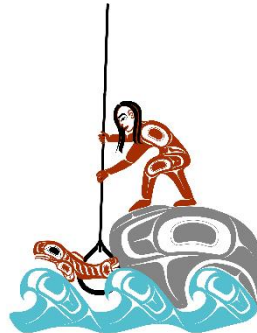


**Canadian Forest Products Ltd.  
Houston Operation.  
Kyah Development Corporation  
Dungate Community Forest Limited Partnership**

**Bulkley T.S.A., Morice T.S.A.**



**FOREST STEWARDSHIP PLAN  
2024-2029**

FSP # 645 – FSP replacement

Approved:  
Expires:

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## 1 INTERPRETATION

### 1.1 Definitions

The following definitions apply to this **FSP** and its results, strategies, measures and stocking standards.

**“Agreements”** means the replaceable and non-replaceable Forest Licenses listed in Table 1.0

**“Agreement holders”** means the companies and organizations listed in Table 1.0

**“Applicable Agreement holder”** means the companies and organizations whose agreements and harvesting rights apply to the **FDU** or portion of the **FDU** as identified in Table 3.0

**“Basal Area Equivalency”** means in the case of:

Individual wildlife tree retention, calculated by comparing pre-harvest basal area to post harvest basal area in dispersed wildlife tree retention areas. The area allocated to retention is the proportional amount of area in post-harvest basal areas (e.g., 10% of the pre-harvest basal area left dispersed over a whole cutblock would be equal to 10% retention).

**“FPC”** means the Forest Practices Code of British Columbia Act RSBC 1996, c 159.

**“FDU”** means a Forest Development Unit proposed by **Agreement holders**. **“FPPR”** means the *Forest Planning and Practices Regulation* BC Reg. 14/2004

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

**“FSP”** means this Forest Stewardship Plan BC Reg. 582/2004

**“GAR”** means the *Government Actions Regulation*.

**“LRMP”** means Land and Resource Management Plan.

**“Minister”** means the person who has, on behalf of government, approved this **FSP**, or such other person as that person may delegate.

**“Minor Salvage Operation”** means any harvesting of timber that is dead, infested with pests or otherwise damaged or that is required to be harvested to facilitate the removal of the dead, infested or damaged timber that results in a contiguous area 1.0 ha. in size or less of net area to be reforested.

**“Qualified Registered Professional (QRP)”** means, with respect to an activity for which this forest stewardship plan requires a qualified registered professional, a person who has appropriate education and experience to carry out the activity, and is a member of, or licensed by, a regulatory body in British Columbia that has the legislated authority to regulate its members performing the activity.

**“Term”** means the period specified in Paragraph 2.2.

**“SBS”** means the Sub-Boreal Spruce, its subzones and variants.

**“ESSF”** means Engelmann Spruce Subalpine Fir, its subzones and variants. **“ICH”** means Interior Cedar Hemlock, its subzones and variants.

**“Wildfire Risk Reduction Area”** refers to work conducted under Urban Wildland Interface fuel management, wildfire risk reduction work or community wildfire protection plans as per Appendix D.

**“Wildlife Tree Patch”** means an identified leave area that is greater than 0.25 ha.

**“Wildlife Trees”** means identified leave area or individual trees less than or equal to 0.25 ha.

**1.2 Interpretations**

1. In this **FSP**, the singular includes the plural and the plural includes the singular, unless the context indicates otherwise.
2. Unless otherwise expressly indicated, or indicated by context, terms used in this **FSP** have the definition given them, as of the date of submission, in **FRPA** and the Forest Act and the regulations under them.

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

**2.1 Date of Submission**

The date of submission of this **FSP** is.

**2.2 Term**

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

**2.3 Commencement of Term**

The Commencement of **Term** for this **FSP** is the date the **Minister** approves this **FSP**.

**Amendment History**

Amendment requiring approval Y/N	Amend. No.	Date submitted or filed.	Date approved	Remarks
N	1	February 14, 2020	February 14, 2020	Declaration
Y	2			FSP replacement

**3 REVIEW AND COMMENT PACKAGE**

The review and comment package that accompanies this **FSP** under a separate cover contains:

- A copy of the notice published under section 20 **FPPR**;
- A copy of each written comment received under section 21 **FPPR**;
- A description of the efforts made to comply with the requirements of 21 (1) (c) **FPPR**, and;
- A description of any changes made to the plan as a result of comments received.

The **Applicable agreement holders** will, in addition to the requirements of **FPPR** section 20 and 21, commit to making harvesting and block plans publicly available on an annual basis, measured from April 1<sup>st</sup> to March 31<sup>st</sup>, during the term of this **FSP**. Comments from and replies to, first nations, stakeholders and members of the public will be recorded in a tracking system.

## 4 APPLICATION OF THE FOREST STEWARDSHIP PLAN

### 4.1 Agreement Holders and Agreements

Subject to section 2.2 this FSP applies to the **Agreement holders** and **Agreements** indicated in Table 1:

**Table 1**

Agreement holder	Agreements	Timber Supply Area	Forest District
Canadian Forest Products Ltd. Houston Division	FL A16828,	Morice	Nadina
Canadian Forest Products Ltd. Houston Division	FL A91846,	Morice	Nadina
Kyah Development Corporation	FL A70026	Bulkley	Skeena Stikine
Kyah Development Corporation	FL A90555	Morice	Nadina
Kyah Development Corporation	FL A90554	Bulkley	Skeena Stikine
Dungate Community Forest Limited Partnership	K2L	Morice	Nadina

## 5 IDENTIFYING FOREST DEVELOPMENT UNITS

### 5.1 Forest Development Units proposed on Date of Submission

Bulkley and Morice

### 5.2 New Forest Development Units

The following table lists the new FDU's in this FSP and where the **Applicable Agreement holders** harvesting rights apply. Results, strategies, measures, and stocking standards, for one or more FDU's apply to the **Applicable agreement holder(s)** identified in Table 3.

**Table 3**

FDU Name	Applicable Agreement Holder	Agreement Type & Number	FSP Map/FDU	Harvesting Rights
<b>Bulkley</b>	Kyah Development Corporation	FL A70026	Bulkley FDU	Bulkley T.S.A.
<b>Bulkley</b>	Kyah Development Corporation	FL A90554	FSP Admin maps	As per schedule A
<b>Morice</b>	Canadian Forest Products Ltd.	FL A16828	Morice FDU	Morice T.S.A.
<b>Morice</b>	Canadian Forest Products Ltd.	FL A91846	Morice FDU	Morice T.S.A.
<b>Morice</b>	Kyah Development Corporation	FL A90555	Morice FSP Admin maps.	As per schedule A
<b>Morice</b>	Dungate Community Forest Limited Partnership	K2L	Morice FSP Admin maps	Dungate Community Forest

### 5.3 Items Identified in FDU's

The maps included in this **FSP** show the location of the following items that were in effect 4 months before the date this **FSP** was submitted for approval. There are 4 different themes for maps; administrative, wildlife, biodiversity and other (visual/watersheds). For each theme there are 8 maps. Maps 1 and 3 cover the Bulkley FDU with a bit of overlap into the Morice FDU. The Morice FDU is represented on all 8 maps. It is understood that ongoing updates occur and these maps are current based on submission date only.

Description of items identified at the time of submission of this FSP.

Type	Species/Item	FDU/FSP maps	Notes (FSP section/order)
Section 7 notice	Mountain Caribou (Takla)	Morice/wildlife maps 2 & 4	Section 6.3.2.1
Section 7 notice	Northern caribou (Whitesail)	Morice/wildlife maps 7 & 8	Section 6.3.3
Wildlife Habitat Areas	Bull Trout	Data sensitive not mapped.	Order 6-283
Wildlife Habitat Areas	Bull Trout	Data sensitive not mapped	Order 6-284
Wildlife Habitat Areas	Bull Trout	Data sensitive not mapped	Order 6-285
Wildlife Habitat Areas	Bull Trout	Data sensitive not mapped	Order 6-286
Wildlife Habitat Areas	Northern Caribou – Telkwa herd	Morice/wildlife maps 5 & 6	Order 6-333
Ungulate Winter Range	Mountain Goat	Morice/wildlife maps	Order 6-003
Ungulate Winter Range	Mountain Goat	Bulkley FDU	Order 6-007 and Section 6.2.1
Ungulate Winter Range	Takla Caribou	Wildlife maps	Order 6-013
s. 8.1 Fisheries sensitive watersheds	NA	Bulkley/Other map theme	Section 6.1.12 as per schedule 2 of FPPR
s. 8.2 Community watersheds	NA	Bulkley/other map	Section 6.1.10.
s. 9.2 Visual quality	Scenic areas, VQO's	Both FDU's/other map theme.	Sections 6.3.6 and 6.3.7
Bulkley land use	Core ecosystem	Bulkley FDU/ Biodiversity map	Section 6.1.1
Bulkley land use	Landscape Corridors	Bulkley FDU/ Biodiversity map	Section 6.1.2
Bulkley land use	Moose	Bulkley FDU/wildlife maps	Section 6.1.6.1
Bulkley land use	Deer	Bulkley FDU/wildlife maps	Section 6.1.6.2
Bulkley land use	Grizzly Bear	Bulkley FDU/wildlife maps	Section 6.1.6.3
Bulkley land use	Enhance timber areas	Bulkley FDU/ biodiversity maps	Section 6.1.7
Bulkley land use	Recreation	Bulkley FDU/other map theme	Section 6.1.8
Bulkley land use	Resource management – Big Onion mtn, Old Cronin, Reisetter, Upper Corya, Agriculture/ Wildlife	Bulkley FDU/ biodiversity maps	Section 6.1.9



Bulkley Fish Habitat	Candidate Wilderness lakes	Bulkley FDU/other map theme	Section 6.1.11
Morice Land Use	General Forest Area, High Biodiversity Emphasis and Area Specific Management	Morice FDU/ biodiversity maps	Section 6.3.1
Morice Land Use	Old Growth Management Areas	Morice FDU/ biodiversity maps	Section 6.3.1
Morice Land Use	No Timber Harvest Areas	Morice FDU/ biodiversity maps	Section 6.3.1
	Established recreation sites	Both FDU's/Other map theme	NA
	Cutting Permits and Road Permits	Both FDU's/Admin maps	NA

## 6 RESULTS AND STRATEGIES BY FDU

### 6.1 Bulkley Land Use Objectives

Results/Strategies for Objectives Set by Government for objectives established or continued under section 3 to 5 of the **FPC** or established under section 93.4 of the Land Act four months prior to this **FSP** being submitted for approval.

#### 6.1.1 Objective 1.2 Ecosystem Representation; Core Ecosystems.

##### Objective

November 6, 2006 Order Establishing Land Use Objectives within the Bulkley T.S.A. Objective 1.2 Ecosystem Representation; Core Ecosystems.

##### Results/Strategies

The following definitions apply to the following results/strategies for the above order and objective:

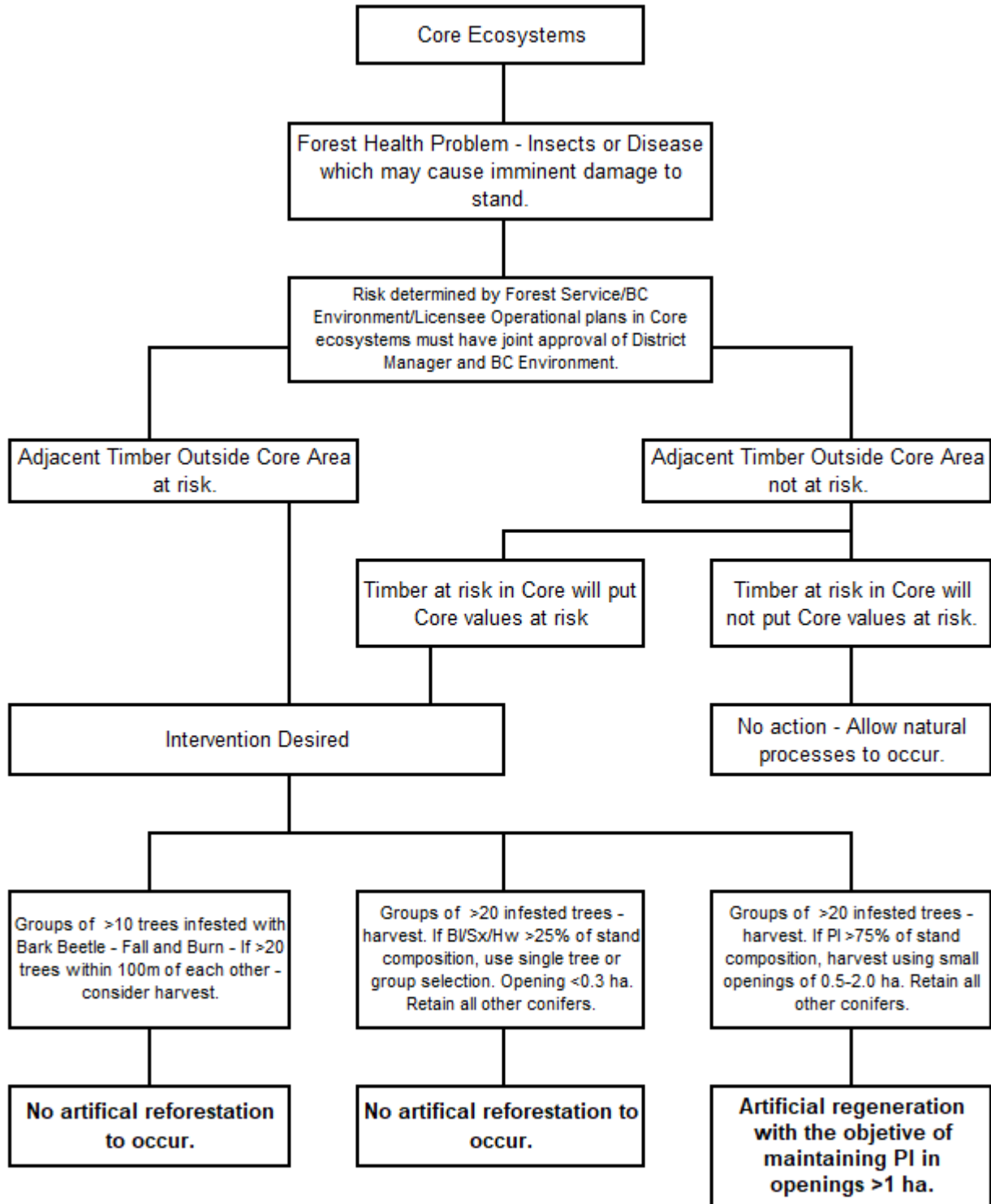
**“Rare and endangered plant communities”**: means indigenous plant species or plant communities, that have been red listed by the British Columbia Ministry of Environment Conservation Data Centre, that are extirpated, endangered or threatened in British Columbia.

The following results/strategies relate to the above order and objective in portions of the Bulkley **FDU** that are within core ecosystems as identified on the FSP biodiversity maps.

Harvesting or permanent access construction conducted by the **Applicable Agreement holder** will not occur within core ecosystems unless forest insects, pathogens or other damaging agents threaten to spread into forested areas outside the core ecosystem subject to the following:

1. Where harvesting does occur, the decision matrix will be followed as per Figure 1.
2. Permanent access structures will not be constructed within core ecosystems except where required to avoid alienating operable timber outside the core ecosystem and no other practicable alternative exists to access the timber.
3. Despite 1 above, new harvesting or road construction, will not cause there to be more than 4% of the forested area within any given Core Ecosystem to be less than 40 years old.

**Figure 1:** Decision Matrix for Harvesting in Core Ecosystems



Silviculture – Commitment to stocking. Plant only to maintain ecological integrity of the stand.

Silviculture prescriptions required only for openings >1.0 ha.

Reforestation density targets will be 100-110% of number of natural merchantable well-spaced stems on the site prior to harvest.

### 6.1.2 Objective 1.3 Connectivity: Landscape Corridors

#### Objectives

November 6, 2006 Order Establishing Land Use Objectives within the Bulkley T.S.A. Objective 1.3 Connectivity: Landscape Corridors

#### Results/Strategies

The following results/strategies relate to the above order and objective in portions of the Bulkley **FDU** that are within the boundary of the Landscape Corridors as identified on the FSP biodiversity maps.

Harvesting conducted by the **Applicable Agreement holder** in Landscape Corridors will:

1. Maintain at least 70% of the crown forested area within each Landscape Corridors in a state greater than 80 years old.
2. Have individual opening sizes that are a maximum of 3.0 hectares, or
3. If the Landscape Corridor is infested with insects, only the area necessary to remove the infested or damaged timber, providing connectivity objective of 70% (as above) is maintained.
4. Not build permanent access structures in Landscape Corridors unless no other practicable alternative exists for accessing and/or extracting timber.

### 6.1.3 Objective 1.1 Seral Stage

#### Objectives

November 6, 2006 Order Establishing Land Use Objectives within the Bulkley T.S.A. Objective 1.1 Seral Stage

#### Results/Strategies

The following results/strategies relate to the above order and objective for each landscape unit in the Bulkley **FDU**.

Harvesting and road construction conducted by the **Applicable Agreement holder** will:

1. Maintain the percentage of forest area in young seral below the target levels indicated in Table 4.
2. Maintain the percentage of forest area in mature plus old seral above the target levels indicated in Table 4.0 by BEC variant and Landscape unit where mature plus old forest is > 100 years old for **ICH** and **SBS** zones and > 120 years old for **ESSF** zones.
3. Maintain the percentage of forest area in old seral above the target levels indicated in Table 4 by Bec variant and Landscape unit where old forest is > 140 years old for **SBS** zones and > 250 years old for **ESSF** and **ICH** zones, except where the existing landscape unit and BEC variant combinations is below the target levels, in which case;
  - a. No new cutting permits containing old forest will be applied for until the unit (BEC variant and landscape unit) has adequate old forest to no longer be below the target levels, and
  - b. The amount of mature seral forest equal to the area of old seral forest target deficit will be maintained within the BEC variant and landscape unit combination until the unit (BEC variant and landscape unit) has adequate old forest to no longer be below the target levels

Table 4

Landscape Unit	NDT	BEC Variant	Minimum Old <sup>a</sup> (%)	Minimum Mature <sup>b</sup> + Old (%)	Maximum Young <sup>c</sup> (%)
N/A					
Bulkley					
	3	SBSdk	10	na	na
	3	SBSmc2	10	na	na
<b>HIGH BIODIVERSITY EMPHASIS</b>					
Corya					
	1	ESSFwv	28	54	17
	2	ICHmc1	13	46	27
	2	ICHmc2	13	46	27
Nilkitkwa					
	2	ESSFmc	13	42	27
	3	SBSmc2	16	34	40
<b>INTERMEDIATE BIODIVERSITY EMPHASIS</b>					
Babine					
	2	ESSFmc	9	28	36
	3	SBSmc2	11	23	54
Copper					
	1	ESSFwv	19	36	22
	1	MHmm2	19	36	22
	2	CWHws2	9	34	36
	2	ESSFmc	9	28	36
	3	SBSmc2	11	23	54
Harold Price					
	1	ESSFwv	19	36	22
	2	ESSFmc	9	28	36
	2	ICHmc1	9	31	36
	3	SBSmc2	11	23	54
Reiseter					
	2	ESSFmc	9	28	36
	2	ICHmc1	9	31	36
	2	ICHmc2	9	31	36
	3	SBSdk	11	23	54
	3	SBSmc2	11	23	54

Landscape Unit	NDT	BEC Variant	Minimum Old <sup>a</sup> (%)	Minimum Mature <sup>b</sup> + Old (%)	Maximum Young <sup>c</sup> (%)
Telkwa					
	1	ESSFmk	19	36	22
	1	ESSFwv	19	36	22
	2	CWHws2	9	34	36
	2	ESSFmc	9	28	36
	3	SBSdk	11	23	54
	3	SBSmc2	11	23	54
Trout Creek					
	1	ESSFwv	19	36	22
	2	ICHmc1	9	31	36
	2	ICHmc2	9	31	36
	3	SBSdk	11	23	54
	3	SBSmc2	11	23	54
<b>LOW BIODIVERSITY EMPHASIS</b>					
Blunt					
	2	ESSFmc	9	14	na
	3	SBSmc2	11	11	na
Chapman					
	2	ESSFmc	9	14	na
	3	SBSmc2	11	11	na
Deep Creek					
	2	ESSFmc	9	14	na
	3	SBSdk	11	11	na
	3	SBSmc2	11	11	na
Torkelson					
	2	ESSFmc	9	14	na
	3	SBSmc2	11	11	na

<sup>a</sup> Old is defined as >250 yr in all subzones except SBSdk/mc2; and as >140 yr in the SBSdk/mc2. If there is less old than the target, there will be no old forest harvest.

<sup>b</sup> Mature is defined as >120 yr in the MHmm2 and ESSFmc/mk/wv; as >100 yr in the ICHmc1/mc2 and SBSdk/mc2; and as >80 yr in the CWHws2

<sup>c</sup> Young is defined as <=40 yr in all subzones.

### 6.1.4 Objective 1.4 Tree Species Diversity

#### Objectives

November 6, 2006 Order Establishing Land use Objectives within the Bulkley T.S.A. Objective 1.4 Tree Species Diversity.

#### Result/ Strategies

The following results/strategies relate to the above order and objective for the Bulkley **FDU** for the term of this FSP.

The **Applicable Agreement holder** will maintain a diversity of coniferous and deciduous species that represents the natural species composition of each biogeoclimatic sub- zone by:

1. Adhering to the stocking standards in section 8 of this **FSP** when planting occurs for cut blocks harvested in the Bulkley **FDU**;
2. Retaining deciduous species in wildlife tree retention areas or riparian reserve zones that relate to the cut block if the pre-harvest deciduous species content is greater than 20% of the gross stand volume as per the cruise data.

### 6.1.5 Objective 1.5 Stand Structure.

#### Objectives

November 6, 2006, Order Establishing Land Use Objectives within the Bulkley T.S.A. Objective 1.5 Stand Structure.

#### Result/ Strategies

The following results/strategies relate to the above order and objective for the Bulkley **FDU**.

The **Applicable Agreement holder** will during any 12-month period beginning on April 1 of any calendar year, where harvesting is completed on one or more cut blocks within each landscape unit ensure that, at the end of that 12-month period, the total area covered by wildlife tree retention areas that relate to the cut blocks, will be a minimum percentage of the total area of the cut blocks that have been harvested by the **Applicable agreement holder**, by each landscape unit and Bec variant combination as identified in Table 5.

**Table 5**

LU	CWHws2	ESSFmc	ESSFmk	ESSFwv	ICHmc1	ICHmc2	MHmm2	SBSdk	SBSmc2
Babine		3							7
Blunt		3							7
Bulkley Valley		5			3	5		5	7
Chapman		5							11
Copper	5	1		3			1		5
Corya				1	3	5			
Deep Ck.		1						1	3
Harold Price		3		1	1	1			7
Nilkitkwa		1							5
Reiseter		1			7	5		3	5
Telkwa	3	3	1	1				3	7
Torkelson		3							7
Trout Ck.				1	7	3		1	1

1. The **Applicable Agreement holder** will ensure that, at the completion of harvesting for a cut block, that all blocks have **Wildlife Trees** or **Wildlife Tree Patches** retained and the total amount of wildlife tree retention that relates to the cut block is a minimum of 3.5% where the target is 3.5% or greater as per Table 5. Where the target is less than 3.5% then the target will also be the minimum.
2. **Wildlife Trees and/or Patches** will contain attributes of old forest such as coarse woody debris, standing dead trees or standing live trees provided these attributes are available within the cut block area.
3. If **Wildlife Trees** are retained, these will contribute to the wildlife tree retention requirements by using **Basal Area Equivalency**.
4. If old growth attributes are not available within the cut block area then the **Wildlife Trees and/or Patches** that relates to the cut block will be representative of the stand within the cut block prior to harvest.
5. In relation to the objective set by government for wildlife and biodiversity at the stand level set out in section 5 of the **FPPR**, as per 12.5 (2) of **FPPR**, the **following result and strategy applies**:

In relation to the portion of the objective (FPPR 9.1) that relates to **FPPR** section 67 and restrictions on harvesting, as per **FPPR** 12.5 (2) the **Applicable Agreement holders** will use the following strategy:

1. No harvesting of **Wildlife Trees and/or Patches** will occur unless the following conditions are met:
  - a) Consistent with **FPPR** section 67 the trees on the net area to reforest of the cutblock to which the wildlife tree retention area relates have developed attributes that are consistent with a mature seral condition; or
  - b) The **Wildlife Trees and/or Patches** where  $\geq 50\%$  of merchantable stems are damaged or destroyed by insect, fire, or blowdown; or
  - c) The incursion is to provide road access or maintain road safety where no practicable alternative exists.
2. For conditions 1 b) and 1 c) additional requirements must be met prior to harvesting **Wildlife Trees and/or Patches**.
  - a) A **QRP** has reviewed the **Wildlife Trees and/or Patches**, including a field review, and has determined and documented the following:
    - i) The cutblock(s) to which the **Wildlife Trees and/or Patches** relate has greater than 3.5% **Wildlife Trees and/or Patches** considering both the replacement and the wildlife trees to be removed.
    - ii) The replacement **Wildlife Trees and/or Patches** are a similar stand structure, age, and species to the natural stands in the area.
    - iii) The replacement **Wildlife Trees and/or Patches** address cultural values or the existing wildlife trees were not protecting any specific cultural values.
    - iv) The replacement **Wildlife Trees and/or Patches** address wildlife habitat or the existing wildlife trees were not protecting any specific wildlife feature or species at risk.
    - v) The replacement **Wildlife Trees and/or Patches** provide an equivalent size (ha) and/or number (stems) to the **Wildlife Trees and/or Patches** being removed.

#### 6.1.6 Objective 2.0 Wildlife

##### Objective

November 6, 2006 Order Establishing Land Use Objectives within the Bulkley T.S.A. Objective 2.1 Wildlife.

##### Results/Strategies

These definitions apply to the following results/strategies for the above order and objectives:

**Wildlife Habitat and Populations** means: the wildlife areas for Moose, Deer, Grizzly Bear and Goat that are identified on the **FSP** wildlife maps.

In relation to the above order and objective, road location, development and maintenance activities conducted by the **Applicable Agreement holder** in the Bulkley FDU will minimize to the extent practicable the effects on **Wildlife Habitat and Populations** by conducting these activities at times of the year and/or day, or employing techniques while conducting these activities, that have the least effect practicable on wildlife habitat or populations by following more specific commitments in sections 6.1.6.1, 6.1.6.2 and 6.2.1

#### 6.1.6.1 Moose

##### Objective

November 6, 2006, Order Establishing Land Use Objectives within the Bulkley T.S.A. Objective 2.1 Wildlife and Objective 2.2 Moose

##### Results/Strategies

In the Bulkley FDU primary forest activities conducted by the **Applicable Agreement holder** in moose habitat will:

1. Maintain woody browse by maintaining the natural disturbance harvest patterns as per 6.1.3 seral stage targets.
2. Maintain visual screening and security along mainline and secondary roads where available during harvesting activities where practicable options for decking exist and skidding away.
3. Maintain or enhance visual screening and security within 10 m meters of non-deactivated roads. Brush and deciduous shall be considered non deleterious in the 10-meter zone.
4. Provide thermal and snow interception cover by applying results or strategies as per 6.1.3 seral stage, 6.1.1 core ecosystems, 6.1.2 landscape corridors and 6.1.5 stand structure.
5. Where it exists, maintain 5 to 50 stems/ha of understory for browse and visual screening except not within 60 m of decking areas or designated skid trails.

#### 6.1.6.2 Deer

##### Objective

November 6, 2006 Order Establishing Land Use Objectives within the Bulkley T.S.A. Objective 2.1 Wildlife and Objective 2.6 Deer.

##### Results/Strategies

In the Bulkley FDU primary forest activities conducted by the **Applicable Agreement holder** in deer habitat will:

1. Maintain woody browse by maintaining the natural disturbance harvest patterns as per 6.1.3 seral stage targets.
2. Maintain visual screening along mainline and secondary roads where available during harvesting activities where practicable options for skidding away exist.
3. Brush and deciduous shall be considered non deleterious within 10 meters of non-deactivated roads.
4. Provide thermal and snow interception cover by applying results or strategies as per 6.1.3 seral stage, 6.1.1 core ecosystems, 6.1.2 landscape corridors and 6.1.5 stand structure.
5. Where harvesting occurs adjacent to steep south facing slopes, design **Wildlife Tree Patches** on or adjacent to these slopes.



### 6.1.6.3 Grizzly Bear

#### Objective

November 6, 2006 Order Establishing Land Use Objectives within the Bulkley T.S.A. Objective 2.1 Wildlife and Objective 2.5 Grizzly Bear.

#### Results/Strategies

In relation to the above order and objective, for identified moderate value, high value and mixed forest habitat areas, primary forest activities conducted by the **Applicable Agreement holder** will;

- a) not construct permanent road through or immediately adjacent to mapped habitat unless there is no other practicable option to prevent the isolation of timber, and
- b) where permitted to do so at law, deactivate all roads not required for future timber development within a cutblock overlapping habitat by the date as soon as practicable after the FSP holder completes for that cutblock all activities required to achieve the stocking standards that apply under this FSP, and
- c) maintain a 20 meter visual buffer on any permanent roads that need to be created, and
- d) conduct winter harvesting and road construction to the extent practicable, and
- e) double stand level retention requirements for identified grizzly habitat areas, and
- f) maintain a 20 meter buffer on NcBr and avalanche shoots, and
- g) maintain 200 m or less to hiding cover, and
- h) double riparian reserve zones and retain a 10 m reserve on all S6, S5 and S4 Streams and
- i) Maintain 100 m no harvest buffer on classified wetlands, and
- j) schedule harvesting and road construction activities to average 1 year of entry for every 5 years, and
- k) not conduct stand tending or vegetation management within 20 meters of any road
- l) Maintain landscape corridor as per 6.1.2 to maintain connection between Nickyeskwa South and North management areas, and
- m) Maintain core ecosystems as per 6.1.1 to maintain connection between Nickyeskwa South and North and Boucher creek management areas.

### 6.1.7 Objective 4.1 Enhanced Timber Development Areas

#### Objective

November 6, 2006 Order Establishing Land Use Objectives within the Bulkley T.S.A. Objective 4.1 Enhanced Timber Development Areas.

#### Results/ Strategies

The following results/strategies relate to the above order and objective for Timber in the Enhanced Timber Development Areas in the Bulkley **FDU** as identified on the FSP biodiversity maps.

Enhanced Timber development zones will be a priority for harvest conducted by the **Applicable Agreement holder** during the **term** of the **FSP** to enhance available timber supply and improve timber quality except where:

1. Other resource values may reduce the priority for harvest in these areas;
2. Areas outside these zones are a higher priority for harvest because of safety, fire suppression, or to manage pest or disease outbreaks;
3. It is impracticable under the circumstances or impairs the ability of the **Applicable Agreement holder** to exercise their timber harvesting rights in a manner consistent with sections 6(b) and (c) of the **FPPR** to prioritize these areas for harvest;
4. Actions of another person or other natural event make harvesting in these areas a lower priority;
5. Requests or authorization by government make these areas a lower priority.

### 6.1.8 Objective 5.0 Outdoor Recreation

#### Objective

November 6, 2006 Order Establishing Land Use Objectives within the Bulkley T.S.A. Objective 5.1 Recreation Opportunities and Objective 5.2 Recreation Access

#### Results/Strategies

In the Bulkley FDU primary forest activities conducted by the **Applicable Agreement holder** in proximity to recreation features will:

1. Ensure that recreation features are passable, accessible and identifiable upon completion of primary forest activities;
2. Ensure that access to existing recreation features is maintained upon completion of primary forest activities.

### 6.1.9 Resource Management Zones

#### 6.1.9.1 Big Onion Mountain RMZ

#### Objective

December 19, 2000, Order Establishing Land Use Objectives within the Bulkley T.S.A. Subunit 5-2 within the Bulkley LRMP.

#### Results/Strategies

No harvesting will be conducted in the Big Onion Mountain RMZ as identified on the FSP maps, by the **Applicable Agreement holders** in the Bulkley FDU for the term of this FSP.

#### 6.1.9.2 Old Cronin Mine Area RMZ

#### Objective

December 19, 2000 Order Establishing Land Use Objectives within the Bulkley T.S.A. Subunit 5-3 within the Bulkley LRMP.

#### Results/Strategies

No harvesting will be conducted in the Old Cronin Mine Area RMZ as identified on the FSP maps, by the **Applicable Agreement holders** in the Bulkley FDU for the term of this FSP.

#### 6.1.9.3 Cronin Alpine RMZ

#### Objective

December 19, 2000 Order Establishing Land Use Objectives within the Bulkley T.S.A. Subunit 5-4 within the Bulkley LRMP.

#### Results/Strategies

No harvesting will be conducted in the Cronin Alpine RMZ as identified on the FSP maps, by the **Applicable Agreement holders** in the Bulkley FDU for the term of this FSP.

#### 6.1.9.4 Reiseter Creek RMZ

#### Objective

December 19, 2000 Order Establishing Land Use Objectives within the Bulkley T.S.A. Subunit 5-6 within the Bulkley LRMP.

**Results/Strategies**

In the Reiser Creek Resource Management Zone the **Applicable Agreement holder** will:

1. Apply a 20 meter riparian reserve zone and a 20 metre riparian management zone to all S4, S5 and S6 creeks;
2. Insect infested trees maybe harvested from within the riparian reserve zone applied to S4, S5 and S6 streams; and
3. Follow guidance on access restrictions as outlined in the Bulkley District Gate Lock Procedures; as of the legislated Planning Date

**Table 6:** Applicable Results or strategy in this FSP that add further management:

Applicable result and strategy	Section
Core ecosystems	6.1.1
Landscape corridors	6.1.2
Goat habitat	6.2.1
Recreation	6.1.8
Water quality	As per results/strategies above (6.1.9.4 a), b) and c))
Visuals	6.4.6

**6.1.9.5 Upper Corya Creek RMZ**

**Objective**

December 19, 2000 Order Establishing Land Use Objectives within the Bulkley T.S.A. Subunit 8-1 with in the Bulkley LRMP.

**Results/Strategies**

In the Upper Corya Creek this resource management zone is entirely overlapped by other objectives for core ecosystems, landscape corridors, goat habitat and visuals. The following results and strategies apply to this sub unit as per Table 7 below.

**Table 7:** Applicable Results or strategy in this FSP:

Applicable result and strategy	Section
Core ecosystems	6.1.1
Landscape corridors	6.1.2
Goat habitat	6.2.1
Recreation	6.1.8
Visuals	6.4.6

**6.1.9.6 Agriculture/Wildlife Zone**

**Objective**

December 19, 2000 Order Establishing Land Use Objectives within the Bulkley T.S.A. Subunit 7-3 with in the Bulkley LRMP.

**Results/Strategies**

In the Agriculture/Wildlife Zone:

- If harvesting a cutblock or constructing a road to which this FSP applies in the Agriculture/Wildlife zone, the **Applicable Agreement holder** will apply the result or strategy listed in Table 8 for the relevant species of concern identified on the Bulkley FSP map.

**Table 8:**

Species of Concern Identified on FSP map	Result of Strategy that will be applied:
Goat	6.2.1
Moose	6.1.6.1
Deer	6.1.6.2

The **Applicable Agreement holder** will treat the interface between private land and wildlife habitat areas as per **natural range barriers** under section 7.2 of this FSP in order to minimize conflicts between wildlife and agriculture.

The **Applicable Agreement holder** will maintain existing fencing or repair if damaged by harvesting within one snow free season.

**6.1.10 Community Watersheds**

**Objective**

February 25, 2005 as per FRPA s8.2 objective for Community Watersheds with in the Bulkley TSA.

**Definitions**

For the purposes of this result and strategy community watersheds means, Canyon Creek, Corya Creek, John Brown Creek as per Bulkley FSP maps.

**Results/Strategies**

Where the **Applicable Agreement holder** of this FSP carries out a harvesting, road construction or road deactivation within a community watershed as depicted on the FSP maps, the Holders will: adopt, as a result or strategy, sections 59 (protecting water quality), 60 (licensed waterworks), 61 (excavated of bladed trails) and 62 (roads in a community watershed) of the **FPPR** as those sections were on the date this FSP was submitted for approval The **Applicable Agreement holder** of this FSP will adopt the following strategy when proposing timber harvesting and / or road construction within the watershed boundaries:

1. A qualified registered professional (**QRP**) will assess the potential impact of the proposed timber harvesting and / or road construction activities causing:
  - a) Material that is known to be harmful to human health from being deposited in or transported to water diverted for human consumption by a licensed waterworks, or
  - b) A material adverse impact on the quantity of water or the timing of the flow of the water to the waterworks, or
  - c) An increase in sediment delivery to the intake or causing sediment that is harmful to human health to enter a stream, lake or wetland from which water is being diverted for human consumption.
2. If the assessment completed in 1 indicates the risk, as defined by the **QRP** in the assessment, is moderate or high based on a review of the relevant and available site-specific hydrological information then, the **Applicable Agreement holder** will:
  - a) Before the commencement of timber harvesting and / or road construction activities, ensure that a hydrological assessment, including cumulative effects, is completed by a qualified registered professional.
  - b) Evaluate the recommendations of the hydrologic assessment.
  - c) Ensure that, in the opinion of a **QRP**, that the proposed timber harvesting and / or road construction are consistent with the recommendations contained within the hydrologic assessment.
3. If the assessment completed in 1 indicates the risk is low based on a review of the relevant and available site-specific hydrological information then the requirements of section 2 do not apply and the timber harvesting and / or road construction may proceed without further assessment.

**6.1.11 Objective for Fish Habitat – Wilderness Lakes**

**Objective**

November 6, 2006 Order Establishing Land Use Objectives within the Bulkley T.S.A. Objective 3.0 for Fish Habitat

**Results/Strategies**

Forest practices, subject to applicable transition provisions, will be consistent with legal designation if and when they occur. For candidate wilderness lakes as per FSP maps, the **Applicable Agreement holder** will not construct permanent roads within 1 km of these lakes and will deactivate temporary roads within 2 years post-harvest with the objective of preventing motorized access. Deep cross ditch, reforestation of the road, piling of debris on the road and structure removal are examples of suitable strategies for the objective of preventing motorized access.

**6.1.12 Objectives Set by Government for Fish Habitat in Fisheries Sensitive Watersheds.**

**Objective:**

As per FPPR 8.1 objective and Fisheries Sensitive Watersheds listed under schedule 2 of FPPR.

**Results**

“**FSW**” means the Cumming Creek, Gramophone Creek, Jonas Creek, Toboggan Creek, West Babine (Five Mile Creek), Nilkitkwa Lake<sup>1</sup>, and Boucher Creek Fisheries Sensitive Watersheds within the Bulkley FDU.

**Activities within the FSW**

If harvesting a cutblock or constructing a road to which this FSP applies:

1. If in a **FSW** listed in Table 9, the **Applicable Agreement holder** will not cause as of the conclusion, and by virtue, of the harvesting or construction a target specified to be exceeded:

**Table 9**

FSW Gazetted Name	Targets			
	Equivalent Clearcut Area	Peak Flow Index	Road Density (km/km <sup>2</sup> )	Stream Crossing Density (#/km <sup>2</sup> )
Cumming Creek	30	35	1.4	0.5
Gramophone Creek	25	35	1.6	0.5
Five Mile Creek	35	45	1.3	0.55
Toboggan Creek	25	32	1.4	0.9
Nilkitkwa Lake <sup>1</sup>	35	45	1.6	0.6
Boucher Creek	30	35	1.4	0.5

<sup>1</sup> Nilkitkwa Lake FSW consists of several watersheds tributary to the lake and to be managed on an individual basis.

2. If in a **FSW** not listed in Table 9 the **Applicable Agreement holder** will:
  - a) Before harvesting a cutblock with NAR exceeding 1 hectare in size, or constructing a road determine, through watershed assessment, the targets listed in the table above, applicable to that FSW; and
  - b) Not cause, as of the conclusion, and by virtue, of harvesting or road construction, such a target to be exceeded.

## 6.2 Bulkley FDU

### 6.2.1 Mountain Goat

#### Objective

June 2020 Land Use order cancelling objective 2.3 Mountain Goat to provide for updated Ungulate Winter Range order 6-007 which was effective August 15, 2019.

#### Results/Strategies

The Results and Strategy for Mountain Goat will be the General Wildlife Measures specified in Ungulate Winter Range order 0-6-007 and consistent with FRPR s 69.

## 6.3 Morice FDU

### 6.3.1 Morice Land Use Objectives

#### Definitions

**Early** Seral is defined as less than 40 years old.

**Mature** is defined as 100 to 140 years old

**Old** is greater than 140 years old.

**Harvesting** has the same meaning as per FPPR section 1.

#### Objectives

Land use objectives for the Morice LRMP area for biodiversity pursuant to section 93.4 of the Land Act effective September 29, 2016.

#### 6.3.1.1 Seral Distribution

##### Objective 1

Maintain a distribution of seral classes across the Morice LRMP area as outlined in Table 1 for the General Forested Area as shown on Map 1, and for each High Biodiversity Emphasis Area (HBEA), as shown on Map 2 (map contained in order).

##### Result and Strategy for objective 1:

The following result and strategies relate to the objective 1 above for the Morice FDU. The locations for the

Resource Management Zones can be found on the FSP biodiversity maps 1-8.

If the harvesting of a cutting permit will cause or continue to cause the **early** seral percentage to be equal to or greater than the threshold for a Resource Management unit and BEC variant combination in Table 10, then the **Applicable Agreement holder** will not submit that cutting permit, or;

If the harvesting of a cutting permit will cause or continue to cause the **mature plus old** seral percentage to be equal to or less than the threshold for a Resource Management Zone and BEC variant combination in Table 10, then the **Applicable Agreement holder** will not submit that cutting permit, or;

If the harvesting of a cutting permit will cause or continue to cause the **old** seral percentage to be equal to or less than the threshold for a Resource Management Zone and BEC variant combination in Table 10, then the **Applicable Agreement holder** will not submit that cutting permit.

**Table 10**

RESOURCE MANAGEMENT ZONE	BEC VARIANT	Early Seral Maximum (%)	Mature + Old Seral Minimum (%)	Old Seral Minimum (%)
General Forested Area	CWHws <sub>2</sub> and MHmm <sub>2</sub>	27	64	62
	ESSFmc and ESSFmv <sub>3</sub>	38	37	34
	ESSFmk	9	83	82
	SBSdk	64	10	8
	SBSmc <sub>2</sub> and SBSwk <sub>3</sub>	48	20	17
Nanika River HBEA	CWHws <sub>2</sub> and MHmm <sub>2</sub>	16	70	70
	ESSFmc and ESSFmv <sub>3</sub>	28	70	42
	ESSFmk	7	70	84
	SBSdk	50	70	16
	SBSmc <sub>2</sub> and SBSwk <sub>3</sub>	37	70	26
Friday/Nakinilerak/ Hautête Lakes HBEA	CWHws <sub>2</sub> and MHmm <sub>2</sub>	16	71	70
	ESSFmc and ESSFmv <sub>3</sub>	28	48	42
	ESSFmk	7	86	84
	SBSdk	50	21	16
	SBSmc <sub>2</sub> and SBSwk <sub>3</sub>	37	33	26
Morrison Lake HBEA	CWHws <sub>2</sub> and MHmm <sub>2</sub>	16	71	70
	ESSFmc and ESSFmv <sub>3</sub>	28	48	42
	ESSFmk	7	86	84
	SBSdk	50	21	16
	SBSmc <sub>2</sub> and SBSwk <sub>3</sub>	37	33	26
Thautil/Gosnell Rivers HBEA	CWHws <sub>2</sub> and MHmm <sub>2</sub>	16	71	70
	ESSFmc and ESSFmv <sub>3</sub>	28	48	42
	ESSFmk	7	86	84
	SBSdk	50	21	16
	SBSmc <sub>2</sub> and SBSwk <sub>3</sub>	37	33	26
Upper Morice River HBEA (above Thautil-Gosnel confluence)	CWHws <sub>2</sub> and MHmm <sub>2</sub>	16	70	70
	ESSFmc and ESSFmv <sub>3</sub>	28	70	42
	ESSFmk	7	70	84
	SBSdk	50	70	16
	SBSmc <sub>2</sub> and SBSwk <sub>3</sub>	37	70	26
Lower Morice River HBEA (below Thautil-Gosnel confluence)	CWHws <sub>2</sub> and MHmm <sub>2</sub>	16	50	70
	ESSFmc and ESSFmv <sub>3</sub>	28	50	42
	ESSFmk	7	50	84
	SBSdk	50	50	16
	SBSmc <sub>2</sub> and SBSwk <sub>3</sub>	37	50	26

### 6.3.1.2 Area Specific Management Areas

#### Objective 2

Retain 70% of the forested area as **Mature** and **Old** in the following Area Specific Management Areas, shown on Map 3 (map contained in order):

Nadina/Owen, and

Grease Trail – from 100 metres beyond the trail to 500 metres beyond the trail.

#### Result and Strategy for objective 2:

The Nadina/Owen and Grease Trail Area Specific Management Zones (ASM) contribute to the seral percent targets of the general forested area, but have a different requirement for the **Mature** and **Old** seral. For the Morice FDU, the following applies to the Nadina/Owen and Grease Trail ASM zones:

If the harvesting of a cutting permit will cause or continue to cause the **Mature** plus **Old** seral percentage to be equal to or less than 70% in the entire ASM, then the **Applicable Agreement holder** will not submit that cutting permit.

#### Objective 3

Retain 50% of the forested area as **Mature** and **Old** in the following Area Specific Management Areas, shown on Map 3 (map contained in order).

Nadina River – within the 500 metre buffer beyond the 100 year floodplain, and

Le Talh Giz (Old Fort Mountain).

#### Results and Strategy for objective 3:

The Nadina river and Le Talh Giz Area Specific Management Zones (ASM) contribute to the seral percent targets of the general forested area, but have a different requirement for the **Mature** and **Old** seral. For the Morice FDU, the following applies to the Nadina river and Le Talh Giz ASM zones:

If the harvesting of a cutting permit will cause or continue to cause the **Mature** plus **Old** seral percentage to be equal to or less than 50% in the entire ASM, then the **Applicable Agreement holder** will not submit that cutting permit.

### 6.3.1.3 Old Growth Management Areas

#### Objective 4

Manage for **Old** growth forests by retaining all the crown forested area located within Old Growth Management Areas (OGMAs), as identified on Map 4 (map contained in order).

#### Results and Strategy for objective 4:

**Harvesting** and road construction will not be conducted by the **Applicable Agreement holders** in OGMA areas for the term of this plan and if an OGMA is amended or established during the term of the FSP, then the applicable agreement will not harvest timber or build a road in the amended or newly established OGMAs provided the change was made known to the **Applicable Agreement holders**.

### 6.3.1.4 Wildlife Retention Areas

#### Objective 5

Achieve structurally complex mature and old forest over the rotation by retaining wildlife tree retention (WTR) areas distributed across the Morice LRMP area, as shown on Map 1, for each cutblock according to a) and b):

a) For cutblocks greater than or equal to 250 hectares, as per the requirements set out in Table 11, and

b) For cutblocks less than 250 hectares, as per the *Forest and Range Practices Act, s. 66 Forest Planning and Practices Regulation*.



**Table 11 Wildlife Tree Retention (WTR) Requirements for each Cutblock >=250 ha**

Resource Management Zone	BEC Variant	Average % WTR	Minimum % WTR
General Forested Area and Area Specific Management Areas combined	ESSF combined	15	10
	SBSdk	15	10
	SBSmc <sub>2</sub> and SBSwk <sub>3</sub> combined	15	10
High Biodiversity Emphasis Area	ESSF combined	25	20
	SBSdk	25	20
	SBSmc <sub>2</sub> and SBSwk <sub>3</sub> combined	25	20

**Results and strategy for objective 5:**

For the term of this plan, in the Morice FDU, **Applicable Agreement holders** will:

1. In relation to objective 5a, for cut blocks greater than 250 ha, harvested between April 1 and March 31<sup>st</sup>, for each year of this plan, the amount of WTR will be equal to or greater than the average and minimum as per Table 11.
2. In relation to objective 5b, will comply with sections 66 of the **FPPR** as that section was on the Date of Submission.
3. In relation to section 67 of the **FPPR** will use the provision in **FPPR** 12.5 (2) with the following result and strategy:

In relation to the portion of the objective (FPPR 9.1) that relates to **FPPR** section 67 and restrictions on harvesting, as per **FPPR** 12.5 (2) the **Applicable Agreement holders** will use the following strategy:

1. No harvesting of wildlife trees retention area will occur unless the following conditions are met:
  - a) Consistent with **FPPR** section 67 the trees on the net area to reforest of the cutblock to which the wildlife tree retention area relates have developed attributes that are consistent with a mature seral condition; or
  - a. The **Wildlife Trees and/or Patches** where >= 50% of merchantable stems are damaged or destroyed by insect, fire, or blowdown; or
  - b) The incursion is to provide road access or maintain road safety where no practicable alternative exists.
2. For conditions 1 b) and 1 c) additional requirements must be met prior to harvesting wildlife trees.

A **QRP** has reviewed the wildlife trees, including a field review, and has determined and documented the following:

1. The cutblock(s) to which the wildlife trees relate has greater than 3.5% wildlife trees considering both the replacement and the wildlife trees to be removed.
2. The replacement wildlife trees are a similar stand structure, age and species to the natural stands in the area.
3. The replacement wildlife trees address cultural values or the existing wildlife trees were not protecting any specific cultural values.
4. The replacement wildlife trees address wildlife habitat or the existing wildlife trees were not protecting any specific wildlife feature or species at risk.
5. The replacement wildlife trees provide an equivalent size (ha) and/or number (stems) to the wildlife trees being removed.

**Objective 6**

For the purposes of Objective 5, ensure that all wildlife tree retention areas include one or more of the following high value wildlife tree attributes:

- Diversity of wildlife tree retention strategies (e.g., a range of patch sizes combined with dispersed trees);
- Diversity of habitat types.

- Internal decay (heart rot or natural/excavated cavities present);
- Crevices present (loose bark or cracks suitable for bats);
- Large brooms present;
- Active or recent wildlife use;
- Tree structure suitable for wildlife use (e.g., large nest, hunting perch, bear den);
- Large trees for the site (height and diameter) and veterans;
- Representative of the size, age and species of the pre-harvest stand;

**Result for objective 6:**

At the completion of harvesting, wildlife tree patches and wildlife trees retained by the **Applicable Agreement holders** in the Morice FDU, to meet objective 5, will have at least one attribute as per objective 6 above. A QRP will document in a site plan or supporting documents how this objective is met.

**6.3.1.5 No Timber Harvest Areas**

**Objective 7**

Retain 100% of the forested area within “No Timber Harvesting Areas” Identified on Map 5 (map contained in order):

1. Babine Lake East Arm 30 metre buffer
2. Bulkley 100-year floodplain
3. Grease Trail 100 metre buffer
  - a) Timber harvesting may be allowed to address a reasonable concern as determined by the Regional Executive Director, provided that the overall effectiveness of maintaining the integrity of the values within the Grease Trail NTHA will not be diminished. Examples of reasonable concerns may include:
    - New road development and maintenance where no practicable alternatives exist, and subject to these roads being deactivated once operational activities are complete.
    - To access timber beyond the NTHA that otherwise would be isolated from harvest, where no practicable alternative exists.
    - To address a forest health factor within the NTHA where this poses a significant and substantiated forest health risk to forests within or outside the NTHA and where harvesting constitutes an appropriate and effective control action.
    - To address a public or industrial safety concern, or an environmental hazard, including by widening the hydro powerline right-of-way, where no practicable alternative exists.
  - b) All requests to harvest timber within the Grease Trail NTHA must be reviewed and approved by the Regional Executive Director prior to the submission of a cutting permit or road permit.
4. Herd Dome
5. Lower Nadina River 100-year floodplain
6. Upper Nadina River 100-year floodplain
7. Morice Range/Nanika Lake 1
8. Morice Range/Nanika Lake 2
9. Morice Range/Nanika Lake 3
10. Upper and Lower Morice River 100-year floodplains
11. Morrison Lake 30 metre buffer
12. Nanika River 100-year floodplain
13. Starr Creek
14. Swan Lake/China Nose 1
15. Swan Lake/China Nose 2
16. Tahtsa-Troitsa

**Result and strategy for objective 7:**

No road construction and no **Harvesting** will be conducted in No Timber Harvesting Areas (NTHA), as per Morice FSP maps, by the **Applicable Agreement holders** in the Morice FDU unless otherwise approved by the Regional Executive Director for the Grease trail. All requests to harvest timber within the Grease Trail NTHA will be submitted for review and approval by the Regional Executive Director prior to the submission of a cutting permit or road permit.

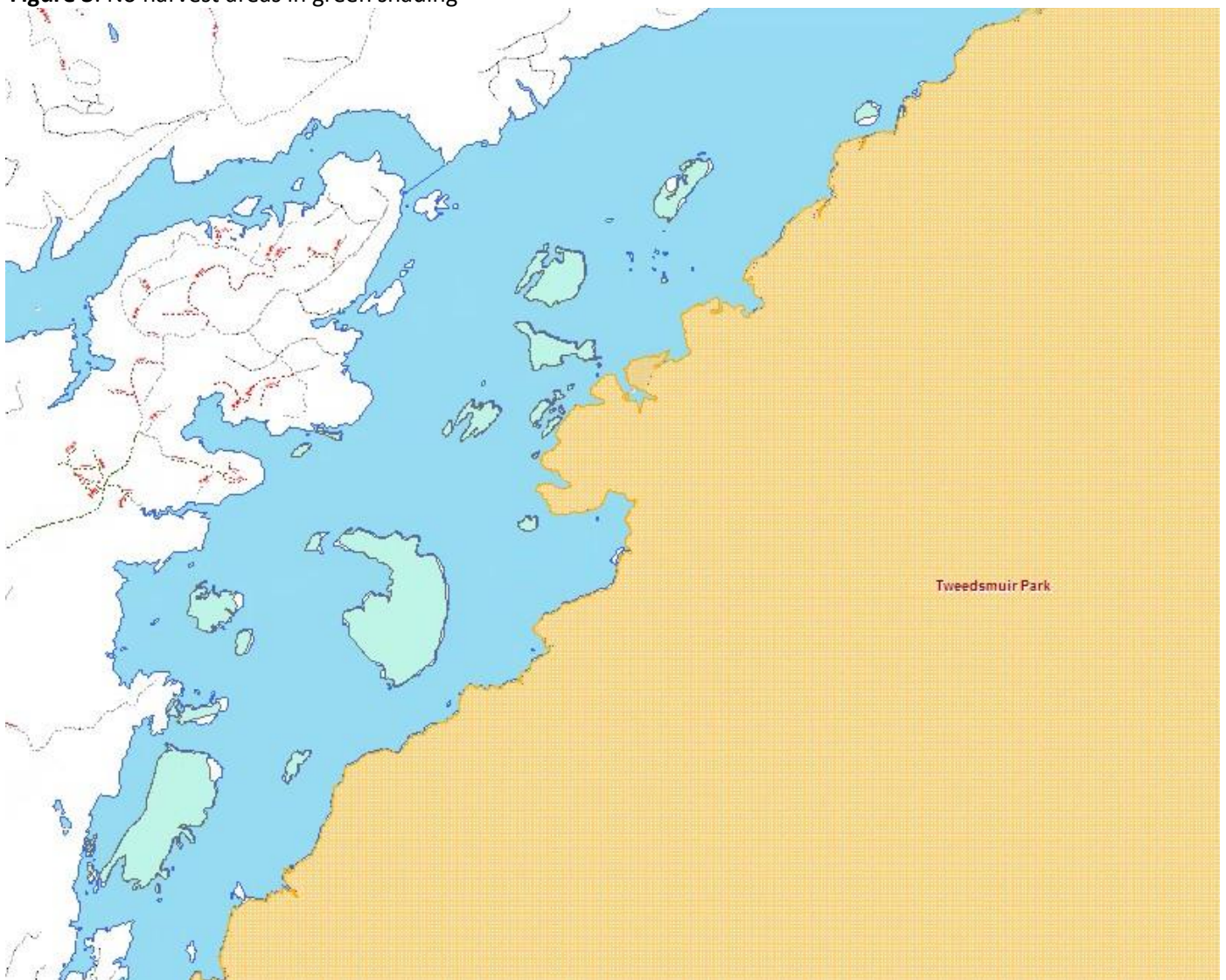
**6.3.2 Habitat Required for Winter Survival. Northern Caribou (Tweedsmuir Caribou)**

FPPR Section 7(2) NOTICE – INDICATORS OF THE AMOUNT, DISTRIBUTION AND ATTRIBUTES OF WILDLIFE HABITAT REQUIRED FOR THE WINTER SURVIVAL OF UNGULATE SPECIES IN THE MORICE TIMBER SUPPLY AREA dated Dec. 30<sup>th</sup> 2004.

**Result**

In relation to the amount, distribution and attributes of wildlife habitat required for the winter survival of the Tweedsmuir Caribou, the **Applicable Agreement holder** will not harvest or construct road on any of the islands within the Ootsa waters between Whitesail and Tweedsmuir Park as per Figure 3. The shaded areas represent 783.9 ha.

**Figure 3:** No harvest areas in green shading



**6.4 For all FDU’s Results/Strategies for Objectives in Regulation**

Objectives set by Government prescribed under section 149 of **FRPA** and section 5 to 10 of the **FPPR**.

**6.4.1 Objectives Set by Government for Soils**

In relation to the objective set by government for soils set out in section 5 of the **FPPR**, as per 12.1 (1) of **FPPR** the **Applicable Agreement holder** will comply with sections 35 & 36 of the **FPPR** as those sections were on the Date of Submission. This commitment is for all FDU’s and is for the term of this plan.

**6.4.2 Objectives Set by Government for Timber**

As per FPPR 12 (8) a person who is required to prepare a forest stewardship plan is exempt from the requirement to prepare results or strategy for an objective set by government for timber.

**6.4.3 Objectives Set by Government for Landscape Level Biodiversity - Patch Size Morice and Bulkley**

For the objective set by government for biodiversity at the landscape level as set out in section 9 of the FPPR in the Morice and Bulkley FDU’s the following applies:

As per section FPPR 12.1 (3) the **Applicable Agreement holder** will comply with FPPR sections 64 and 65 as those sections were at the time of submission, during the term of this plan.

**6.4.4 Objectives Set By Government for Water, Fish, Wildlife and Biodiversity within Riparian Areas**

**6.4.4.1 Riparian Classification, Riparian Reserve Zone, and Riparian Management Area**

The following results/ strategy applies 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**.

In all FDU’s, the **Applicable Agreement holders**, when conducting primary forest activities, will comply with the default practice requirements of section 47 (stream riparian classes), 48 (wetland riparian classification, 49 (lake riparian classification), 50, 51, 52(2) and 53 of the **FPPR** as those sections were on the Date of Submission.

**Table 12:** Riparian Reserve, management and retention – Streams.

Riparian Class*	Riparian Reserve Zone (m)	Riparian Management Zone (m)	Retention in the Riparian Management Zone – Streams**	
			Low Windthrow Hazard	Mod/High Windthrow Hazard
S1	50	20	> 0	≥ 25
S2	30	20	> 0	> 25
S3	20	20	> 0	> 25
S4	0	30	As per 6.4.4.2	As per 6.4.4.2
S5	0	30	As per 6.4.4.2	As per 6.4.4.2
S6	0	20	As per 6.4.4.2	As per 6.4.4.2

\* Refer to definition of wetland classifications found in FPPR Section 47.  
 \*\* Retention defined in section 6.3.4.2 retention details.

**Table 13:** Riparian Reserve, management and retention - Wetlands

Riparian Class*	Riparian Reserve Zone (m)	Riparian Management Zone (m)	Retention in the Riparian Management Zone– Wetlands**	
			Low Windthrow Hazard	Mod/High Windthrow Hazard
W1	10	40	> 0	≥ 25
W3	0	30	As per 6.4.4.2 f	As per 6.4.4.2 f
W5	10	40	> 0	≥ 25

\* Refer to definition of wetland classifications found in FPPR Section 48.  
 \*\* Retention defined in section 6.4.4.2 retention details.

**Table 14:** Riparian Reserve, management and retention – Lakes

Riparian Class*	Riparian Reserve Zone (m)	Riparian Management Zone (m)	Retention in the Riparian Management Zone– Wetlands**	
			Low Windthrow Hazard	Mod/High Windthrow Hazard
L1-A	0	0	NA	NA
L1-B	10	0	NA	NA
L3	0	30	As per 6.4.4.2 f	As per 6.4.4.2 f

\* Refer to definition of wetland classifications found in FPPR Section 48.  
 \*\* Retention defined in section 6.4.4.2 retention details.

**6.4.4.2 Retention of trees in the Riparian Management Zone (RMZ)**

**Definitions:**

**Reach:** A reach is a length of stream having similar channel morphology, channel dimension, and gradient. A reach must be greater than 100m in length or flows into a fish bearing stream, lake, or wetland or a licensed waterworks.

**Stub:** Standing tree cut off at greater than 3m in height.

In all FDU’s, to meet the requirements of FPPR 12 (3), where primary forest activities are conducted in riparian management zones (RMZ) and within the cutblock, the **Applicable Agreement holder** will comply with the following result and strategies:

1. For the purposes of maintaining the integrity of the riparian reserve zone (RRZ), riparian areas that have a classification that requires that a RRZ be established under **FPPR 47(4), 47(6), 48(3), 49(2) or 49(3)**, a minimum 25% of the area resulting in a post-harvest stand structure representative of the pre-harvest conditions and/or basal area in the RMZ will be retained for the portion(s) of the RRZ assessed to have a moderate to high windthrow hazard.
2. For riparian areas that have a classification that requires that a riparian reserve zone be established under **FPPR 47(4), 47(6), 48(3), 49(2) or 49(3)**, greater than 0% of the area and/or basal area in the RMZ will be retained if the wind throw hazard is low.
3. Stream crossings and corridors for full suspension yarding are not part of the retention calculations.
  - a) For these crossings and corridors **Stubs** will be part of the retention where a **QRP** specifies they are required to protect worker safety, stream bank integrity, protect other retention, or to reduce the clearing width required for stream crossings or yarding corridors.
4. For S4, S5 or S6 stream **Reaches** greater than or equal to 1m channel width, within a 20 m zone (includes 10 m either side) retain
  - a) *not less than 75% of the pre-harvest stems/ha greater than 15cm DBH, and/or*
  - b) *not less than 75% of the area resulting in a post-harvest stand structure representative of the pre-harvest conditions, and*

- c) *as practicable, brush species, advanced regeneration, non-merchantable conifers, and non-commercial stems over the length of that **reach**.*
5. For S4 or S6 stream **Reaches** greater than or equal to 0.5m and less than 1.0m channel width, within a 20 m zone (includes 10 m either side) retain:
- a) *not less than 50% of the pre-harvest stems/ha greater than 15cm DBH, and/or*
  - b) *not less than 50% of the area resulting in a post-harvest stand structure representative of the pre-harvest conditions, and*
  - c) *as practicable, brush species, advanced regeneration, non-merchantable conifers, and non-commercial stems over the length of that **reach**.*
6. For S4 or S6 stream **Reaches** less than 0.5m channel width, within a 20 m zone (includes 10 m either side) retain:
- a) *not less than 25% of the pre-harvest stems/ha greater than 15cm DBH, and/or*
  - b) *not less than 25% of the area resulting in a post-harvest stand structure representative of the pre-harvest conditions, and*
  - c) *as practicable, brush species, advanced regeneration, non-merchantable conifers, and non-commercial stems over the length of that **reach**.*
7. For W3 or L3 features within a 10 m zone retain:
- a) *not less than 25% of the pre-harvest stems/ha greater than 15cm DBH as **Stubs** or full stems, and*
  - b) *as practicable, brush species, advanced regeneration, non-merchantable conifers, and non-commercial stems.*

#### **6.4.5 Objectives Set by Government for Cultural Heritage Resources**

The following results and strategies apply in relation to the objectives set by government for cultural heritage resources set out in section 10 of the **FPPR** for all **FDU**'s in this plan.

In this result/ strategy:

**“Cultural heritage evaluation”** means the sharing of information and engagement with applicable First Nations, for the purpose of gathering cultural heritage information. The intent of this engagement is to lead to a discussion. This discussion includes an appraisal of the value of an object, site, or location of a traditional societal practice that is of historical or cultural significance to First Nations. This discussion includes options for mitigating or protecting from impact to that object, site, or location of a traditional societal practice as a result of the forest practice contemplated. This covers values not regulated under the Heritage Conservation Act and are of continuing importance to First Nations people.

In relation to the objective set by government for cultural heritage resources set out in section 10 of the **FPPR**, the strategies that apply to all **FDU**'s are:

It is recognized that the archaeological process regulated under the Heritage Conservation Act is separate process but could lead to information on values applicable to a **Cultural heritage evaluation**. Any of these applicable values identified will be included in **Cultural heritage evaluation** process below.

Before an **Applicable Agreement holder** submits an application for cutting authority, the agreement holder will:

1. Gather and summarize information as per information sharing processes defined by government.
2. Ensure that a **Cultural heritage evaluation** is completed.
3. Where an **Applicable Agreement holder** receives site specific information or identifies a cultural heritage resource the **Applicable Agreement holder**, will:
  - a) Make a record of the communication with the affected person or group.
  - b) Identify the location and attributes of the cultural heritage resource in question, both on a map and on the ground;

- c) As part of the discussion evaluate the direct impact of the planned development on the cultural heritage resource;
- d) conserve or protect the cultural heritage resource at the known location, considering the information discussed on:
  - (A) the relative value or importance of the cultural heritage resource to the continued traditional use by a First Nations person;
  - (B) the relative abundance or scarcity of the cultural heritage resource;
  - (C) the extent of the traditional use of the cultural heritage resource, and;
  - (D) the impact on the **Applicable Agreement holder's** government granted timber harvesting rights in conserving or protecting the cultural heritage resource,
- e) Provide the results of the **Cultural heritage evaluation** to government and/or the party providing the information upon request.

4. The **Applicable Agreement holder** will ensure all primary forest activities will be consistent with the recommendations given in a **Cultural heritage evaluation**, and

Where a previously unidentified cultural heritage resource feature is encountered or made known during primary forest activities, the **Applicable Agreement holder** will cease operations to the extent necessary to protect the feature, until a **Cultural heritage evaluation** can be carried out.

#### 6.4.6 Objectives Set by Government for Visual Quality with no VQO

The following results and strategies apply in relation to the objectives set by government for Visual Quality set out in section 9.2 of the **FPPR** for scenic areas continued under FRPA 180(c) where no visual quality classes were continued as visual quality objectives under **GAR 17** in the Morice FDU, but where a visual sensitivity class was established before October 24, 2002. A list is summarized in Appendix C for where this situation occurs.

In this Result:

**“Alteration”** means changing or making something different as a result of conducting harvesting or road construction by the **Applicable Agreement holder**.

A **Significant Public Viewpoint (SPV)** means a position of importance or consequence to the public, from which a landform is observed and has relevance to the landform being assessed. Examples of viewpoints may include, but are not limited to:

- Stretches of highway or other public roads,
- Roadside rest stops,
- Recreation sites or campgrounds,
- Groups of homes,
- Regionally significant trail corridors,
- Lakes or marine areas,
- Settlements, or
- Tourism related commercial enterprises.

When evaluated from a **SPV**, the **Alteration** resulting from harvesting conducted by the **Applicable Agreement holder** will achieve the following consistent with the definitions and results and strategy identified in section 6.4.7:

- In a visual sensitivity class of 1 a result of retention or preservation will be achieved;
- In a visual sensitivity class of 2 a result of partial retention or retention will be achieved;
- In a visual sensitivity class of 3 or 4 a result of modification or partial retention will be achieved;
- In a visual sensitivity class of 5 a result of maximum modification or modification will be achieved.

### 6.4.7 Objectives Set By Government for Visual Quality with VQO

This result/strategy for established visual quality objectives applies to scenic areas in Bulkley FDU grandfathered through FRPA section 181 and to scenic areas in the Morice FDU grandfathered under FRPA 180 (c) and continued as objectives under GAR s17.

In this result and strategy:

“**Alteration**” means changing or making something different as a result of conducting harvesting or road construction by the **Applicable Agreement holder**.

A **Significant Public Viewpoint (SPV)** means a position of importance or consequence to the public, from which a landform is observed and has relevance to the landform being assessed. Examples of viewpoints may include, but are not limited to:

- Stretches of highway or other public roads,
- Roadside rest stops,
- Recreation sites or campgrounds,
- Groups of homes,
- Regionally significant trail corridors,
- Lakes or marine areas,
- Settlements, or
- Tourism related commercial enterprises.

1. When the **Applicable Agreement holder** harvests timber or constructs roads that are located in scenic areas where a Visual Quality Objective (VQO) is established, when evaluated from a **SPV**, the **Alteration** resulting from the size, shape and location of cut blocks and roads will be consistent with the established visual quality objective by following the strategy outlined in 2 and 3 below. The list below describes the established visual quality objectives specified in the BCGW for scenic areas identified on the FDU maps for the Bulkley and Morice.
  - a) *Preservation (P) VQO/VQC*: Will be, very small in scale and not easily distinguishable from the pre-harvest landscape.#
  - b) *Retention (R) VQO/VQC*: Will be, difficult to see, small in scale, and natural in appearance.#
  - c) *Partial Retention (PR) VQO/VQC*: Will be easy to see, small to medium in scale, and natural and not rectilinear or geometric in shape.#
  - d) *Modification (M) VQO/VQC*: Will be very easy to see, and is large in scale and natural in its appearance, or small to medium in scale but with some angular characteristics.#
  - e) *Maximum Modification (MM) VQO/VQC*: Will be very easy to see, and is very large in scale, rectilinear and geometric in shape or both.#
2. Prior to submitting a cutting permit or a road permit, the **Applicable Agreement holder** in all FDU’s will have a **QRP**:
  - a) Identify one or more **Significant Public Viewpoint (SPV)** for the specific **Alteration**.
  - b) Take pictures of the landform proposed for **Alteration** from these **SPV**’s.
  - c) Review current visual condition based on the landform in relation to the applicable visual quality objective.
  - d) Model the proposed **Alteration (s)** and ensure the proposed **Alteration** is consistent with the established visual quality objective.
  - e) Prescribe the shape, size and location of the **Alteration** and any retention requirements in the site plan to meet the established visual quality objectives specified in 1.
  - f) These steps (a to e) will be referred to as the “**plan**” in the steps below.
  - g) If the **plan** indicates that a lower visual class can be achieved (e.g. R can be achieved in PR objective) then the **plan** will be considered “low risk”.
  - h) For a **plan** that is not “low risk” there will be a further commitment to monitoring as follows.



- i. At least once during harvesting and road construction, the Applicable Agreement holder, in all FDUs, will monitor the harvesting activity to ensure the **Alteration** is consistent with the **plan**.
- ii. The **Applicable Agreement holder** will stop harvesting activities if there are any indications the **Alteration** will not be consistent with the **plan** and
- iii. the **Applicable Agreement holder** will revise the **Alteration** and/or update the **plan**, in order to be consistent with established visual quality objectives before resuming harvesting.

## 7 MEASURES

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

Definitions applicable to this FSP section:

**“Areas Disturbed”** means: contiguous areas of exposed mineral soil greater than 0.1 ha from **Applicable Agreement holders** primary forest activities.

**“Re-vegetated”** means the establishment of non-invasive plants over the **Areas Disturbed** such that an estimated overall percent foliage cover of 50% of the area is achieved. This would include natural fill-in of other non-invasive plants and includes seeding for purposes other than invasive plants.

**“Seeded”** means using Canada Common Number 1 Forage Mixture or better.

**“High Risk Area”** means areas where invasive plants are known to occur based on the provincial database system for invasive plants, areas identified by **Applicable Agreement holders** or FLNRORD staff, forest service roads, range tenures, private land, highways, established recreation sites, mine sites with exposed soil and a 500m buffer around those areas.

The measures for preventing the introduction or spread of invasive plants in all FDUs are:

1. On an annual basis the **Applicable Agreement holders** will train woodlands staff and longer term (greater than 1 year) woodlands contractors in:
  - a) Identifying invasive plants that exist or threaten to establish within the **Agreement holder’s** FDU and;
  - b) Best practices for preventing the spread of invasive plants.
    - (A) Summary of current listing of best practices at time of submission from best practices document (Best Practices for Preventing the Spread of Invasive Plants During Forest Management Activities, 2013, or replacement document):
      - i) Incorporate known invasive plant sites in the development plans and report new sites as they are discovered.
      - ii) Avoid infested sites for staging, parking, and log sorting, both in the bush and storage yards.
      - iii) Work in uninfested sites before moving to infested sites.
      - iv) Clean equipment before moving to a new work site or region.
      - v) Inspect and ensure fill and erosion control materials are free of invasive plants before transport and use.
      - vi) Minimize soil disturbance and maintain native vegetation.
      - vii) Revegetate disturbed sites as soon as possible
      - viii) Promptly control infestations resulting from forestry activities
2. On an annual basis, the **Agreement holder** will identify **High Risk Areas** and newly identified sites of invasive plants using the definition provided above;
3. Where the Agreement holder’s staff or contractors identify new sites of invasive plants, within any of the FDU’s, a record containing site location and plant species will be documented and reported using an accepted format (to the Invasive Alien Plant Program) such as the application “Report Invasives BC”.

**Additional measures specific to High Risk Areas:**

1. Any cutblocks or roads that overlap **High Risk Areas** will have;
  - a) That information identified in the site plan.
  - b) Where available, the species of invasive plant(s) identified.
  - c) The site plan will identify at a minimum two best practices to follow to prevent the spread of invasive plants. These best practices must be specific to any known species in the area.
2. Within **High Risk Areas, Areas Disturbed** and not reforested or planned to be reforested by the **Agreement holder** will be **seeded** within one growing season of completion of the harvest/construction to minimize seedbed available for colonization by invasive plants. This does not include any running road surfaces that will be maintained within a 5 year period.
3. Despite being reforested these **Areas Disturbed** must also be **seeded** within one growing season:
  - a) A 20m buffer (measured into the cut block) on accessible access structures.
  - b) Any inaccessible access structures will require the first 50m along the length of the feature to be seeded (measured from the last accessible point).
4. Monitor to ensure area is **Re-vegetated** within 2 growing seasons of completion of harvesting or road construction. If **Seeded** area is not **Re-vegetated**, the area will be re-**seeded** within 2 growing seasons of completion of harvesting or road construction.

**Additional measures for those areas not identified as High Risk Areas:**

1. Site plans will identify at a minimum one best practice to be used to reduce the likelihood of spreading invasive plants to this site.
2. For any best practice identified in the site plan, where seeding is required, **areas disturbed** and not reforested, will be **seeded** within one growing season following completion of harvest/construction and monitored to ensure area is **Re-vegetated** within 2 growing seasons of completion of harvesting or road construction. This does not include any running road surfaces that will be maintained within a 5 year period or access structures that are inaccessible. If **Seeded** area is not **Re-vegetated**, the area will be re-**seeded** within 2 growing seasons of completion of harvesting or road construction.

**Special circumstances – Approved Caribou Orders (UWR, WHA or other):**

1. The following measures do not supersede any specific seeding or other specific requirements specified in a caribou order. They are also modifications of the measures specified above. The intent is to reduce the interaction with predator bear or avoid attracting predators through competing ungulates.
  - a) Based on advice from a wildlife biologist a specific seed mix will be prescribed.
  - b) The prescribed seed mix will be used in approved Caribou areas if required to meet best practice requirements for invasive plants.
  - c) Where the prescribed seed mix is not available alternative best practices must be picked instead. In these circumstances, seeding will be limited to erosion control actions.

**7.2 Measures to Mitigate the Loss of Natural Range Barriers**

For the purposes of this measure:

**“Natural Range Barrier”** means a naturally occurring feature or a combination of naturally occurring features, including the following, that stops or significantly impedes livestock movement to and from an area adjacent to the feature or combination of features:

- a) a lake, pond, river, creek or wetland;
- b) a rock face;
- c) a talus slope;
- d) an embankment;
- e) vegetation;
- f) standing or non-standing timber.

“**Range Tenure**” means an existing or advertised agreement under the Range Act four months before the date that this **FSP** is submitted for approval.

As per section 48 of the **FRPA** and section 18 of the **FPPR** the following measures will be taken in all **FDU** areas that contain or are adjacent to **Range tenures**, to mitigate the effect of removing or rendering ineffective **Natural Range Barriers** by the **Applicable Agreement holder** :

1. On an annual basis, a 30 day period will be provided to **Range Tenure** holders for comment on proposed block plans.
2. Where the **Range Tenure** holder or other qualified person indicates the planned development will remove or render ineffective a natural range barrier the **Applicable Agreement holder** will:
  - a) reach an agreement with the **Range Tenure** holder on mitigation measures; and,
  - b) implement the agreed upon mitigation measure within one snow free season following harvesting, unless an
  - c) alternative timeframe is agreed upon by the **Applicable Agreement holder** and the **Range Tenure** holder;
  - d) if the **Applicable Agreement holder** and **Range tenure** holder cannot agree on mitigation measures, the **Applicable Agreement holder** will implement alternative mitigation measures based on review with applicable ministry staff. Examples of mitigation measures include, but not limited to, cattle guard, wing fencing and fence line establishment.
3. Where identified after harvesting or road construction that a **Natural Range Barrier** has been removed or rendered ineffective by the **Applicable Agreement holder’s**, the **Applicable Agreement holder** will follow the same process as per 2 above except the timeline will be within one snow free season following knowledge of that **Natural Range Barrier** break.

## 8 STOCKING REQUIREMENTS

### 8.1 Definitions:

“**Ecologically suitable**” means the preferred and acceptable species by BEC variant and site series listed in Appendix A. All ecologically suitable species listed are commercially valuable.

“**Lodgepole Pine leading stands**” means stands where pine is greater than or equal to 50 percent at establishment in terms of planted stems per ha.

“**Roadside screening**” means a zone not more than 30m in width as measured perpendicular to a road centerline and within 100m of a road running surface.

### 8.2 General Standards

For the purposes of section 16(1) of the Forest Planning and Practices Regulation, section 44(1) of that regulation will apply to every area where the **Applicable Agreement holder** of this **FSP** is required to establish a free growing stand.

For the purposes of section 16(3) of the Forest Planning and Practices Regulation, for each area where a holder of this **FSP** is required to establish a free growing stand

- The applicable stocking standards and applicable regeneration date referred to in section 44(1)(a) of the
- Forest Planning and Practices Regulation, and
- The applicable stocking standards and applicable free growing height referred to in section 44(1)(b) of the Forest Planning and Practices Regulation

Are subject to the Variations from General Standards in paragraph 8.3, as set out in Appendix A opposite the

Biogeoclimatic Site Series that applies to the Standard Unit.

### **8.2.1 Regeneration Date**

The Regeneration Date is 4 years after the commencement date of the cutblock. The Regeneration Date of 4 years may be extended to 7 years where natural ingress is used to achieve regeneration stocking standards.

### **8.2.2 Free Growing Date**

The late free growing date for all Standard Units will be 20 years after the commencement date of the cutblock.

### **8.2.3 Minimum Preferred Well Spaced Density at Free Growing**

The minimum preferred well-spaced density at free growing is equal to the minimum preferred well-spaced density at regeneration delay as described in Appendix A.

### **8.2.4 Minimum Preferred and Acceptable Well Spaced Density at Free Growing**

The minimum preferred and acceptable well-spaced density at free growing is equal to the minimum preferred and acceptable well-spaced density at regeneration delay as described in Appendix A.

### **8.2.5 Target Density at Free Growing**

The target density at free growing is equal to the target density at regeneration delay as described in Appendix A.

### **8.2.6 Clarification**

Engelmann Spruce (Se), White Spruce (Sw) and Stika Spruce (Ss) hybrids can be replaced with Interior Spruce (Sx) if the use of the Interior Spruce is consistent with the provincial seed transfer guidelines or the “Chief Forester’s Standards for Seed Use” when they are established.

### **8.2.7 Stems Retained at Harvest**

For any opening that is being managed as an even aged stand, any overstory deciduous or conifer stems that were retained at the time of harvest will be considered non-deleterious competition for the purpose of free growing assessment.

### **8.2.8 Site Series Complexes**

In a Standard Unit consisting of a site series complex;

1. The Target Stocking Standards, Minimum Preferred and Acceptable, Minimum Preferred, Minimum Inter-tree distance and Minimum Height will be those of the dominant site series, and
2. The preferred species for the Standard Unit will include all of the preferred species for all the site series comprising that unit, however potential crop trees will only be preferred or acceptable where they are ecologically suitable within the Standard Unit.

### **8.2.9 Multi Storied Stocking Standards**

Multi Storied Stocking Standards as per Appendix A may be applied to uneven-aged stands where partial cutting silviculture systems have been applied.

### 8.2.10 Enhanced Stocking Standards

Enhanced stocking standards as per Appendix A may be applied as provided for in

- *Forest Health Strategy – Nadina District 2016-2017*
- *Integrated Silviculture Strategy – Bulkley Timber Supply Area*
- *Interior Appraisal Manual (Enhanced Silviculture)* in effect at the date of cutting permit approval

For all enhanced standards the target stocking also equals the minimum planting density. The minimum planting density is 1800 for pine leading and 1600 for other species leading.

### 8.3 Variations from General Standards

Despite Paragraph 8.2, an **Applicable Agreement holder** of this **FSP** will apply the following stocking standards in the following circumstances:

#### 8.3.1 Riparian areas

Deciduous and brush species will not be considered deleterious competition to crop trees within the RMA of a riparian feature as identified in FPPR S. 47, 48, 49 or within 10 meters of a non-classified riparian feature.

#### 8.3.2 Roadside screening

Where **Roadside screening** is prescribed in a site plan, deciduous and brush species will not be considered deleterious competition to crop trees.

#### 8.3.3 Whitebark Pine added to acceptable species

To provide for effective species at risk management for Whitebark Pine, if not listed as preferred or acceptable, in an applicable stocking standard Whitebark Pine will be listed as acceptable where it is identified as occurring naturally in the stand.

9 SIGNATURES OF PERSONS REQUIRED TO PREPARE PLAN

<p>Signing Forester:</p> <p><i>"I certify that the work described herein fulfills the standards expected of a member of the Association of British Columbia Forest Professionals and that I did personally supervise the work."</i></p>	
	<p><b>Kyla Ahtiainen, RPF</b> May 3, 2024</p>

<p>Authorized Licensee Signature:</p>	
	<p><b>Janine Gervais, RPF</b> Forestry Manager Canadian Forest Products Ltd. Signing Authority</p>

**APPENDIX A: REGENERATION AND FREE GROWING STOCKING STANDARDS**

Single Storied Stocking Standards <sup>8,9,10</sup>															
BGC Classification			Regeneration Guide										Free Growing Guide		
			Species		Stocking – Well-Spaced Stems/Ha								Minimum inter-tree distance MITD (metres)	Min. Height	
Zone, Subzone and Variant	Site Series	Association	Preferred (p)	Acceptable (a)	Stocking Standard ID	Target	Enhanced Stocking Standard ID <sup>51</sup>	Target <sup>51</sup>	Enhanced Stocking Standard ID <sup>52</sup>	Target <sup>52</sup>	Minimum preferred and acceptable	Minimum preferred		Species	Ht (metres) <sup>8</sup>
ESSFmc	02 03	BIPI - Juniper - Cladonia BI-Huckleberry-crowberry	PI	Sx BI <sup>3</sup>	1051594	1000	n/a	n/a	n/a	n/a	500	400	2.0	PI/Other	1.2/ 0.6
ESSFmv3	02	BIPI - Crowberry - Cladina													
ESSFmc	01 05 06	BI – Huckleberry - Leafy Liverwort BI – Huckleberry - Thimbleberry BI - Oak fern - Heron's bill	BI Sx	PI	1051595	1200	1076050	1600	n/a	n/a	700	600	2.0	PI/Other	1.6/ 0.8
ESSFmv3	01 04 06	BI - Rhododendron - Feathermoss BI - Oak fern - Knight's plume Sxw - Huckleberry - Highbush Cranberry													
ESSFmc	04	BI - Huckleberry - Heron's Bill	PI Sx BI		1051596	1200	n/a	n/a	n/a	n/a	700	700	2.0	PI/Other	1.6/ 0.8
ESSFmc	07	BI - Devils Club- Lady fern	BI Sx	PI	1051598	1200	1076051	1600	n/a	n/a	700	600	1.6	PI/Other	1.6/ 0.8
ESSFmv3	05	BI - Devils Club – Rhododendron													
ESSFmc	08 09 10	BI - Valerian - Sickle moss BI – Horsetail - Glow moss BI – Horsetail - Leafy moss	BI Sx		1051599	1000	n/a	n/a	n/a	n/a	500	500	1.6	All	0.60
ESSFmk	01 04	BIHm - Twistedstalk BIHm - Oak fern	BI Sx	Hm PI	1051601	1200	n/a	n/a	n/a	n/a	700	600	2.0	PI/Other	1.6/ 0.8
ESSFmk	02	BI Pa - Cladonia	Pa PI	BI <sup>3</sup> Hm Sx	1051602	1000	n/a	n/a	n/a	n/a	500	400	2.0	PI/Other	1.2/ 0.6
ESSFmk	03	BIHm - Cladonia	Pa PI	BI <sup>3</sup> Hm Sx	1051603	1200	n/a	n/a	n/a	n/a	700	600	2.0	PI/Other	1.6/ 0.8
ESSFmk	05	BIHm - Devils Club - Lady Fern	BI Sx	Hm PI	1051604	1200	n/a	n/a	n/a	n/a	700	600	1.6	PI/Other	1.6/ 0.8
ESSFmk	06	BI - Horsetail - Leafy moss	BI Sx	Hm Ba	1051605	1000	n/a	n/a	n/a	n/a	500	400	2.0	All	0.80
ESSFmk	07	BI - Ladyfern - Horsetail	BI Sx	Ba	1051606	1000	n/a	n/a	n/a	n/a	500	400	1.6	All	0.80
ESSFmv3	03	BISb - Labrador tea	BI Sx	PI Sb	1051607	1000	n/a	n/a	n/a	n/a	500	400	2.0	PI/Other	1.2/ 0.6
ESSFmv3	07	BI - Horsetail - Feathermoss	BI Sx	PI	1051608	1000	n/a	n/a	n/a	n/a	500	400	1.6	PI/Other	1.2/ 0.6

Single Storied Stocking Standards <sup>8,9,10</sup>

BGC Classification			Regeneration Guide										Free Growing Guide		
Zone, Subzone and Variant	Site Series	Association	Species		Stocking – Well-Spaced Stems/Ha								Minimum inter-tree distance MITD (metres)	Min. Height	
			Preferred (p)	Acceptable (a)	Stocking Standard ID	Target	Enhanced Stocking Standard ID <sup>51</sup>	Target <sup>51</sup>	Enhanced Stocking Standard ID <sup>52</sup>	Target <sup>52</sup>	Minimum preferred and acceptable	Minimum preferred		Species	Ht (metres) <sup>8</sup>
ICH mc1	01 03 04	Hw – Step moss HwBl –Oak fern HwBl – Devil’s Club	Bl <sup>29</sup> Hw <sup>32</sup> SxB a <sup>50</sup>	Pl <sup>53</sup>	1051609	1200	n/a	n/a	n/a	n/a	700	600	2.0	Pl/Other	2.0/1.0
ICH mc1	02	HwPl – Kinnikinnick – Cladonia	Pl	Bl Hw <sup>32</sup>	1051610	1000	n/a	n/a	n/a	n/a	500	400	2.0	Pl/Other	1.4/ 0.8
ICH mc1	05	ActSx – Dogwood	Bl <sup>1,29</sup> Sx <sup>1,35</sup>		1051611	1200	n/a	n/a	n/a	n/a	700	600	2.0	All	1.0
ICH mc1	06	Hw – Azalea – Skunk cabbage	Sx <sup>1</sup> Ba <sup>50</sup> Bl <sup>1</sup>	Hw	1051612	1000	n/a	n/a	n/a	n/a	500	400	2.0	All	0.8
ICHmc2	01 03	Hw - Step moss HwCw – Oak fern	Hw <sup>32</sup> Sx Cw <sup>32</sup> Fd <sup>14,32</sup>	Ba <sup>50</sup> Bl <sup>29</sup> Pl <sup>53</sup>	1051613	1200	n/a	n/a	n/a	n/a	700	600	2.0	Pl/Lw/Fd/ Other	2.0/1.4/1.0
ICH mc2	02	HwPl - Kinnikinnick - Cladonia	Pl	Bl Hw <sup>32</sup> Ba <sup>50</sup>	1051614	1000	n/a	n/a	n/a	n/a	500	400	2.0	Pl/Other	1.4/ 0.8
ICHmc2	04	CwHw – Devil’s club – Oak fern	Sx Cw <sup>32</sup> Fd <sup>14,32</sup>	Hw <sup>32</sup> Ba <sup>50</sup> Bl <sup>29</sup> Pl <sup>53</sup>	1051615	1200	n/a	n/a	n/a	n/a	700	600	2.0	Pl/Lw/Fd/ Other	2.0/1.4/1.0
ICHmc2	05 06	Sx – Devil’s club – Lady fern ActSx - Dogwood	Sx <sup>1,35</sup> Cw <sup>32</sup>	Hw <sup>32</sup> Ba <sup>50</sup> Bl <sup>1,29</sup> Pl <sup>53</sup>	1051616	1200	n/a	n/a	n/a	n/a	700	600	2.0	Pl/Other	2.0/1.0
ICHmc2	07	CwSx – Horsetail – Skunk cabbage	Ba <sup>50</sup> Bl <sup>1,29</sup>	Hw <sup>1,32</sup>	1051617	1000	n/a	n/a	n/a	n/a	500	400	2.0	All	1.0
ICHmc2	08	SbSx – Scrub birch – Sedge	Sb <sup>1</sup> Sx <sup>1,35</sup>	Pl <sup>1,53</sup>	1051618	400	n/a	n/a	n/a	n/a	200	200	2.0	Pl/Other	1.4/ 0.8
ICHmc2	51	\$PIHw – Feathermoss	Pl <sup>53</sup> Hw	Bl <sup>28,29</sup> Sx <sup>28</sup>	1051619	1200	n/a	n/a	n/a	n/a	700	600	2.0	Pl/Other	2.0/1.0
ICHmc2	52 53	\$SxEp – Thimbleberry – Hazelnut \$AtEp – Dogwood	Hw <sup>32</sup> Sx Cw <sup>32</sup>	Ba <sup>50</sup> Bl <sup>29</sup> Pl <sup>53</sup>	1051620	1200	n/a	n/a	n/a	n/a	700	600	2.0	Pl/Other	2.0/1.0
ICHmc2	54	\$SxEp – Devil’s club	Sx Cw <sup>32</sup>	Hw <sup>32</sup> Ba <sup>50</sup>	1051621	1200	n/a	n/a	n/a	n/a	700	600	2.0	Pl/Other	2.0/1.0
SBSdk	01 05 06	Sxw - Spirea - Purple peavine Sxw - Spirea - Feathermoss Sxw - Twinberry - Coltsfoot	Pl Sx Fd Lw		1051622	1400	1076043	1600	1076054	1800	800	700	2.0	Fd/Pl/Other/ Lw	1.4/2.0/1.0/ 2.0
SBSdk	02	Pl - Juniper - Ricegrass	Pl	Sx	1051623	1000	n/a	n/a	n/a	n/a	500	400	2.0	Pl/Other	1.4/0.8
SBSdk	03	Pl - Feathermoss - Cladina	Pl Sx	Sb Fd Lw	1051624	1200	1076044	1600	1076055	1800	700	600	2.0	Pl/Lw/Fd/ Other	2.0/1.4/ 1.0
SBSwk3	05	Sb - Labrador tea													
SBSdk	04	Fd - Soopolallie - Feathermoss	Fd Pl Sx Lw		1051625	1200	1076045	1600	1076056	1800	700	700	2.0	Fd/Pl Lw/Other	1.4/2.0/1.0



Single Storied Stocking Standards <sup>8,9,10</sup>

BGC Classification			Regeneration Guide										Free Growing Guide		
Zone, Subzone and Variant	Site Series	Association	Species		Stocking – Well-Spaced Stems/Ha								Minimum inter-tree distance MITD (metres)	Min. Height	
			Preferred (p)	Acceptable (a)	Stocking Standard ID	Target	Enhanced Stocking Standard ID <sup>51</sup>	Target <sup>51</sup>	Enhanced Stocking Standard ID <sup>52</sup>	Target <sup>52</sup>	Minimum preferred and acceptable	Minimum preferred		Species	Ht (metres) <sup>8</sup>
SBSdk	07	Sxw - Horsetail	Sx	PI	1051626	1000	1076052	1600	n/a	n/a	500	400	1.6	PI/others	1.4/0.8
SBSdk	08	Act - Dogwood - Prickly rose	Sx	PI	1051627	1200	1076057	1600	n/a	n/a	700	600	1.6	PI/others	2.0/ 1.0
SBSdk	09	Sb - Creeping-snowberry - Sphagnum	PI Sb	Sx	1051628	400	n/a	n/a	n/a	n/a	200	200	1.6	PI/others	1.4/0.8
SBSdk	10	Sb - Soft-leaved sedge - Sphagnum	PI Sb Sx		1051630	400	n/a	n/a	n/a	n/a	200	200	1.6	PI/others	1.4/0.8
SBSmc2	01 05 06	Sxw - Huckleberry Sxw - Twinberry - Coltsfoot Sxw - Oakfern	PI Sx Fd Lw	BI <sup>3</sup>	1051631	1400	1076046	1600	1076058	1800	800	700	2.0	PI/Fd/Lw/ Other	1.6/ 1.4/ 2.0 /0.8
SBSmc2	02	PI - Huckleberry - Cladonia	PI	BI <sup>3</sup> Sx	1051632	1000	n/a	n/a	n/a	n/a	500	400	2.0	PI/Other	1.2/ 0.6
SBSmc2	03	SbPI - Feathermoss	PI Sx	BI <sup>3</sup> Sb Lw Fd	1051633	1200	1076047	1600	1076059	1800	700	600	2.0	PI/Other/Lw/ Fd	1.6/ 0.8/2.0/1.4
SBSmc2	07	Sxw - Scrub birch - Feathermoss	PI Sb Sx	BI <sup>3</sup>	1051634	1000	n/a	n/a	n/a	n/a	500	400	1.6	PI/Other	1.2/ 0.6
SBSmc2	09	Sxw - Devil's club	Sx BI	PI	1051635	1200	1076060	1600	n/a	n/a	700	600	1.6	PI/Other	1.6/ 0.8
SBSmc2	10	Sxw - Horsetail	Sx BI	PI	1051636	1000	n/a	n/a	n/a	n/a	500	500	1.6	PI/Other	1.2/ 0.6
SBSmc2	12	SbSxw - Scrub Birch - Sedge	Sb Sx	PI BI <sup>3</sup>	1051637	400	n/a	n/a	n/a	n/a	200	200	1.6	PI/Other	1.2/ 0.6
SBSwk3	01 04 06	Sxw - Oak fern Sxw - Huckleberry - Highbush Cranberry Sxw - Twinberry - Coltsfoot	PI Sx	BI <sup>3</sup> Lw Fd	1051638	1400	1076048	1600	1076061	1800	800	700	2.0	PI/Lw/Fd/ Other	2.0/1.4/1.0
SBSwk3	02	PI - Huckleberry - Cladina	PI	BI <sup>3</sup> Sx	1051639	1000	n/a	n/a	n/a	n/a	500	400	2.0	PI/Other	1.4/0.8
SBSwk3	03	SxwFd - Purple peavine	Fd PI Sx Lw		1051640	1200	1076049	1600	1076062	1800	700	700	2.0	Fd/PI/Other/ Lw	1.4/2.0/1.0/ 2.0
SBSwk3	07	Sxw - Devil's club	Sx	PI BI <sup>3</sup>	1051641	1200	1076063	1600	n/a	n/a	700	600	1.6	PI/Other	2.0/1.0
SBSwk3	08	Sxw - Horsetail	Sx	PI BI <sup>3</sup>	1051642	1000	n/a	n/a	n/a	n/a	500	400	1.5	PI/Other	1.4/0.8

Single Storied Stocking Standards <sup>8,9,10</sup>

BGC Classification			Regeneration Guide										Free Growing Guide		
Zone, and Variant Subzone	Site Series	Association	Species		Stocking Target – Well-Spaced Stems/Ha								Minimum inter-tree distance MITD (metres)	Min. Height	
			Preferred (p)	Acceptable (a)	Stocking Standard ID	Target	Enhanced Stocking Standard ID <sup>51</sup>	Target <sup>51</sup>	Enhanced Stocking Standard ID <sup>52</sup>	Target <sup>52</sup>	Minimum preferred and acceptable	Minimum preferred		Species	Ht (metres) <sup>8</sup>
ESSF mv3	08	BIPI Rododendron	PI <sup>34</sup> , Sx <sup>28</sup>	BI <sup>28</sup>	1070997	1000	n/a	n/a	n/a	n/a	500	400	2.0	PI/others	1.2/0.6

Footnote 1 Elevated microsites are preferred

Footnote 3 BI is preferred in riparian management areas, patch cut, shelterwood, and group selection silviculture systems. Where this situation occurs and BI is the only acceptable species MIN p = MIN pa

Footnote 8 Within the Bulkley FDU, for all openings less than 2 hectares in NAR that are within a Core Ecosystem, the minimum height is 0.

Footnote 9 For all openings less than 1 hectare in NAR that are part of a "minor salvage operation" the following standards apply

- There are no preferred or acceptable species.
- The target, minimum preferred and acceptable, and minimum preferred number of well-spaced stems is 0.
- The MITD is 0.
- The minimum height is 0

When one of these openings is combined with other "minor salvage operation" openings to form a contiguous combined opening of greater than 1 hectare then this footnote no longer applies and the stocking standards in the table above will apply.

Footnote 10 Where the procedures outlined in the Stocking and Free Growing Survey Procedures Manual are used to determine compliance with these standards, then the maximum number of well-spaced trees (M-Value) at any one plot is TSS/Plot Multiplier.

Footnote 14 Suitable for lower elevations

Footnote 28 Limited by moisture deficit

Footnote 29 Risk of heavy browse by moose

Footnote 32 Limited by growing-season frosts

Footnote 34 Risk of snow damage

Footnote 35 Use of resistant stock mitigates risk of spruce weevil damage. Use stock with the highest resistance rating for your area. See Ss Weevil Decision Tool (<http://www.for.gov.bc.ca/hre/for/gen/projects/spruceweevil>) and BC Journal of Ecosystems and Management 7(3): 45-49

Footnote 50 Restricted to sites where the species occurs as a major species in a pre-harvest natural stand

Footnote 51 Where enhanced stocking density is elected for an SU, 1600 stems per hectare or greater will be planted when spruce is the leading species

Footnote 52 Where enhanced stocking density is elected for an SU, 1800 stems per hectare or greater will be planted when pine is the leading species

Footnote 53 Pli will not be planted at >10% species composition.

**Multi Storied Stocking Standards<sup>8,9,10</sup>**

Standards ID	BGC Classification			Regeneration Guide													Free Growing Guide						
				Species		Stocking Mature Layer **			Stocking Pole Layer **			Stocking Sapling Layer **			Stocking Regeneration Layer **			MITD <sup>12</sup>	Min. Height				
				Preferred (p)	Acceptable (a)	Target	Minimum preferred and acceptable	Minimum preferred	Target	Minimum preferred and acceptable	Minimum preferred	Target	Minimum preferred and acceptable	Minimum preferred	Target	Minimum preferred and acceptable	Minimum preferred		Target	Minimum preferred and acceptable	Minimum preferred	Species	Ht (metres) <sup>8</sup>
						Well-Spaced Stems/Ha			Well-Spaced Stems/Ha			Well-Spaced Stems/Ha			Well-Spaced Stems/Ha								
1051671	ESSFmc	02	BIPI - Juniper - Cladonia	PI	Sx BI <sup>3</sup>	400	200	200	600	300	250	800	400	300	1000	500	400	2.0	PI/Other	1.2/ 0.6			
	03	BI - Huckleberry - Crowberry	400			200	200	600	300	250	800	400	300	1000	500	400							
1051672	ESSFmv3	02	BIPI - Crowberry - Cladina	BI Sx	PI	600	300	250	800	400	300	1000	500	400	1200	700	600	2.0	PI/Other	1.6/ 0.8			
	ESSFmc	01	BI - Huckleberry - Leafy Liverwort			600	300	250	800	400	300	1000	500	400	1200	700	600						
1051673	ESSFmc	05	BI - Huckleberry - Thimbleberry	PI Sx BI	PI	600	300	300	800	400	400	1000	500	500	1200	700	700	2.0	PI/Other	1.6/ 0.8			
	06	BI - Oak fern - Heron's bill	600			300	300	800	400	400	1000	500	500	1200	700	700							
1051674	ESSFmc	01	BI - Rhododendron - Feathermoss	BI Sx	PI	600	300	250	800	400	300	1000	500	400	1200	700	600	1.6	PI/Other	1.6/ 0.8			
	ESSFmv3	04	BI - Oak fern - Knight's plume Sxw - Huckleberry - Highbush Cranberry			600	300	250	800	400	300	1000	500	400	1200	700	600						
1051675	ESSFmc	04	BI - Huckleberry - Heron's Bill	PI Sx BI		600	300	300	800	400	400	1000	500	500	1200	700	700	2.0	PI/Other	1.6/ 0.8			
1051676	ESSFmc	07	BI - Devils Club- Lady fern	BI Sx	PI	600	300	250	800	400	300	1000	500	400	1200	700	600	1.6	PI/Other	1.6/ 0.8			
	ESSFmv3	05	BI - Devils Club - Rhododendron			600	300	250	800	400	300	1000	500	400	1200	700	600						
1051677	ESSFmc	08	BI - Valerian - Sickie moss BI - Horsetail - Glow moss BI - Horsetail - Leafy moss	BI Sx		400	200	200	600	300	300	800	400	400	1000	500	500	1.6	All	0.60			
1051678	ESSFmk	09	BIHm - Twistedstalk	BI Sx	Hm PI	600	300	250	800	400	300	1000	500	400	1200	700	600	2.0	PI/Other	1.6/ 0.8			
	04	BIHm - Oak fern	600			300	250	800	400	300	1000	500	400	1200	700	600							
1051679	ESSFmk	02	BI Pa - Cladonia	Pa PI	BI <sup>3</sup> Hm Sx	400	200	200	600	300	250	800	400	300	1000	500	400	2.0	PI/Other	1.2/ 0.6			
1051678	ESSFmk	03	BIHm - Cladonia	Pa PI	BI <sup>3</sup> Hm Sx	600	300	250	800	400	300	1000	500	400	1200	700	600	2.0	PI/Other	1.6/ 0.8			
1051679	ESSFmk	05	BIHm - Devils Club - Lady Fern	BI Sx	Hm PI	600	300	250	800	400	300	1000	500	400	1200	700	600	1.6	PI/Other	1.6/ 0.8			

Multi Storied Stocking Standards<sup>8,9,10</sup>

Standards ID	BGC Classification			Regeneration Guide													Free Growing Guide			
				Species		Stocking Mature Layer **			Stocking Pole Layer **			Stocking Sapling Layer **			Stocking Regeneration Layer **			MITD <sup>12</sup>	Min. Height	
				Preferred (p)	Acceptable (a)	Target	Minimum preferred and acceptable	Minimum preferred	Target	Minimum preferred and acceptable	Minimum preferred	Target	Minimum preferred and acceptable	Minimum preferred	Target	Minimum preferred and acceptable	Minimum preferred		Target	Minimum preferred and acceptable
Well-Spaced Stems/Ha			Well-Spaced Stems/Ha			Well-Spaced Stems/Ha			Well-Spaced Stems/Ha											
1051680	ESSFmk	06	Bl - Horsetail - Leafy moss	Bl Sx	Hm Ba	400	200	200	600	300	250	800	400	300	1000	500	400	2.0	All	0.80
1051681	ESSFmk	07	Bl - Ladyfern - Horsetail	Bl Sx	Ba	400	200	200	600	300	250	800	400	300	1000	500	400	1.6	All	0.80
1051682	ESSFmv3	03	BlSb - Labrador tea	Bl Sx	Pl Sb	400	200	200	600	300	250	800	400	300	1000	500	400	2.0	Pl/Other	1.2/ 0.6
1051683	ESSFmv3	07	Bl - Horsetail - Feathermoss	Bl Sx	Pl	400	200	200	600	300	250	800	400	300	1000	500	400	1.6	Pl/Other	1.2/ 0.6
1051684	SBSdk	01 05 06	Sxw - Spirea - Purple peavine Sxw - Spirea - Feathermoss Sxw - Twinberry - Coltsfoot	Pl Sx	Fd	600	300	250	800	400	300	1000	500	400	1200	700	600	2.0	Fd/Pl/Other	1.4/2.0/1.0
1051685	SBSdk	02	Pl - Juniper - Ricegrass	Pl <sup>11</sup>	Sx	400	200	200	600	300	250	800	400	300	1000	500	400	2.0	Pl/Others	1.4/0.8
1051686	SBSdk	03	Pl - Feathermoss - Cladina	Pl <sup>11</sup>	Sx Sb	600	300	250	800	400	300	1000	500	400	1200	700	600	2.0	Pl/Others	2.0/ 1.0
	SBSwk3	05	Sb - Labrador tea																	
1051687	SBSdk	04	Fd - Soopolallie - Feathermoss	Fd Pl Sx		600	300	300	800	400	400	1000	500	500	1200	700	700	2.0	Fd/Pl/Other	1.4/2.0/1.0
1051688	SBSdk	07	Sxw - Horsetail	Sx <sup>11</sup>	Pl	400	200	200	600	300	250	800	400	300	1000	500	400	1.6	Pl/Others	1.4/0.8
1051689	SBSdk	08	Act - Dogwood - Prickly rose	Sx <sup>11</sup>	Pl	600	300	250	800	400	300	1000	500	400	1200	700	600	1.6	Pl/Others	2.0/ 1.0
1051690	SBSdk	09	Sb - Creeping-snowberry - Sphagnum	Pl Sb	Sx	200	100	100	300	125	125	300	150	150	400	200	200	1.6	Pl/Others	1.4/0.8
1051691	SBSdk	10	Sb - Soft-leaved sedge - Sphagnum	Pl Sb Sx		200	100	100	300	125	125	300	150	150	400	200	200	1.6	Pl/Others	1.4/0.8
1051692	SBSmc2	01 05 06	Sxw - Huckleberry Sxw - Twinberry - Coltsfoot Sxw - Oakfern	Pl Sx	Bl <sup>3</sup>	600	300	250	800	400	300	1000	500	400	1200	700	600	2.0	Pl/Other	1.6/ 0.8
1051693	SBSmc2	02	Pl - Huckleberry - Cladonia	Pl <sup>11</sup>	Bl <sup>3</sup> Sx	400	200	200	600	300	250	800	400	300	1000	500	400	2.0	Pl/Other	1.2/ 0.6
1051694	SBSmc2	03	SbPl - Feathermoss	Pl Sx	Bl <sup>3</sup> Sb	600	300	250	800	400	300	1000	500	400	1200	700	600	2.0	Pl/Other	1.6/ 0.8

Multi Storied Stocking Standards<sup>8,9,10</sup>

Standards ID	BGC Classification			Regeneration Guide													Free Growing Guide			
	Zone Subzone and Variant	Site Series	Association	Species		Stocking Mature Layer **			Stocking Pole Layer **			Stocking Sapling Layer **			Stocking Regeneration Layer **			MITD <sup>12</sup>	Min. Height	
				Preferred (p)	Acceptable (a)	Target	Minimum preferred and acceptable	Minimum preferred	Target	Minimum preferred and acceptable	Minimum preferred	Target	Minimum preferred and acceptable	Minimum preferred	Target	Minimum preferred and acceptable	Minimum preferred		Species	Ht (metres) <sup>8</sup>
						Well-Spaced Stems/Ha			Well-Spaced Stems/Ha			Well-Spaced Stems/Ha			Well-Spaced Stems/Ha					
1051695	SBSmc2	07	Sxw - Scrub birch - Feathermoss	PI Sb Sx	BI <sup>3</sup>	400	200	200	600	300	250	800	400	300	1000	500	400	1.6	PI/Other	1.2/ 0.6
1051696	SBSmc2	12	SbSxw - Scrub Birch - Sedge	Sb Sx	PI BI <sup>3</sup>	200	100	100	300	125	125	300	150	150	400	200	200	1.6	PI/Other	1.2/ 0.6
1051697	SBSmc2	09	Sxw - Devil's club	Sx BI	PI <sup>13</sup>	600	300	300	800	400	400	1000	500	500	1200	700	600	1.6	PI/Other	1.6/ 0.8
1051698	SBSmc2	10	Sxw - Horsetail	Sx BI	PI <sup>13</sup>	400	200	200	600	300	300	800	400	400	1000	500	400	1.6	PI/Other	1.2/ 0.6
1051699	SBSwk3	01 04 06	Sxw - Oak fern Sxw - Huckleberry – Highbush Cranberry Sxw - Twinberry - Coltsfoot	PI Sx	BI <sup>3</sup>	600	300	250	800	400	300	1000	500	400	1200	700	600	2.0	PI/Other	2.0/1.0
1051700	SBSwk3	02	PI - Huckleberry - Cladina	PI <sup>11</sup>	BI <sup>3</sup> Sx	400	200	200	600	300	250	800	400	300	1000	500	400	2.0	PI/Other	1.4/0.8
1051702	SBSwk3	03	SxwFd - Purple peavine	Fd PI Sx		600	300	300	800	400	400	1000	500	500	1200	700	700	2.0	Fd/PI/Other	1.4/2.0/1.0
1051703	SBSwk3	07	Sxw - Devil's club	Sx <sup>11</sup>	PI BI <sup>3</sup>	600	300	250	800	400	300	1000	500	400	1200	700	600	1.6	PI/Other	2.0/1.0
1051704	SBSwk3	08	Sxw - Horsetail	Sx <sup>11</sup>	PI BI <sup>3</sup>	400	200	200	600	300	250	800	400	300	1000	500	400	1.6	PI/Other	1.4/0.8

Footnote 3 BI is preferred in riparian management areas, patch cut, shelterwood, and group selection silviculture systems. Where this situation occurs and BI is the only acceptable species MIN p = MIN pa

Footnote 8 Within the Bulkley FDU, for all openings less than 2 hectares in NAR that are within a Core Ecosystem, the minimum height is 0.

Footnote 9 For all openings less than 1 hectare in NAR that are part of a "minor salvage operation" the following standards apply

- There are no preferred or acceptable species.
- The target, minimum preferred and acceptable, and minimum preferred number of well-spaced stems is 0.
- The MITD is 0.
- The minimum height is 0

When one of these openings is combined with other "minor salvage operation" openings to form a contiguous combined opening of greater than 1 hectare then this footnote no longer applies and the stocking standards in the table above will apply.

- Footnote 10 Where the procedures outlined in the Stocking and Free Growing Survey Procedures Manual are used to determine compliance with these standards, then the maximum number of well-spaced trees (M-Value) at any one plot is TSS/Plot Multiplier.
- Footnote 11 Suitable on crest slope positions.
- Footnote 12 Minimum Intertree Distance (MITD) applies only to the Pole, Sapling and Regeneration Layers.
- Footnote 13 Suitable for upper elevations

**\*\*Stand Layer Definition**

- Mature trees  $\geq$  12.5 cm dbh
- Pole trees 7.5 cm to 12.4 cm dbh
- Sapling trees  $\geq$  1.3 m height to 7.4 cm dbh
- Regeneration trees  $<$  1.3 m height

**APPENDIX B: FPPR SEC 14(4) DECLARED AREAS**

**APPENDIX C: LIST OF SCENIC AREAS WITHOUT ESTABLISHED OBJECTIVES**

Scenic Area	VLI Polygon ID
Coles Lake/Tahtsa Reach	1952
Coles Lake/Tahtsa Reach	1953
Eastern Lake	1650
Francois Lake	1411
Francois Lake	1478
Francois Lake	1485
Francois Lake	1598
Francois Lake	1628
Francois Lake/Nadina River	1521
Gordeau Lake	1564
Gordeau Lake	1568
Gordeau Lake	1570
Gordeau Lake	1588
Helen Lake	1162
Hidden Lake	1144
Houston Comfor Trails	1246
Houston Comfor Trails	1251
Houston Comfor Trails	1267
McCloud Lake	1531
McCloud Lake	1532
McCloud Lake	1537
McCloud Lake	1542
McCloud Lake	1581
McCloud/Gordeau Lakes	1551
Morice Mtn/Houston Comfor Tr	1292
Parrott Lakes	1358
Parrott Lakes	1364
Parrott Lakes	1377
Parrott Lakes	1408
Parrott Lakes	1409
Parrott/Tschigass Lakes	1440
Silverthorne Lake/+	1257
Silverthorne Lake/+	1258
Silverthorne Lake/+	1276
Sweeney Lake	1809
Sweeney Lake/Tahtsa Reach	1820
Tahtsa Reach/Troitsa Lake	1943
Tahtsa Reach/Troitsa Lake	1954
Troitsa Lake/Tahtsa Reach	1923
Tschigass Lake	1434
Tschigass Lake	1450
Tschigass Lake	1460
Tschigass Lake	1462
Tschigass Lake	1463
Tschigass Lake	1471
Tschigass Lake	1472
Tschigass Lake	1507
Tschigass/Parrot Lakes	1504
Twinkle Lake	1654
Twinkle Lake	1700
Twinkle Lake	1706
Twinkle/Needle Lakes	1656
Twinkle/Needle Lakes	1853



**APPENDIX D: WILDFIRE RISK REDUCTION AREA**

Provided as an attachment in FSP tracker