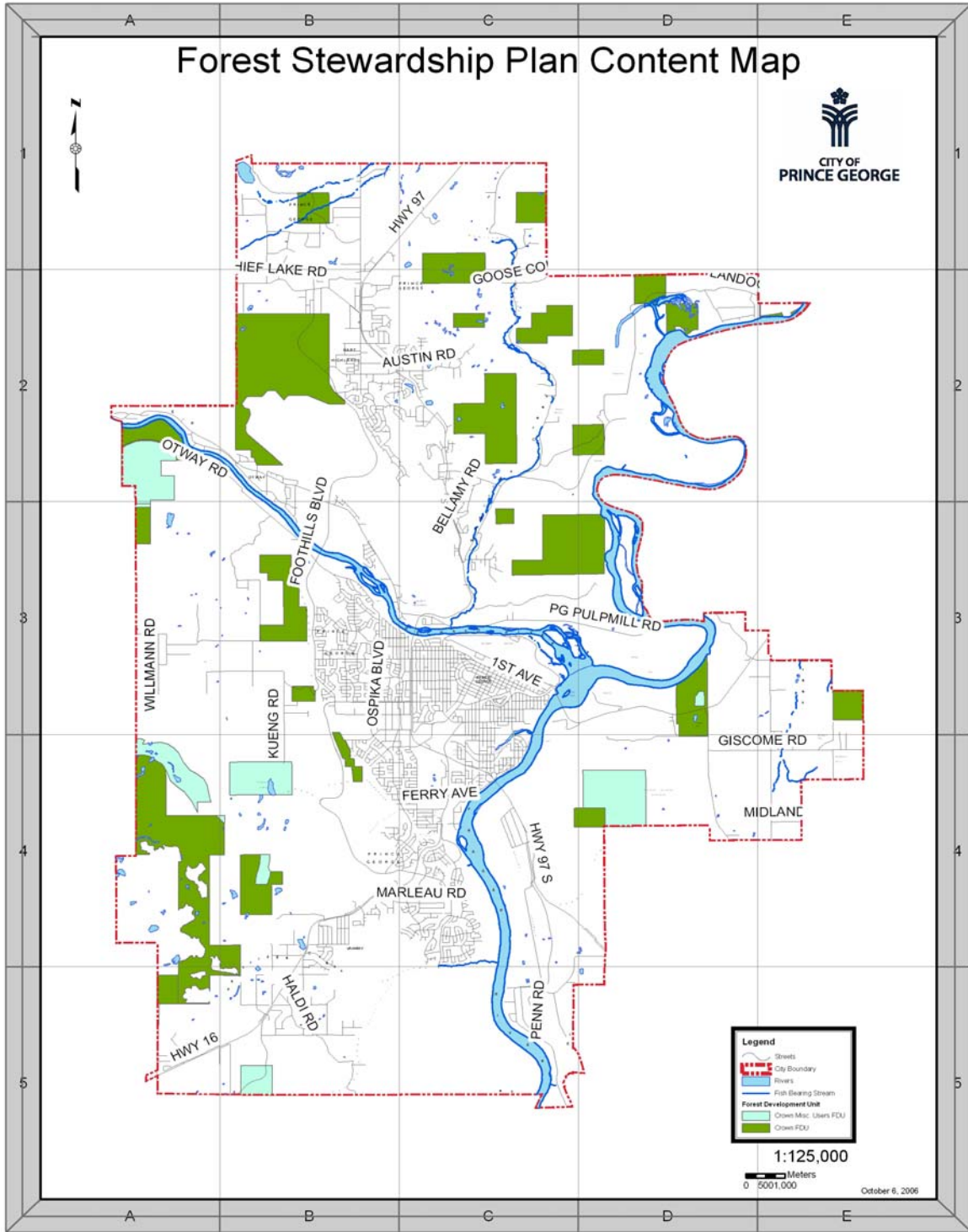
Figure 1 (page 4) identifies the boundaries of all Forest Development Units (FDUs) in this FSP.

Prior to any activities being conducted on the Crown Misc. Users FDU, it is the intent of the Agreement Holder to coordinate a working relationship with the respective miscellaneous leaseholders or land users with regards to any and all planning and development activities for that land. The miscellaneous users include the Prince George Airport Authority, Cranbrook Hill Greenway Society, Caledonia Nordic Ski Club, and any other group, not listed here, that signs onto a similar lease or tenure with the CPG.

Any lands with legal encumbrances which preclude harvesting by the agreement holder under their agreement, that fall within the FDU area, are not to be considered part of the FDU area and may or may not be shown on the FSP maps.

- 4.3 The maps included in this FSP show the location of the following items that were in effect on the Date of Submission:
- (a) Scenic areas including Visual Quality Objectives (FPPR Sec.14 (3) e);
  - (b) Lake classes (FPPR Sec. 14 (3) f);
  - (c) Stream classes based on detailed riparian assessments (fish bearing and non fish bearing);
  - (d) Wetland classes.

Figure 1



## 5 RESULTS AND STRATEGIES

### 5.1 Provincial Non-Spatial Old Growth Objective

“old forest” has the same meaning as in the **Provincial Non-Spatial Old Growth Objective** for the Province of British Columbia.

5.1.1 In relation to the Provincial Non-Spatial Old Growth Objective established under section 4 of the Forest Practices Code of BC Act, no result/strategy will apply to the FDU areas for old forest retention requirements as per the FPPR Sec 12 (7) where the holder deems the circumstances and conditions of this objective not practicable within the FDU areas.

### 5.2 Objectives Set by Government for Soils

5.2.1 In relation to the objective set by government for soils set out in section 5 of the FPPR, the agreement holder adopts as a result/strategy, section 35 and 36 of the FPPR and consistent with 12.2 of the FPPR as those sections were on the date this FSP was submitted for approval.

### 5.3 Objectives Set By Government for Wildlife

5.3.1 In respect of the notice entitled “Indicators of the Amount, Distribution, and Attributes of Wildlife Habitat Required for the Survival of Species at Risk in the Prince George Forest District”, issued in December 2004 in accordance with section 7 of the FPPR, no result/strategy will be applied to the FDU areas as the amount, distribution and attributes of wildlife habitat for Northern Caribou and Mountain Caribou are not present within the applicable FDU areas.

### 5.4 Objectives Set By Government For Water, Fish, Wildlife, And Biodiversity Within Riparian Areas

“Riparian Management Zone” refers to the area outside of the Riparian Reserve Zone, to which a management strategy will be applied in the area averaged over the length of each stream reach falling within or forming a part of the block boundary.

5.4.1 In relation to the objective set by government for water, fish, wildlife, and biodiversity within riparian areas set out in section 8 of the FPPR, the results/strategies that apply to the areas of primary forest activity in each FDU are, subject to paragraphs 5.4.2 and 5.4.3, the requirements of section 47 to 51 and 53 of the FPPR as those sections were on the Date of Submission.

5.4.2 For the purposes of section 12.3 (6) of the FPPR and to meet the requirements of 12 (3) of the FPPR, the results and strategies for retention of trees in riparian management zones:

(a) identified in Table 2

(b) For areas within 5 m of an S4, S5 and S6 stream, to retain brush species, advanced regeneration, non-merchantable conifers, and non-commercial stems, except where the agreement holder is

(i) establishing stream crossings,

- (ii) carrying out hand falling,
  - (iii) carrying out cable or aerial yarding across or adjacent to the stream
  - (iv) removing trees to address a safety concern, or
  - (v) carrying out vegetation management treatments to meet free growing requirements, and
- (c) For areas within 10 m of an S4 stream, to retain over the length of each stream reach, an average of not less than 10 overstory trees on either side of the stream for each 100 m of stream length, unless the trees to be retained are infested or diseased by a forest health agent that would spread if the trees were not removed,
- (i) within 5 m of either side of a skid crossing, or within the right-of-way of a stream crossing
  - (ii) the stream reach is located in a harvest unit that is being harvested by a cable or an aerial yarding system,
  - (iii) there are an insufficient number of overstory stems found within 10 m of the stream in which case the existing preharvest overstory trees within 10m of the stream will be retained, or
  - (iv) the trees are removed because they are danger trees or the trees have roots that are embedded in the stream bank

**Table 2. Riparian Management Zone Strategies**

Riparian Class	Riparian Management Zone Width (m)	Riparian Management Zone Strategy
Streams – S1-A	100	Retain 100% if the RMZ area within 50m
Streams – S1-B	20	Retain 100% of the RMZ area
Streams – S2, S3	20	Retain $\geq$ 25% of RMZ area
Streams – S4	30	Follow Sec. 5.4.2 (c) of this FSP
Streams – S5, S6	30 (S5) and 20(S6)	No Riparian Management Zone Strategy Follow Sec 5.4.2 (b) of this FSP
Wetlands - W1, W5	40	Retain $\geq$ 25% of RMZ area
Wetlands – W3	30	No Riparian Management Zone Strategy
Lakes – L1 Class C	L1 C – 70	Retain $\geq$ 25% of the RMZ area with 50m
Lakes – L3	30	No Riparian Management Zone Strategy

## 5.5 Objectives Set By Government for Wildlife and Biodiversity – landscape level

- 5.5.1 In relation to the objective set by government for Wildlife and Biodiversity at the landscape level set out in section 9 of the FPPR, the agreement holder adopts as a result/strategy, section 64 and 65 of the FPPR and consistent with 12.4 of the FPPR as those sections were on the date this FSP was submitted for approval.

## 5.6 Objectives Set By Government for Wildlife and Biodiversity – stand level

- 5.6.1 For the purposes of section 12.5 (1) of the FPPR, in relation to the objective set by government for wildlife and biodiversity at the stand level set out in section 9.1 of the FPPR, the results/strategies that apply to areas of the primary forest activity in each FDU are:

- (a) if the agreement holder completes harvesting in one or more cutblocks, not including (c), during the five year period beginning on the FSP commencement date, the holder will ensure that, at the end of that five year period the total area covered by wildlife tree retention areas that relate to the cutblocks is a minimum of 7% of the cutblocks, and;
- (b) if the agreement holder harvests timber in a cutblock, not including (c), that is greater than 15 hectares in size, the holder must ensure that, at the completion of harvesting, the total amount of wildlife tree retention areas that relates to the cutblock is a minimum of 3.5% of the cutblock, and;
- (c) if the agreement holder carries out a retention, group selection or patch cut silviculture system in a cut block, there will no minimum requirement of wildlife tree retention areas that relate to that cutblock.

## **5.7 Objectives Set by Government for Visual Quality Objectives and Objectives in respect of Scenic Areas**

5.2.2 In relation to the objective set by government for Visual Quality set out in the GAR section 7 (2) for scenic areas effective December 8, 2005 for which there is an established visual quality objective effective December 22, 2005, the results/strategy for the FDU areas are that cutblocks and roads will be designed to meet the established visual quality objective and the applicable category of visually altered forest landscape, consistent with section 1.1 of the FPPR, as those sections were on the date this FSP was submitted for approval.

## **5.8 Objectives Set By Government for Cultural Heritage Resources**

“Cultural heritage evaluation” is similar to an archaeological impact assessment or overview evaluation and includes both archaeological and cultural heritage values.

- 5.8.1 In relation to the objective set by government for cultural heritage resources set out in the section 10 of the FPPR, the results/strategies that apply to the FDU areas are:
- (a) Before a holder harvests a cutblock or constructs a road, the holder will ensure that a cultural heritage evaluation is conducted within areas:
    - i. that contain previously identified cultural heritage resources;
    - ii. that are identified as having “high potential” within an established archaeological predictive map, or;
    - iii. for which site-specific information regarding cultural heritage resources is brought forward or made available to the holder of this FSP prior to harvesting, road construction, or mechanical site preparation by an aboriginal people or government employee.
  - (b) If a previously unidentified cultural heritage resource feature is encountered during harvesting, road construction, or mechanical site preparation, operations will cease to the extent necessary to protect the feature, until a cultural heritage evaluation can be carried out.
  - (c) All harvesting, road construction, and mechanical site preparation activities will be consistent with the recommendations given in a cultural heritage evaluation referred to in subparagraph (a) and (b), and

- (d) If the agreement holder receives site specific information concerning a cultural heritage resource that is of continuing importance to an aboriginal people, the holder, before applying for a cutting permit or road permit respecting the site, will:
  - i. record the location of the cultural heritage resource;
  - ii. evaluate the direct impact of the planned development on the cultural heritage resource;
  - iii. if necessary, alter planned development in order to conserve, or if necessary protect, the cultural heritage resource at that location, considering:
    - (A) the relative value or importance of the cultural heritage resource to a traditional use by an aboriginal people;
    - (B) the relative abundance or scarcity of the cultural heritage resource;
    - (C) the historical extent of the traditional use of the cultural heritage resource, and;
    - (D) the impact on the agreement holders government granted timber harvesting rights in conserving or protecting the cultural heritage resource, and
  - iv. communicate the results of Sec 5.8.1 d) (i) to (iii) back to the individual or group that provided the information.

## 6 MEASURES

### 6.1 Measures for Preventing the Introduction or Spread of Invasive Plants

- 6.1.1 In relation to the measures referred to in section 17 of the FPPR for preventing the introduction or spread of invasive plants, the measures for the FDU areas are
  - (a) on an annual basis, the area of known sites of invasive plants, and sites considered as high and extremely high risk to invasive plant establishment through forest practices will be identified using information gathered from city pest management staff, district Range staff, regional experts, or other agencies;
  - (b) within the sites in subparagraph (a), areas disturbed through road/landing construction that have not been or are not to be reforested, within harvested cutblocks and road right of ways, will be re vegetated within two years of completion of the harvest and road construction, and;
  - (c) the seed mix used in all grass seeding activities shall meet or exceed Canada Common #1 Specifications as defined by the Canada Seeds Act.

### 6.2 Measures to Mitigate the Loss of Natural Range Barriers

- 6.2.1 In relation to the measures referred to in section 18 of the FPPR to mitigate the effect of removing or rendering ineffective natural range barriers, no range tenures have been identified in or adjacent to the FDU's within this FSP, and therefore no measures are specified.

## 7 STOCKING REQUIREMENTS

### 7.1 General Standards

Where the holder of this FSP is required under the Act and regulations to establish a free growing stand in respect of timber harvesting governed by this FSP, the holder will on all cut blocks, subject to Paragraph 7.2 do so in accordance with the regeneration / free growing stocking standards in Appendix A and B.

For the purpose of providing clarity around the silviculture systems referenced in this FSP and in relation to the even aged and multi layered stocking standards, the following will apply:

- 7.1.1 Stocking Standards for Clearcut with Reserves and Patch Cut silviculture systems will, for each opening created during a single entry period in a cutblock, meet the applicable regeneration/free growing stocking standards (Appendix A).
- 7.1.2 Stocking Standards for Group Selection and Retention (Variable Retention) silviculture systems implemented within a Fuel Treatment Prescription site plan, the block will meet the applicable regeneration/free growing multi layered stocking standards (Appendix B).

### 7.2 Variations from General Standards

Despite 7.1, a holder of this FSP may apply the following stocking standards in the following circumstances:

- 7.2.1 Brush within the 5-meter machine free zone of all applicable streams is not considered deleterious competition when conducting a free growing survey.

## 8 SIGNATURES of Persons required to prepare plan

Preparing Forester:	
	<b>JANINE LARMAND, RPF</b> Forestry Supervisor Canadian Forest Products Ltd.

Licensee Signature:	
	<b>Mark Fercho</b> Environment Manager City of Prince George

Authorized Licensee Signature:	
	<b>Don Schaffer</b> City Clerk City of Prince George - Signing Authority

## APPENDIX A: STOCKING STANDARDS

Prince George Probationary Community Forest Agreement - FSP Stocking Standards																					
Zone	Var	Site Series	MITD (m)	Stocking Standards																	
				Company ID	Max Regen Delay (yrs)	Target (sph)	Min (sph)	Sp1	Ht1 (m)	Sp2	Ht2 (m)	Sp3	Ht3 (m)	Sp4	Ht4 (m)	Sp5	Ht5 (m)	Sp6	Ht6 (m)	Sp7	Ht7 (m)
SBS	mh	01/04/05/0607/08	1.0	SBS 1	7	500	200	PLI	2.0	SX	1.0	FDI	1.4	BL	1.0	Ep	2.0	At	2.0	Act	2.0
SBS	dw3	01/04/08																			
SBS	mk1	01/04/05/07																			
SBS	dw3	03/05/06/07	1.0	SBS 2	7	500	200	PLI	2.0	SX	1.0	BL	1.0	SB	1.0	Ep	2.0	At	2.0	Act	2.0
SBS	mk1	02/03/06/08																			
SBS	mh	02/03	1.0	SBS 3	7	400	100	PLI	1.4	FDI	1.0	SX	0.8	BL	0.8	Ep	1.4	At	1.4	Act	1.4
SBS	dw3	02																			
SBS	dw3	09	1.0	SBS 4	7	400	100	PLI	1.4	SX	0.8	BL	0.8	At	1.4	Act	1.4				
SBS	mk1	09																			
SBS	mh	09																			
SBS	dw3	10	1.0	SBS 5	7	400	100	PLI	1.4	SX	0.8	SB	0.8	Lt	0.8	At	1.4	Act	1.4		

## APPENDIX B: MULTI LAYERED STOCKING STANDARDS

### Target of 500

Layer**	Stocking***	
	Target	MIN
	(well-spaced/ha)	
Total All Layers	500	200

### Target of 400

Layer**	Stocking***	
	Target	MIN
	(well-spaced/ha)	
Total All Layers	400	100

#### \*\* Stand Layer Definition

Layer 1	Mature	trees >= 12.5 cm dbh
Layer 2	Pole	trees 7.5 cm to 12.4 cm dbh
Layer 3	Sapling	trees >= 1.3 m height to 7.4 cm dbh
Layer 4	Regeneration	trees < 1.3 m height

**Note:** There is no commitment to specific layer stocking as this may vary between stand type and the specific fire hazard reduction Fuel Treatment Prescription. A commitment to specific layer targets will be developed as part of the site plan.

## APPENDIX C: FOREST STEWARDSHIP PLAN MAPS

### Summary of FSP Maps

Map Number	Map Reference
1	FSP Content Maps – FDU'S, Scenic Areas and Visual Quality Objectives, Lake Classes, Stream Classes (fish bearing and non fish bearing streams), Wetland Classes.