



Western Forest Products Inc.
DEFINING A HIGHER STANDARD™

Timberlands
Management System



Forest Stewardship Plan Stillwater 2022-2027

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Preamble

This FSP encompasses lands within the traditional territories of several First Nations, as documented by evidence of historical use and the memories of their Elders. The FSP holder will

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share information and work collaboratively with Tla'amin First Nation, shíshálh First Nation and Klahoose First Nation

This Forest Stewardship Plan replaces a portion of the currently approved Stillwater & Port Alberni Forest Stewardship Plan (2017-2022), as maintained in the BC Government FSP Tracker system.

The Stillwater Forest Operation Forest Stewardship Plan (FSP) mainly encompasses TFL 39, Block 1, located in the vicinity of Powell River. This FSP applies to the tenures identified in Section 3.0.

FSPs are the key operational plan under the *Forest and Range Practices Act* (FRPA). FSPs identify broad areas called Forest Development Units (FDUs) where timber harvesting and road construction may occur, are subject to public review and comment, and must be approved by government before taking effect. FSPs do not show cutblocks and roads for approval and are generally in effect for a five-year term.

For each of the FRPA values and their Objectives set by government, such as wildlife and biodiversity, the FSP identifies legally binding results and strategies, measures and standards which will be required to be implemented by the holder of the FSP in the FDU. Results and strategies are consistent, to the extent practicable, with government Objectives set out in land use plans and sub-unit plans such as approved landscape unit plans.

This FSP includes two FDUs. FDU 1 comprises TFL 39 Block 1. FDU 2 includes areas surrounded by, but not within TFL 39 Block 1. Areas within FDU 2 outside of TFL39 Block 1 are included in order to provide road access to other portions of the TFL without having to work under a separate FSP. The entire area is within the Sunshine Coast Forest District

The WFP Stillwater 2022-2027 FSP with maps and appendices can be found at <http://www.westernforest.com/sustainability>.

More information on FSPs is available at: <https://www2.gov.bc.ca/gov/content/industry/forestry/managing-our-forest-resources/forest-stewardship-plans>. Comments should be directed to:

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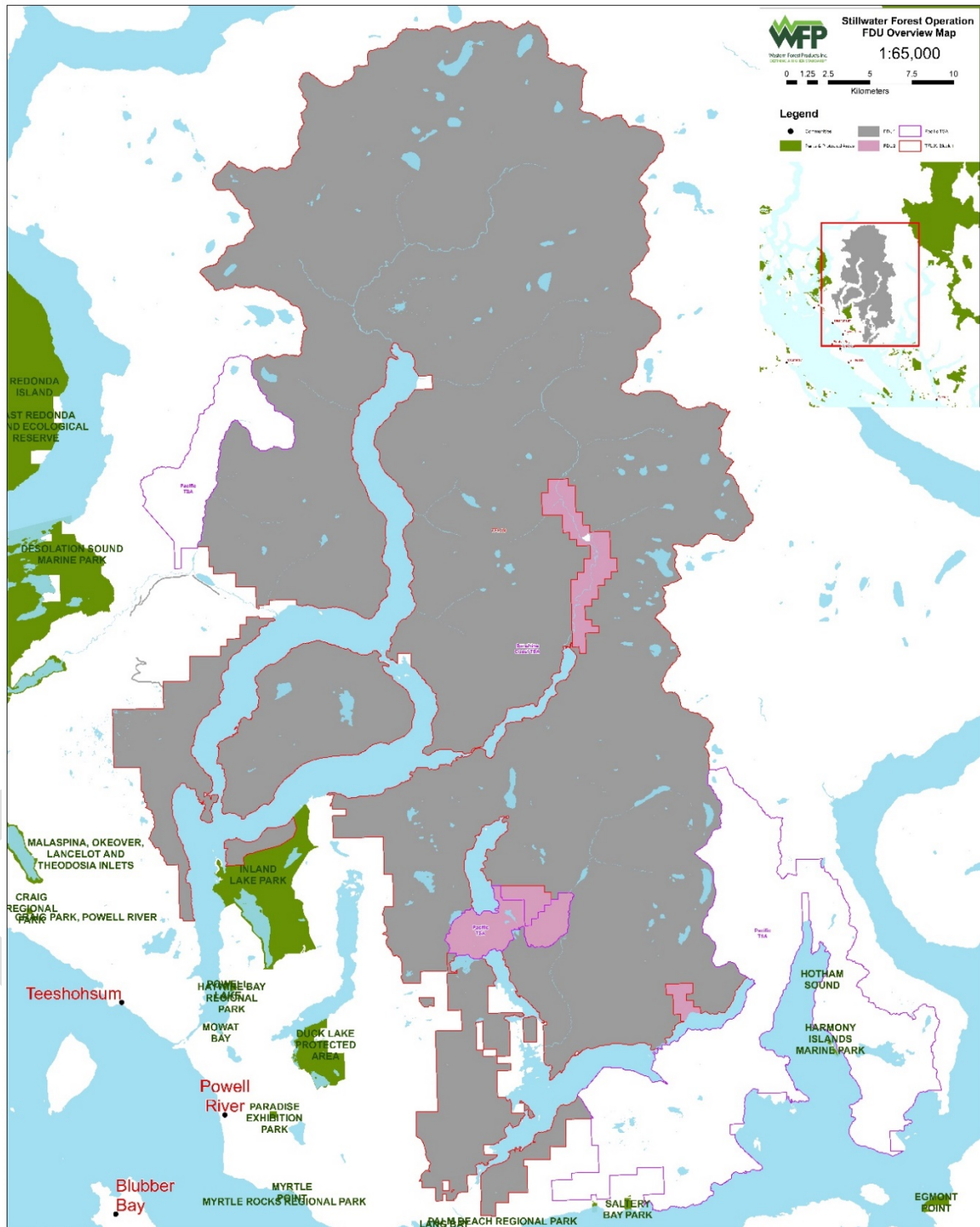
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Figure 1 – Stillwater Forest Operation – FSP Forest Development Units – Overview Map



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1 Date of Submission

Insert date of submission here.

2 Interpretation and Definitions

2.1 Interpretation

Results or **Strategies** in this Forest Stewardship Plan (**FSP**) refer to the *Forest and Range Practices Act*, Forest Planning and Practices Regulation (**FPPR**) and the Government Actions Regulation (**GAR**) as they were on the date this **FSP** was submitted for approval.

The word “section” or “subsection” or the abbreviations “s.” or “ss.” is used to indicate a numbered section or sections of the indicated Act, Regulation, or Order. An **FSP** section or subsection may also be referred to with “s.” or “ss.” Where no other reference is indicated, “s.” or “ss.” refers to a section or subsection under the current header.

Sections of Orders, Notices, and Objectives are embedded within Objective Source or Background Information tables in this **FSP** for convenience only. If there is a discrepancy between this **FSP** text and a quoted section, the text in the Act, Regulation, Order, or Notice prevails, and should be used in preference to this **FSP** text. Where contained in this **FSP**, the preamble, objective sources and background information is not part of this **FSP** or **Results** or **Strategies**.

Certain terms are intentionally in bold type within the text, to add emphasis and to indicate the specific definition listed below (i.e. “holder” may indicate a holder of a different forest stewardship plan, while “**Holder**” indicates a holder of this **FSP**).

2.2 Definitions:

General definitions that apply to the entire text of the **FSP** are listed here. Where definitions appear under a section or subsection header, those definitions apply in that section or subsection.

“**FDU**” means forest development unit;

“**FPC**” means the *Forest Practices Code of British Columbia Act*.

“**FPPR**” means the Forest Planning and Practices Regulation.

“**FRPA**” means the *Forest and Range Practices Act*.

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

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

“**Holder**” means a holder of an agreement under the *Forest Act*, and a signatory to this **FSP**.

“**Licensee**” means an agreement holder under the *Forest Act*, that is a holder of this **FSP**.

“**Measure**” means obligations required by **FPPR** ss.17-18.

“**Primary Forest Activity**” has the same meaning as in **FPPR** s.1(1).

“**Result**” and “**Strategy**” have same meanings as in **FPPR** s.1(1).

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“Road” has the same meaning as in **FPPR** s1.(1).

“Stocking Standards” means obligations required by **FPPR** s.16

3 Application of this FSP

3.1 Licences and Licensees (FRPA s.3(4))

1. This **FSP** applies to each cutting permit and road permit issued or granted to the **Licensees** holding this **FSP**:
 - a. after the **FSP** term commences;
 - b. within **FDUs**; and
 - c. under or in respect of the following licences:

Licensee	Licence
Western Forest Products Inc.	Tree Farm Licence 39 - Block 1 (includes TLs within the TFL)

3.2 Application of this FSP to FPC Obligations (FRPA ss.197(4-5, 7) and FPPR ss.14(1)(d-e))

1. In the **FDUs**, this **FSP** applies:
 - a. to all cutblocks and roads subject to cutting permits issued to the **Holder** under the licences referred to in Paragraph 3.1 on or after the date approval of this **FSP**;
 - b. to a cutblock or road permit subject to a cutting permit issued to the holder under a licence referred to in Paragraph 3.1 before this **FSP** term commences, whether the cutting permit is still in effect or not, for which the **Holder** gives written notice to the minister responsible for the Forest Act after this **FSP** term commences, effective the date, and to the extent, specified in the notice;
 - c. to a road, or portion thereof, subject to a road permit in effect before the **FSP** term commences for which the **Holder** gives written notice to government after this **FSP** term commences, effective the date, and to the extent, specified in the written notice;
 - d. where the **Holder** may elect to, for the purpose of changes to the total area under prescription of cutblock, including wildlife tree patches, under **FRPA** s.197(4) or (7) within the **FDUs** as specified by **FPPR** s.14(1)(d), make changes to wildlife tree patches consistent with s.6.8 of this **FSP**; and
 - e. for a cutblock that has not been declared free growing that is within the **FDU** the **Holder** may elect to, for the purpose of otherwise specifying stocking standards, under **FRPA** ss.197(4), (5) or (7) within an **FDUs** as specified by **FPPR** ss.14(1)(d) or (e) and where it is ecologically appropriate, to have stocking standards approved under this **FSP** apply to standards units within cutblocks from previous plans. For each standards unit, this election is to be made prior to a free growing declaration.

4 Term of this FSP (FRPA ss.6(1)(a) and (b))

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1. The term of this **FSP** is 5 years.
2. This **FSP** may be terminated earlier if the licensee elects to replace it with another approved FSP, approved Forest Landscape Plan, or may be extended pursuant to **FRPA** and the regulations thereunder.
3. The term of this **FSP** commences on the date specified by the minister or person delegated under **FRPA** s.120.1.

5 **FSP Map and Forest Development Units (FDUs) (FRPA Act s.5(1)(a), FPPR s.14)**

5.1 **Boundaries of the FDUs**

1. The boundaries of **FDU 1** and **FDU 2** under this **FSP** shown on the **FSP** map (Figure 1), are deemed to follow the boundaries of TFL 39 Block 1 and to the extent that there is an inconsistency between the **FSP** Map and the boundaries of TFL Block 1, the boundaries of TFL 39 Block 1.

5.2 **New Forest Development Units (FRPA s.5(1)(a) and FPPR s.14(1)(a))**

1. The **FSP** map (Figure 1) shows the **FDU** boundaries.

5.3 **Forest Development Units in Effect on Date of Submission of this FSP (FRPA ss.7(1.1) and (2) and 5(1)(a) and FPPR s.14(1)(b))**

1. The **FSP** map shows the **FDUs** that are in effect at the time of its submission for approval.

5.4 **Areas to Which s.196(1) of the Act Apply (FRPA s.196(1); FPPR s.14(1)(c))**

1. Not applicable.

5.5 **Designations in Effect Four Months Before Submission of This FSP (FPPR s.14(2))**

1. This **FSP** identifies designations and other areas listed in **FPPR** s.14(2) that were in effect 4 months before this **FSP** was submitted for approval.

5.6 **Areas Considered to be Approved (FRPA ss.196(1) and (2) and FPPR s.14(1)(c) and s.110)**

1. Not applicable.

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5.7 Areas in Which Commercial Timber Harvesting is Prohibited by Another Enactment (FPPR s.14(3)(i))

1. See s.6.7.5 of this **FSP**.

5.8 Areas Subject to Cutting Permit or Road Permit (FPPR s.14(3)(j))

1. See the **FSP** map for active cutting permit and road permit areas.
2. Blanket CPs issued for the purposes of salvage are listed in the following table:

Tenure	CP
TFL 39-1	50, 52

5.9 Declared Areas (FPPR s.14(4))

1. See the **FSP** map for areas declared under **FPPR** s.14(4).

6 FRPA Values and Results or Strategies

6.1 Soils

OBJECTIVE SOURCE: SOILS		
Type	Source	Effective Date of Objective
BC Reg. 14/2004	FPPR s.5	January 31, 2004
<i>The objective set by government for soils is, without unduly reducing the supply of timber from British Columbia's forests, to conserve the productivity and the hydrologic function of soils.</i>		

6.1.1 Soil Disturbance Limits

Exemption from Result or Strategy – FPPR s.5

1. For the purposes of **FPPR** s.12.1(1), the **Holder** undertakes to comply with **FPPR** s.35, and is exempt from specifying an intended **Result** or **Strategy**.

6.1.2 Permanent Access Structures Limits

Definitions for the Purposes of s.6.1.2

“**Cutblock**” means the total area specified in a cutblock site plan.

Exemption from Result or Strategy – FPPR s.5

1. For the purposes of **FPPR** s.12.1(1), the **Holder** undertakes to comply with **FPPR** s.36, and is exempt from specifying an intended **Result** or **Strategy**.

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6.2 Timber

OBJECTIVE SOURCE: TIMBER		
Authority	Category/Source	Effective Date of Objective
BC Reg. 14/2004	FPPR s.6	January 31, 2004
<p><i>The objectives set by government for timber are to</i></p> <ol style="list-style-type: none"> <i>maintain or enhance an economically valuable supply of commercial timber from British Columbia's forests,</i> <i>ensure that delivered wood costs, generally, after considering the effect on them of the relevant provisions of this regulation and of the Act, are competitive in relation to equivalent costs in relation to regulated primary forest activities in other jurisdictions, and</i> <i>ensure that the provisions of this regulation and of the Act that pertain to primary forest activities do not unduly constrain the ability of a holder of an agreement under the Forest Act to exercise the holder's rights under the agreement.</i> 		

Exemption from Result or Strategy – FPPR s.6

- In accordance with **FPPR s.12(8)**, the **Holder** is exempt from the requirement to prepare a **Result** or **Strategy** for an objective set by government for timber in **FPPR s.6**.

6.3 Wildlife

OBJECTIVE SOURCE: WILDLIFE		
Authority	Category/Source	Effective Date of Objective
BC Reg. 14/2004	FPPR s.7	January 31, 2004
<ol style="list-style-type: none"> <i>The objective set by government for wildlife is, without unduly reducing the supply of timber from British Columbia's forests, to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas, for</i> <ol style="list-style-type: none"> <i>the survival of species at risk,</i> <i>the survival of regionally important wildlife, and</i> <i>the winter survival of specified ungulate species.</i> <i>A person required to prepare a forest stewardship plan must specify a result or strategy in respect of the objective stated under subsection (1) only if the minister responsible for the Wildlife Act gives notice to the person of the applicable</i> <ol style="list-style-type: none"> <i>species referred to in subsection (1), and</i> <i>indicators of the amount, distribution and attributes of wildlife habitat described in subsection (1).</i> <i>If satisfied that the objective set out in subsection (1) is addressed, in whole or in part, by an objective in relation to a wildlife habitat area or an ungulate winter range, a general wildlife measure, or a wildlife habitat feature, the minister responsible for the Wildlife Act must exempt a person from the obligation to specify a result or strategy in relation to the objective set out in subsection (1) to the extent that the objective is already addressed.</i> 		

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4. On or after December 31, 2004, a notice described in subsection (2) must be given at least 4 months before the forest stewardship plan is submitted for approval.

6.3.1 Species at Risk

OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	Category/Source	Effective Date of Objective
BC Reg. 17/2004 s.11(1) BC Reg. 582/2004 s.13(1)	Order – Categories of Species at Risk (2004) Order – Categories of Species at Risk (2011 Update)	May 6, 2004 July 18, 2011
BC Reg. 14/2004 s.7(2)	Notice - Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of the Species at Risk in the Sunshine Coast Forest District	March 2, 2006

Definitions for the Purposes of Results or Strategies in s.6.3.1.

“**DSC s.7 Notice**” means the “Notice - Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of the Species at Risk in the Sunshine Coast Forest District (2006)”.

“**Non-contributing landbase (NCLB)**” means that portion of the forest management land-base assumed to be unavailable for harvesting, given objectives for all forest values.

6.3.1.1 Northern Goshawk (*Accipiter gentilis laingi*)

OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	Category/Source	Effective Date of Objective
BC Reg. 582/2004	Order – Wildlife Habitat Areas #2-671 to 2-678	May 22, 2020
<p><u>Schedule 1 - General Wildlife Measures</u></p> <p>Access</p> <ol style="list-style-type: none"> Do not construct roads, trails, landings or stream crossings in the WHA. GWM 1 does not apply if construction of Road Sections C39W-A and C39W-B under Road Permit R21584 is required through WHA 2-676 for the purposes of accessing timber beyond the boundaries of the WHA.¹ <p>Harvesting and Silviculture</p>		

¹ Road Permit R21584 is not held by Western Forest Products and the specified road sections are not covered by this FSP. This GWM is included for the completeness of the order.

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OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	Category/Source	Effective Date of Objective
<p>3) Do not conduct timber harvesting or silviculture treatments, except as specified in GWMs 4 and 5.</p> <p>4) GWM 3 does not apply where:</p> <ul style="list-style-type: none"> a) guyline anchors and tailholds are required to facilitate worker safety during adjacent timber harvesting; b) trees are felled in accordance with Section 2(3) of the Forest Planning and Practices Regulation; or. c) Silviculture treatments are required in legacy blocks to establish a free growing stand as per Section 29(2) of the Forest and Range Practices Act. <p>5) Trees felled in accordance with GWM 4 that fall within a WHA must be retained on-site to provide coarse woody debris.</p> <p><i>Pesticides</i></p> <p>6) Do not use pesticides, except for herbicides to control invasive plants or noxious weeds, if applied by:</p> <ul style="list-style-type: none"> a) Stem injection, cut and pain, foliar wipe or other direct plant application; or b) Spot spraying individual plants or a cluster of plants if direct plant application is not practicable. 		

Exemption from Result or Strategy – “Order – Wildlife Habitat Areas #2-671 to 2-678”

- General Wildlife Measures have been established and the wildlife habitat area amount in the **DSC s.7 Notice** has been met for this species; therefore, the **Holder** of this **FSP** is exempt under **FPPR s.7(3)**, from the obligation to specify a **Result** or **Strategy** for Northern Goshawks.

6.3.1.2 Grizzly Bear (*Ursus arctos*)

OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	Category/Source	Effective Date of Objective
BC Reg. 582/2004	Order – Wildlife Habitat Areas #2-206 to 210, 2-212 to 229, 2-232 to 238, 2-240, 2-242 to 249, 2-298 to 302, Sunshine Coast Forest District ²	December 4, 2006
<p><u>Schedule 1 - General Wildlife Measures</u></p> <p><i>Access</i></p> <ul style="list-style-type: none"> - Do not construct roads, trails, landings. An exemption would not be required for road maintenance, to address safety concerns, or for reconstruction and deactivation on existing roads within the WHA; nor to allow tailholds in the WHA associated with landings adjacent to the WHA boundary/ 		

² There are no WHAs within the area under this FSP, however this order exempts FSP holders from specifying results or strategies for Grizzly Bear.

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OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	Category/Source	Effective Date of Objective
<p>Where roads in the WHA are permanently deactivated, proponents must notify the Ministry of Environment Delegated Decision Maker.</p> <p><i>Harvesting</i></p> <ul style="list-style-type: none"> No timber harvesting, including salvage, should be carried out within the WHA. Exemptions would only normally be considered to restore or enhance degraded habitat and to ensure windfirmness. An exemption would not be required to meet worker safety concerns (e.g. danger tree felling in the WHA) for harvesting/silviculture in cutblocks adjacent to the WHA. <p><i>Silviculture & Pesticides</i></p> <ul style="list-style-type: none"> Do not use pesticides. When reforesting areas within the WHA use reduced stocking standards as outlined in the document titled, Grizzly Bear Habitat In Managed Forests: Silviculture Treatments to Meet Habitat and Timber Objectives. <p><i>Range³</i></p> <ul style="list-style-type: none"> Plan livestock grazing to maintain forage value for Grizzly Bears and the minimum potential for conflicts. Do not place livestock attractants within WHA Incorporate management strategies in the range use plan to reduce contact and competition between livestock and Grizzly Bears. Consider salt placement, alternate water development, drift fencing or altering periods of livestock use. 		

Exemption from Result or Strategy – “Order – Wildlife Habitat Areas #2-206 to 210, 2-212 to 229, 2-232 to 238, 2-240, 2-242 to 249, 2-298 to 302, Sunshine Coast Forest District ”

- General Wildlife Measures have been established and the wildlife habitat area amount in the **DSC s.7 Notice** has been met for this species; therefore, the **Holder** of this **FSP** is exempt under **FPPR s.7(3)**, from the obligation to specify a **Result** or **Strategy** for Grizzly Bears.

6.3.1.3 Marbled Murrelet (*Brachyramphus marmoratus*)

OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	Category/Source	Effective Date of Objective
BC Reg. 14/2004 s.7(2)	Notice – Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of Marbled Murrelet (<i>Brachyramphus marmoratus</i>)	December 2, 2021
<p>The notice includes indicators of the amount, distribution and attributes of wildlife habitat required for the survival of the species at risk outlined in Schedule 1.</p>		

³ There are no range authorizations within the area under this FSP. This section is included only for completeness of the order.

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OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	Category/Source	Effective Date of Objective
<p><i>Suitable habitat within approved Wildlife Habitat Areas is included in the indicators of the amount, distribution and attributes for each of the species outlined in Schedule 1. As per section 7(3) of the Forest Planning and Practices Regulation, forest tenure holders are exempt from the obligation to specify a result or strategy in relation to the objective set out in section 7(1) of the Forest Planning and Practices Regulation, for approved Wildlife Habitat Areas.</i></p> <p>SCHEDULE 1</p> <p>1) Marbled Murrelet (<i>Brachyramphus marmoratus</i>)</p> <p>Amount:</p> <p>1. Table 1 provides the minimum amount of Marbled Murrelet nesting habitat (Suitable Habitat) to be maintained within both Marbled Murrelet Wildlife Habitat Areas (WHAs) and Old Growth Management Areas (OGMAs) combined and the minimum amount of Suitable Habitat to be maintained within Marbled Murrelet WHAs within Forest Districts.</p> <p>Distribution:</p> <p>1. Table 2 provides the minimum amount of Suitable Habitat to be maintained within both Marbled Murrelet WHAs and OGMAs combined and the minimum amount of Suitable Habitat to be maintained within Marbled Murrelet WHAs within landscape unit aggregates.</p> <p>2. Table 3 provides the target and minimum amount of Suitable Habitat to be maintained within both Marbled Murrelet WHAs and OGMAs combined and the minimum amount of Suitable Habitat to be maintained within Marbled Murrelet WHAs within landscape unit portions.</p>		

Definitions for the purposes section 6.3.1.3 of this FSP

“**OGMA**” means Old Growth Management Area.

“**Suitable Habitat**” means Marbled Murrelet nesting habitat, as identified in the Notice – Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of Marbled Murrelet (*Brachyramphus marmoratus*)

“**WHA**” means Wildlife Habitat Area

Result or Strategy – “Notice – Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of Marbled Murrelet (*Brachyramphus marmoratus*)”

1. As a **Result** or **Strategy**, for the purposes of the “Notice – Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of Marbled Murrelet (*Brachyramphus marmoratus*)”, each **Holder** will maintain, for the **FDUs**, at least a proportional amount of **Suitable Habitat** to meet the area targets to be maintained in **WHAs** and **OGMAs** listed in Schedule 1 of the “Notice – Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of Marbled Murrelet (*Brachyramphus marmoratus*)”; and

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OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	Category/Source	Effective Date of Objective
Land Act s.93.4	Order for the Recovery of Marbled Murrelet (<i>Brachyramphus marmoratus</i>)	December 2, 2021
<p>3. Objectives for Marbled Murrelet nesting habitat</p> <p>(1) <i>Maintain Suitable Habitat as follows:</i></p> <p>(a) <i>For each:</i></p> <p style="padding-left: 40px;"><i>landscape unit aggregate in the order area:</i></p> <p style="padding-left: 80px;"><i>Retain all timber in an amount equal to or greater than the minimum habitat threshold listed in Column "A" in Table 1 in Schedule "7".</i></p> <p>(b) <i>For each:</i></p> <p style="padding-left: 40px;"><i>landscape unit portion in the order area:</i></p> <p style="padding-left: 80px;"><i>Retain all timber in an amount equal to or greater than the suitable habitat target listed in Column "A" in Table 2 in Schedule "7";</i></p> <p>(2) <i>Despite subsection (1)(b), the amount of timber that must be retained within a landscape unit portion in the West and North Vancouver Island and Southern Mainland Coast Conservation Regions may be less than the suitable habitat target listed in Column "A" in Table 2 in Schedule "7", provided that:</i></p> <p style="padding-left: 40px;"><i>The amount of timber retained is equal to or greater than the minimum habitat threshold listed in Column "B" in Table 2 in Schedule "7".</i></p> <p>(3) <i>Despite subsection (1)(a), Suitable Habitat polygons shown in Schedule "1 to 6" in the East Vancouver Island Conservation Region may be harvested, provided that harvesting is required for road access, other infrastructure, or to address safety concerns, where there is no practicable alternative.</i></p> <p>(4) <i>Variance from the Objectives in Sections 3.(1) to 3.(3) for the Suitable Habitat polygons shown in Schedule "1 to 6" may be allowed, provided that:</i></p> <p>(a) <i>A Qualified Professional:</i></p> <p style="padding-left: 40px;"><i>(i) Completes a field assessment that identifies the characteristics of Suitable Habitat using established standards; and</i></p> <p style="padding-left: 40px;"><i>(ii) Confirms the alteration will result in no net loss or functional loss of Suitable Habitat.</i></p> <p>(b) <i>A Regional Ministry of Forests, Lands, Natural Resource Operations and Rural Development biologist approves the alteration of the Suitable Habitat polygons.</i></p>		

Result or Strategy – "Order for the Recovery of Marbled Murrelet (*Brachyramphus marmoratus*)"

2. As a **Result** or **Strategy**, for the purposes of the "Order for the Recovery of Marbled Murrelet (*Brachyramphus marmoratus*)", each **Holder** adopts:
- For a proportional amount represented by each **FDU**, Objectives 1 and 2 in Schedule 3 of the "Order for the Recovery of Marbled Murrelet (*Brachyramphus marmoratus*)"; and
 - Objectives 3 and 4 in Schedule 3 of the "Order for the Recovery of Marbled Murrelet (*Brachyramphus marmoratus*)".

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6.3.1.4 Coastal Tailed Frog (*Ascaphus truei*)

OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK			
Authority	Category/Source	Effective Date of Objective	
BC Reg. 14/2004 s.7(2)	Notice - Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of the Species at Risk in the Sunshine Coast Forest District	March 2, 2006	
5) Coastal Tailed Frog (<i>Ascaphus truei</i>)			
Amount:			
1. 30 ha of suitable habitat not exceeding an impact to the mature timber harvesting landbase of 20 ha.			
Distribution:			
1. The amount of habitat referenced above must be distributed to provide:			
• areas of suitable habitat of the size and spatial distribution identified in the species account for Coastal Tailed Frog in the Accounts and Measures for Managing Identified Wildlife (Identified Wildlife Management Strategy Version 2004).			
2. The areas described above are located within the biogeoclimatic units and preferred elevations identified in the species account for Coastal Tailed Frog in the Accounts and Measures for Managing Identified Wildlife (Identified Wildlife Management Strategy Version 2004).			
Attributes:			
Size: Approximately 20ha (depending on number and length of suitable stream reaches. Larger areas may be appropriate in watersheds with unstable terrain (class 4-5). Areas should include at least two streams or stream reaches (ie., S4 to S6) with previous detections of tailed frogs. The area should include a 30m core area, buffered by a 20m management zone on both side of occupied stream reaches.			
Habitat Attributes: Tailed frog aquatic habitats are generally characterized by year round flow, non-fish bearing (S4 to S6), intermediate gradient (>2,5%), coarse substrates (>6.4cm), stable channel beds and forest cover (generally associated with structural stage S6 or S7). Retain 100% of forest cover within the core area. Within the management zone maintain 70% basal area with appropriate structure to maintain riparian forest, important structural elements (e.g, coarse wood debris,) water quality and temperature (5 to 18 degrees), and naturally dispersed water flows.			
Elevation: From sea level to 2140m.			
Coastal Tailed Frog Potential Habitat Proportional Amount Calculation			
Geographic Area	Proportion	Proportional Area (ha)	Proportional THLB (ha)
TFL 39 Block 1 & FDU 2 combined	0.073667	2.2	1.5

Result or Strategy – DSC s.7 Notice

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- As a **Result or Strategy**, for the purposes of the **DSC s.7 Notice**, the **Holder** will maintain a proportional amount of suitable habitat required in the **DSC s.7 Notice** which will update as new WHAs that are subsequently established are subtracted from the proportional amount. The proportional amount of suitable habitat required in the **DSC s.7 Notice** is 2.2 ha total, of which 1.5 ha is in the timber harvesting land base, on the effective date of this **FSP**.

6.3.2 Winter Survival of Specified Ungulate Species

6.3.2.1 Winter Survival of Specified Ungulate Species - Mountain Goat (*Oreamnos americanus*)

OBJECTIVE SOURCE: WILDLIFE: WINTER SURVIVAL OF SPECIFIED UNGULATE SPECIES		
Authority	Category/Source	Effective Date of Objective
BC Reg. 582/2004 ss.9(1), 9(2) and 12(1)	Order – Ungulate Winter Range #U-2-004 – Mountain Goat TFL 39, Block 1 (Sunshine Coast Forest District)	August 11, 2010
<p><i>General Wildlife Measures</i></p> <ol style="list-style-type: none"> <i>Timber harvesting and road construction is not permitted within UWR units: DAN 04, EL 03, EL 04, TI 02, GI 03, GL 04, PL 10B, PL 05, PL 06, PL 08, PL 09, PL 12, POW 01, POW 02, TH 07, TH 08A, TH 09; except if road access through GI 03 is required to access timber beyond the UWR unit.</i> <i>GMW 1 does not apply if:</i> <ol style="list-style-type: none"> <i>Timber harvesting within the UWR unit is necessary to create guyline tiebacks for timber harvesting provided trees that fall within the UWR unit boundary are retained on site to function as coarse woody debris; or</i> <i>Cutting of trees is for the purposes of traditional and cultural activities, as authorized under a Free Use Permit.</i> <i>Timber harvesting, road construction and silviculture activities within the UWR units listed in Table 1 may occur provided that it will result in retention of the productive forest land base, as derived from TFL39 Management Plan 8, consistent with the retention amounts listed in Table 1. In addition</i> <ol style="list-style-type: none"> <i>Results from timber harvesting or road construction activities must be made available to a Ministry of Environment or Ministry of Forests and Range official upon request.</i> <i>Where productive forest land base within the UWR unit has been harvested and developed attributes consistent with functioning winter range, additional harvesting can be completed as per retention amounts in Table 1.</i> <i>Retention amounts in Table 1 for PL 07 and PL 02 do not apply to road construction through the UWR units to access timber beyond the UWR units.</i> 		

Result or Strategy – “Order – Ungulate Winter Range #U-2-004 – Mountain Goat TFL 39, Block 1”

- As a **Result or Strategy**, the **Holder** will conduct its **Primary Forest Activities** in the area within **FDU 1** subject to the “Order – Ungulate Winter Range #U-2-004 – Mountain Goat TFL 39, Block 1”, consistent with the General Wildlife Measures in the “Order – Ungulate Winter Range #U-2-004 – Mountain Goat TFL 39, Block 1”.

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OBJECTIVE SOURCE: WILDLIFE: WINTER SURVIVAL OF SPECIFIED UNGULATE SPECIES		
Authority	Category/Source	Effective Date of Objective
BC Reg. 582/2004 ss.9(1)(2) and 12(1)	Order – Ungulate Winter Range #U-2-003 – Mountain Goat Sunshine Coast TSA (Sunshine Coast Forest District)	May 7, 2012
<p><i>General Wildlife Measures</i></p> <ol style="list-style-type: none"> <i>Primary forest activities are not permitted within the ungulate winter range.</i> <i>GWM 1 does not apply if:</i> <ol style="list-style-type: none"> <i>Timber harvesting within an UWR unit is necessary to create guyline tiebacks for safe timber harvesting provided that trees that fall within the UWR unit (measured at +/- 5m) are retained on site to function as coarse woody debris;</i> <i>Timber harvesting is for the purposes of traditional and cultural activities, as authorized under a Free Use Permit.</i> <i>Do not use pesticides, except for:</i> <ol style="list-style-type: none"> <i>The use of Bacillus thuringiensis var kurstaki for the control of western spruce budworm;</i> <i>The use of beetle pheromones for the control of bark beetles; or</i> <i>The application of herbicides for control of invasive plants or noxious weeds.</i> <i>Where primary forest activities are authorized under an UWR unit they must be undertaken during a period extending from 1 June to 15 November of a calendar year to prevent disturbance to mountain goats.</i> <i>GWM 4 does not apply to ground based fertilization and ground based tree planting.</i> <i>Do not conduct helicopter yarding activities within a Specified Area of 1500m line-of-sight from an UWR unit boundary from 15 November to 1 June.</i> <i>GWM 6 does not apply if the Regional FLNRO office is notified prior to the activity commencing and a written rationale that supports one or more of the conditions listed is made available upon request:</i> <ol style="list-style-type: none"> <i>Distance between the activity and the location of mountain goats within the UWR unit is greater than 1500m line-of-sight; or,</i> <i>Snow accumulation within the area of the UWR unit being used by mountain goats is less than 30cm between 15 November to 21 December or between 1 May to 1 June; or,</i> <i>There is low probability of goat occupancy within the UWR unit.</i> <i>Where primary forest activities are planned immediately adjacent to any UWR unit with >30ha productive forest area, GWM 1 does not apply to the area of an incursion along the UWR unit boundary if:</i> <ol style="list-style-type: none"> <i>The incursion is required to provide for a logical harvesting boundary or a logical road or trail location that utilizes a physical feature or administrative boundary; and</i> <i>The area of the incursion, or multiple incursions cumulatively, do not exceed:</i> <ol style="list-style-type: none"> <i>1ha of productive forest area in UWR units with >30ha and ≤50ha productive forest area; or</i> <i>2ha of productive forest area in UWR units with >50ha and ≤100ha productive forest area; or</i> <i>3ha of productive forest area in UWR units with >100ha productive forest area;</i> <i>The incursion exceeds 0.5ha, and the area of the incursion is replaced with an equivalent or greater area of equal or better habitat contiguous to the UWR unit such that there is no net loss; and the incursion does not affect the intent or integrity of the UWR unit; and</i> 		

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- d. *Boundaries of the incursion and any replacement habitat are provided to the Director (via ESRI shape files) prior to the commencement of primary forest activities associated with the incursion.*

Exemption from Result or Strategy – “Order – Ungulate Winter Range #U-2-003”

2. General Wildlife Measures have been established for Mountain Goats in the Sunshine Coast TSA; therefore, the **Holder** of this **FSP** is exempt under **FPPR s.7(3)**, from the obligation to specify a **Result** or **Strategy** for Mountain Goats in **FDU 2**.

6.4 Water, Fish, Wildlife and Biodiversity within Riparian Areas

OBJECTIVE SOURCE: WATER, FISH, WILDLIFE AND BIODIVERSITY WITHIN RIPARIAN AREAS		
Authority	Category/Source	Effective Date of Objective
BC Reg. 14/2004	FPPR s.8	January 31, 2004
<i>The objective set by government for water, fish, wildlife and biodiversity within riparian areas is, without unduly reducing the supply of timber from British Columbia's forests, to conserve, at the landscape level, the water quality, fish habitat, wildlife habitat and biodiversity associated with those riparian areas.</i>		

Result or Strategy – Objective set by government for water, fish, wildlife and biodiversity within riparian areas (FPPR ss.8 and 12.3(1) to (7))

- For the purposes of **FPPR s.12.3(1)**, each **Holder** adopts **FPPR ss.47(4) to (6)** as a **Result** or **Strategy**.
- For the purposes of **FPPR s.12.3(2)**, each **Holder** adopts **FPPR ss.48(3) to (5)** as a **Result** or **Strategy**.
- For the purposes of **FPPR s.12.3(3)**, each **Holder** adopts **FPPR ss.49(2) to (4)** as a **Result** or **Strategy**.
- For the purposes of **FPPR s.12.3(4)**, each **Holder** adopts **FPPR s.50(1)** as a **Result** or **Strategy**.
- For the purposes of **FPPR s.12.3(5)**, each **Holder** adopts **FPPR ss.51(1) and (3)** as a **Result** or **Strategy**.
- For the purposes of **FPPR s.12.3(6)**, each **Holder** adopts **FPPR s.52(2)** as a **Result** or **Strategy**.
- For the purposes of **FPPR s.12.3(7)**, each **Holder** adopts **FPPR s.53** as a **Result** or **Strategy**.

OBJECTIVE SOURCE: WATER, FISH, WILDLIFE AND BIODIVERSITY WITHIN RIPARIAN AREAS		
Authority	Category/Source	Effective Date of Objective
BC Reg. 14/2004	FPPR s.12(3)	January 31, 2004

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OBJECTIVE SOURCE: WATER, FISH, WILDLIFE AND BIODIVERSITY WITHIN RIPARIAN AREAS		
Authority	Category/Source	Effective Date of Objective
(3) Despite section 12.1 (2) and (6), a person who prepares a forest stewardship plan must specify in it, for the objective set out in section 8, a result or strategy that addresses retention of trees in a riparian management zone.		

Result or Strategy – FPPR s.12(3)

8. For the purposes of FPPR 12(3), as a **Result** or **Strategy**, to address the retention of trees in a riparian management zone, the **Holder** will:
- Ensure that prior to harvesting, retention levels within RMZs are determined by a qualified professional through a riparian assessment that considers:
 - All the factors listed in Schedule 1, s.2 of the **FPPR**; and
 - Potential site-specific safety and operational issues;
 - Design cutblocks and roads in a manner that is consistent with the retention levels as determined by the qualified professional as described in section 1.a; and
 - Plan and conduct primary forest activities consistent with the assessment and design in this **Result** or **Strategy**.

6.5 Fish Habitat in Fisheries Sensitive Watersheds

Result or Strategy – FPPR s.8.1

1. No **Result** or **Strategy** required. There are no designated Fisheries Sensitive Watersheds in **FDU 1** or **FDU 2** under this **FSP**.

6.6 Water in Community Watersheds

OBJECTIVE SOURCE: WATER IN COMMUNITY WATERSHEDS		
Authority	Category/Source	Effective Date of Objective
BC Reg. 240/2009	FPPR s.8.2	October 22, 2009
<p>1. In this section, "community watershed" means a community watershed</p> <ol style="list-style-type: none"> that is continued under section 180 (e) of the Act, and for which a water quality objective has not been <ol style="list-style-type: none"> continued under section 181 of the Act, or established under the Government Actions Regulation. <p>2. The objective set by government for water being diverted for human consumption through a licensed waterworks in a community watershed is to prevent to the extent described in subsection (3) the cumulative hydrological effects of primary forest activities within the community watershed from resulting in</p> <ol style="list-style-type: none"> a material adverse impact on the quantity of water or the timing of the flow of the water to the waterworks, or 		

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OBJECTIVE SOURCE: WATER IN COMMUNITY WATERSHEDS		
Authority	Category/Source	Effective Date of Objective
	<p>b. the water from the waterworks having a material adverse impact on human health that cannot be addressed by water treatment required under</p> <p>i. an enactment, or</p> <p>ii. the licence pertaining to the waterworks.</p> <p>3. The objective set by government under subsection (2) applies only to the extent that it does not unduly reduce the supply of timber from British Columbia's forests.</p>	

Definitions for the purposes s.6.6 of this FSP

“Equivalent Clear-Cut Area (ECA)” means, for the purposes of tracking ECA, the R1b hydrologic recovery curve from TR-032⁴ will be applied to harvested stands and cumulated over the total watershed area.

“Hydrologic Assessment” means an assessment, carried out by a qualified professional, to investigate site-specific concerns related to a disturbance (natural or development-related) that has occurred or is planned. A hydrologic assessment is not a comprehensive watershed-scale assessment, but it is an investigation of an area, site, process or event within a watershed unit. A hydrologic assessment will consider applicable watershed assessments and community watershed (CWS) objectives.

“Watershed Assessment” means an assessment prepared by a qualified professional to investigate watershed hydrologic and geomorphic processes and provide guidance for forest management activities. A watershed assessment will consider CWS objectives.

Result or Strategy – FPPR s.8.2

- For the purposes of FPPR s.8.2, as a **Result** or **Strategy** within the Haslam/Lang Community Watershed, Sliammon Lake Community Watershed, Jefferd Community Watershed or Silver Community Watershed (**CWS**), the **Holder** will conduct **Primary Forest Activities** in a manner that is consistent with recommendations from a **Watershed Assessment** or **Hydrologic Assessment**;
- A **Watershed Assessment** must be prepared where the equivalent clear-cut area (ECA) meets or exceeds 20% of the **CWS** area;
- A **Hydrologic Assessment** will be adequate where the **ECA** is less than 20% of the CWS area;
- The practice recommendations in a **Watershed Assessment** may be modified by a subsequent **Hydrologic Assessment**; and
- Hydrologic Assessments** and **Watershed Assessments**, where required under the terms of this **FSP**, will be prepared consistent with the EGBC/ABCFP Joint Professional Practice Guidelines, Watershed Assessment and Management of Hydrologic and Geomorphic Risk in the Forest Industry, v.1.0 (2020).

⁴ Hudson, R. and G. Horel. 2007. Technical Report TR-032/2007.

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6.7 Wildlife and Biodiversity – Landscape Level

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL		
Authority	Category/Source	Effective Date of Objective
BC Reg. 14/2004	FPPR s.9	January 31, 2004
<i>The objective set by government for wildlife and biodiversity at the landscape level is, without unduly reducing the supply of timber from British Columbia's forests and to the extent practicable, to design areas on which timber harvesting is to be carried out that resemble, both spatially and temporally, the patterns of natural disturbance that occur within the landscape.</i>		

Definitions for the purposes of section 6.7 of this FSP

“**Adjacent**” has the same meaning as in **FPPR s.65(1)**.

“**Existing Cutblock**” has the same meaning as in **FPPR s.65(1)**.

“**New Cutblock**” has the same meaning as in **FPPR s.65(1)**.

“**Non-Conforming Portion**” means an area within an existing cutblock on which the stocking and height requirements in s.6.7.1.1 paragraph 3, s.6.7.1.2 paragraph 3, and s.6.7.1.3 paragraph 3, of this **FSP**, have not been met.

6.7.1 Cutblock Size and Adjacency Limits

Result or Strategy – Cutblock Size

- For the purposes of **FPPR s.12.4(1)**, the **Holder** adopts **FPPR s.64(1)** as a **Result** or **Strategy**.

Result or Strategy – Cutblock Adjacency

- For the purposes of **FPPR ss.12.4(2)**, as a **Result** or **Strategy**, each **Holder** must not harvest timber on a **New Cutblock**, unless:
 - All **Existing Cutblocks** that are adjacent to the **New Cutblock** meet the requirements set out in section 3 of this **Result** or **Strategy**, or
 - The combined area of the **New Cutblock** and any **Non-Conforming Portions** that are immediately **Adjacent** to the **New Cutblock** does not exceed the requirements relating to cutblock size set out in s.1.
- For the purposes of section 2.a, an **Existing Cutblock** must meet the criteria set out in one of the following paragraphs:
 - At least 75% of the net area to be reforested of the **Existing Cutblock** is stocked such that the average height of the tallest 100 trees per ha on the area is a minimum of 3 m and
 - Is stocked in accordance with the applicable stocking standards for that cutblock; or
 - Is stocked with at least 500 trees per ha of a commercially valuable species that are at least 1.3 m in height;

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or

- b. The part of the net area to be reforested of the **Existing Cutblock** that is closest to the **New Cutblock**
 - i. Must be at least half of the net area to be reforested;
 - ii. Is stocked such that the average height of the tallest 100 trees per ha on the area is a minimum of 3 m; and
 - iii. Is stocked
 - I. In accordance with the applicable stocking standards for that cutblock; or
 - II. With at least 500 trees per ha of a commercially valuable species that are at least 1.3 m in height.

6.7.2 Old Growth Management Areas (OGMAs)

Result or Strategy – Old Growth Management Areas Generally

1. As a **Result** or **Strategy**, in established Landscape Unit Orders where surplus old seral forest exists, and the Order contains a requirement to identify replacement forest, a **Holder** may request a waiver from the delegated decision maker for the requirement to identify OGMA replacement forest, provided that the total area of mature and old seral forest maintained in OGMAs plus the contributing old seral forest area in protected areas meets or exceeds the targets;

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: OLD GROWTH MANAGEMENT AREAS		
Authority	Category/Source	Effective Date of Objective
FPC s.4	Order to Establish a Landscape Unit and Objectives – Bunster Landscape Unit – Objective 1	September 21, 2000
<i>Maintain or recruit old growth ecosystem values, in old growth management areas, that are established as shown on the attached Map 1. No timber harvesting, including salvage, is to occur within old growth management areas. Road construction is not to occur within old growth management areas unless no other practicable options exist, in which case replacement old growth management areas may be required.</i>		

Result or Strategy – “Order to Establish a Landscape Unit and Objectives – Bunster Landscape Unit”, Objective 1

2. As a **Result** or **Strategy**, each **Holder** will conduct **Primary Forest Activities** in the area subject to the document titled “Order to Establish a Landscape Unit and Objectives – Bunster Landscape Unit” in a manner consistent with Objective 1 of “Order to Establish a Landscape Unit and Objectives – Bunster Landscape Unit”, with the additional the additional allowed practice of topping or pruning of trees within the first 10m of the OGMA boundaries to improve wind firmness.

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OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: OLD GROWTH MANAGEMENT AREAS

Authority	Category/Source	Effective Date of Objective
FPC s.4	Order to Establish a Landscape Unit and Objectives – Powell - Daniels Landscape Unit – Objective 1	January 25, 2002

Maintain or recruit old growth ecosystem values, in old growth management areas, that are established as shown on the attached map dated January 16, 2002. No timber harvesting, including salvage and single-tree harvesting, is to occur within old growth management areas. Road construction is not to occur within old growth management areas unless no other practicable options exist, in which case replacement old growth management areas may be required.

Result or Strategy – “Order to Establish a Landscape Unit and Objectives – Powell-Daniels Landscape Unit”, Objective 1

- As a **Result** or **Strategy**, each **Holder** will conduct **Primary Forest Activities** in the area subject to the document titled “Order to Establish a Landscape Unit and Objectives – Powell-Daniels Landscape Unit” in a manner consistent with Objective 1 of “Order to Establish a Landscape Unit and Objectives – Powell-Daniels Landscape Unit”, with the additional the additional allowed practice of topping or pruning of trees within the first 10m of the OGMA boundaries to improve wind firmness.

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: OLD GROWTH MANAGEMENT AREAS

Authority	Category/Source	Effective Date of Objective
FPC s.4	Order to Establish a Landscape Unit and Objectives – Powell Lake Landscape Unit – Objective 1	December 2, 2002

Maintain or recruit old growth forest attributes, in old growth management areas, that are established as shown on the attached map dated October 30, 2002. No timber harvesting, including salvage and single-tree harvesting, is to occur within old growth management areas. Road construction is not to occur within old growth management areas unless no other practicable options exist, in which case replacement old growth management areas may be required.

Maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads within the right-of-way for safety purposes are exempt from this objective.

The Statutory Decision Maker (SDM) may permit removal or falling of trees or road construction within an OGMA for reasons such as but not limited to the following:

- To prevent the spread of insect infestations or diseases that pose a significant threat to forested areas outside of OGMA's. This will be done in a manner that retains as many old growth forest attributes as possible.*
- Construction of roads and yarding corridors, if the SDM determines that no other practicable option exists.*

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OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: OLD GROWTH MANAGEMENT AREAS

Authority	Category/Source	Effective Date of Objective
<ul style="list-style-type: none"> <i>Partial-cut timber harvesting within immature (<100 years old) portions of OGMA's, where it can be demonstrated that harvesting will accelerate development of old growth forest attributes and improve the stand for biodiversity purposes, without compromising other resource values. Harvest entries for the acceleration of old growth attributes are to be limited to recruitment OGMA's in Lower Biodiversity Emphasis Option Landscape Units.</i> <p><i>First Nations traditional use of forest resources, treaty negotiations or settlements will not be limited by this objective.</i></p>		

Result or Strategy – “Order to Establish a Landscape Unit and Objectives – Powell Lake Landscape Unit”, Objective 1

- As a **Result** or **Strategy**, each **Holder** will conduct **Primary Forest Activities** in the area subject to the document titled “Order to Establish a Landscape Unit and Objectives – Powell Lake Landscape Unit” in a manner consistent with Objective 1 of “Order to Establish a Landscape Unit and Objectives – Powell Lake Landscape Unit”, with the additional the additional allowed practice of topping or pruning of trees within the first 10m of the OGMA boundaries to improve wind firmness.

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: OLD GROWTH MANAGEMENT AREAS

Authority	Category/Source	Effective Date of Objective
FPC s.4	Order to Establish a Landscape Unit and Objectives – Lois Landscape Unit – Objective 1	December 2, 2002
<p><i>Maintain or recruit old growth forest attributes, in old growth management areas, that are established as shown on the attached map dated September 16, 2002. No timber harvesting, including salvage and single-tree harvesting, is to occur within old growth management areas. Road construction is not to occur within old growth management areas unless no other practicable options exist, in which case replacement old growth management areas may be required.</i></p> <p><i>The Statutory Decision Maker (SDM) may permit removal or falling of trees or road construction within an OGMA for reasons such as but not limited to the following:</i></p> <ul style="list-style-type: none"> <i>To prevent the spread of insect infestations or diseases that pose a significant threat to forested areas outside of OGMA's. This will be done in a manner that retains as many old growth forest attributes as possible.</i> <i>Construction of roads and yarding corridors, if the SDM determines that no other practicable option exists.</i> <i>Partial-cut timber harvesting within immature (<100 years old) portions of OGMA's, where it can be demonstrated that harvesting will accelerate development of old growth forest attributes and improve the stand for biodiversity purposes, without compromising other resource values.</i> 		

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OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: OLD GROWTH MANAGEMENT AREAS

Authority	Category/Source	Effective Date of Objective
	<p><i>Harvest entries for the acceleration of old growth attributes are to be limited to recruitment OGMA's in Lower Biodiversity Emphasis Option Landscape Units.</i></p> <ul style="list-style-type: none"> • <i>Subsurface Resource exploration and development</i> <p><i>Maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads within the right-of-way for safety purposes are exempt from this objective.</i></p> <p><i>First Nations traditional use of forest resources, treaty negotiations or settlements will not be limited by this objective.</i></p>	

Result or Strategy – “Order to Establish a Landscape Unit and Objectives – Lois Landscape Unit”, Objective 1

5. As a **Result** or **Strategy**, each **Holder** will conduct **Primary Forest Activities** in the area subject to the document titled “Order to Establish a Landscape Unit and Objectives – Lois Landscape Unit” in a manner consistent with Objective 1 of “Order to Establish a Landscape Unit and Objectives – Lois Landscape Unit”, with the additional the additional allowed practice of topping or pruning of trees within the first 10m of the OGMA boundaries to improve wind firmness.

6.7.3 Non-Spatial Old Growth

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL NON-SPATIAL OLD GROWTH

Authority	Category/Source	Effective Date of Objective
FPC.4	Order Establishing Provincial Non-Spatial Old Growth Objectives	June 30, 2004
<p>8. Draft old growth management areas</p> <p><i>Where the Minister of Sustainable Resource Management, his delegate, or a licensee or group of licensees has identified draft old growth management areas, the Minister or delegate may specify in writing that these draft old growth management areas meet the intent of this Order.</i></p>		

Result or Strategy

1. As a **Result** or **Strategy**, the **Holder** will not carry out **Primary Forest Activities** in the areas designated as draft old growth management areas (OGMA's), as shown on the **FSP** map, with the additional allowed practice of topping or pruning of trees within the first 10m within draft OGMA boundaries to improve wind firmness.

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6.8 Wildlife and Biodiversity – Stand Level

6.8.1 Wildlife Tree Retention

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – STAND LEVEL: WILDLIFE TREE RETENTION		
Authority	Category/Source	Effective Date of Objective
BC Reg. 580/2004	FPPR s.9.1	June 25, 2012
<i>The objective set by government for wildlife and biodiversity at the stand level is, without unduly reducing the supply of timber from British Columbia's forests, to retain wildlife trees.</i>		

Definitions for the Purposes s.6.8.1 of this FSP

“**Equivalent Forested Area**” means replacement forest of equivalent age, structure and area that is within or immediately adjacent to the cutblock to which the **WTRA** relates.

“**Mature Seral Condition**” means at least 80 years old in the CWH biogeoclimatic zone, or at least 120 years old in the MH biogeoclimatic zone.⁵

“**WTP**” means a wildlife tree patch established under the *Forest Practices Code of BC Act*.
Synonymous with **WTRA** except in s.4.c, below.

“**WTRA**” means wildlife tree retention area, has the same meaning as in **FPPR** s.1(1).

Result or Strategy – FPPR ss.9.1 and 12.5(1)

- For the purposes of **FPPR** s.12.5(1), as a **Result** or **Strategy**, the **Holder** will ensure that, for areas not subject to a landscape unit plan order specified in ss.6.8.1.1-4 of this **FSP**, for each cutblock, the area⁶ set aside for a **WTRA**:
 - Is a minimum of 7% of the sum total area of a cutblock;
 - At least 25% of the **WTRA** area contains a component of the upper 10% of the diameter range of trees within the stand to be harvested; and
 - Is within or immediately adjacent to the cutblock to which the **WTRA** relates: and
- Despite s.1.a of this **Result** or **Strategy**, harvest areas exempt from a site plan under **FPPR** s.33, and salvage **Cutblocks** less than or equal to 2 ha, are exempt from **WTRA** requirements; and

Result or Strategy – FPPR ss.9.1 and 12.5(2)

- For the purposes of **FPPR** s.12.5(2), as a **Result** or **Strategy**, the **Holder** must not harvest timber from a **WTRA** unless the trees on the net area to be reforested of the cutblock to which the wildlife tree retention area relates have reached a **Mature Seral Condition**, except:

⁵ *Biodiversity Guidebook*, 1995. p.16. <https://www.for.gov.bc.ca/hfd/library/documents/bib19715.pdf>.

⁶ For the purposes of calculating **WTRA** requirements, a cutblock is considered to be the total of the net area to be reforested and the road area within a cutblock boundary.

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1. As a **Result** or **Strategy**, in the Bunster Landscape Unit Plan area, the **Holder** will ensure that for each cutblock, the area set aside for a **WTRA** is the amount specified in Objective 2 of the Legal Objectives for the Bunster Landscape Unit;
 2. For the purposes of adopting Objective 2 of the Legal Objectives for the Bunster Landscape Unit:
 - a. “Cutblocks within the forest development plan” means “cutblocks harvested under the term of this FSP”; and
 - b. Where no **High Value Wildlife Trees** are identified within 50m horizontal distance from a block boundary, “high value wildlife trees” means trees from the upper 10% of the diameter class of the stand to be harvested;
- and
3. For the purposes of adopting Objective 2 of the Legal Objectives for the Bunster Landscape Unit, where a cutblock contains more than one BEC subzone or variant, the amount of **WTRA** specified will be based the proportion of each BEC subzone or variant within the cutblock

6.8.1.2 Stand Level retention in the Powell Daniels Landscape Unit

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – STAND LEVEL: WILDLIFE TREE RETENTION		
Authority	Category/Source	Effective Date of Objective
FPC s.4	Order to Establish a Landscape Unit and Objectives – Powell-Daniels Landscape Unit, Objective 2	January 25, 2002
<ul style="list-style-type: none"> - Maintain structural diversity within managed stands by retaining wildlife trees within the total area under prescription of each cut-block as described below and indicated in the table below: - Wildlife tree patches are to include a component of the upper 10% of the diameter range of trees within the stand to be harvested. - No harvesting, including salvage or single-tree removal, is to occur within established Wildlife Tree Patches. 		
Table A. Wildlife Tree Retention by BEC subzone in the Powell-Daniels Landscape Unit.		
BEC Subzone/Variant		Wildlife Tree Retention %.
CWHdm (Coastal Western Hemlock, Dry maritime)		11%
CWHvm (Coastal Western Hemlock, Montane moist maritime)		10%.
MHmm1 (Mountain Hemlock, Windward moist maritime)		4%.

Result or Strategy – “Order to Establish a Landscape Unit and Objectives – Powell-Daniels Landscape Unit”, Objective 2

1. As a **Result** or **Strategy**, in the Powell Daniels Landscape Unit Plan area, the **Holder** will ensure that for each cutblock, the area set aside for a **WTRA** is the amount specified in Objective 2 of the Legal Objectives for the Powell-Daniels Landscape Unit; and

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- For the purposes of adopting Objective 2 of the Legal Objectives for the Powell-Daniels Landscape Unit, where a cutblock contains more than one BEC subzone or variant, the amount of **WTRA** specified will be based the proportion of each BEC subzone or variant within the cutblock.

6.8.1.3 Stand Level retention in the Powell Lake Landscape Unit

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – STAND LEVEL: WILDLIFE TREE RETENTION

Authority	Category/Source	Effective Date of Objective
FPC s.4	Order to Establish a Landscape Unit and Objectives – Powell Lake Landscape Unit, Objective 2	December 2, 2022

Maintain stand level structural diversity by retaining wildlife tree patches. Cutblocks for which harvesting has been completed by each licensee will maintain adequate amounts of wildlife tree patches to ensure that over any 5 year period, commencing on the date the objectives are established, and across the Biogeoclimatic Ecosystem Classification (BEC) subzone the target percentage as noted in Table A is achieved. In addition:

- No timber harvesting, including salvage or single tree selection, is to occur within established Wildlife Tree Patches.
- Wildlife Tree Patches must include, if present, live or dead veteran trees (excluding danger trees), or remnant old growth patches.
- Wildlife Tree Patches must include larger trees for the stand and any existing moderate to high value wildlife trees (excluding danger trees).

Table A. Wildlife Tree Retention by BEC subzone in the Powell Lake Landscape Unit.

BEC Subzone/Variant	Wildlife Tree Retention %.
CWHdm (Coastal Western Hemlock, Dry maritime)	10%
CWHvm2 (Coastal Western Hemlock, Montane moist maritime)	12%.
MHm1 (Mountain Hemlock, Windward moist maritime)	8%.

Result or Strategy – “Order to Establish a Landscape Unit and Objectives – Powell Lake Landscape Unit”, Objective 2

- As a **Result** or **Strategy**, in the Powell Lake Landscape Unit Plan area, the **Holder** will ensure that for each cutblock, the area set aside for a **WTRA** is the amount specified in Objective 2 of the Legal Objectives for the Powell-Lake Landscape Unit;
- For the purposes of adopting Objective 2 of the Legal Objectives for the Powell Lake Landscape unit, “larger trees for the stand” means the upper 10% of the diameter class of trees within the stand to be harvested; and
- For the purposes of adopting Objective 2 of the Legal Objectives for the Powell Lake Landscape Unit, where a cutblock contains more than one BEC subzone or variant, the amount of **WTRA** specified will be based the proportion of each BEC subzone or variant within the cutblock.

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6.8.1.4 Stand Level retention in the Lois Landscape Unit

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – STAND LEVEL: WILDLIFE TREE RETENTION

Authority	Category/Source	Effective Date of Objective
FPC s.4	Order to Establish a Landscape Unit and Objectives – Lois Landscape Unit, Objective 2	October 30, 2002

Maintain stand level structural diversity by retaining wildlife tree patches. Cutblocks for which harvesting has been completed by each licensee will maintain adequate amounts of wildlife tree patches to ensure that over any 5 year period, commencing on the date the objectives are established, and across the Biogeoclimatic Ecosystem Classification (BEC) subzone the target percentage as noted in Table A is achieved. In addition:

- *No timber harvesting, including salvage or single tree selection, is to occur within established Wildlife Tree Patches.*
- *Wildlife Tree Patches must include, if present, live or dead veteran trees (excluding danger trees), or remnant old growth patches.*
- *Wildlife Tree Patches must include larger trees for the stand and any existing moderate to high value wildlife trees (excluding danger trees).*
- *Wildlife Tree Patches are to include a representative component of the trees within the stand to be harvested.*
- *Wildlife tree patches are to include a component of the upper 10% of the diameter range of trees within the stand to be harvested.*

Table A. Wildlife Tree Retention by BEC subzone in the Lois Landscape Unit.

BEC Subzone/Variant	Wildlife Tree Retention %.
CWHxm (Coastal Western Hemlock Very Dry Maritime)	12%
CWHdm (Coastal Western Hemlock, Dry maritime)	14%
CWHvm2 (Coastal Western Hemlock, Montane moist maritime)	14%.
MHm1 (Mountain Hemlock, Windward moist maritime)	11%.

Result or Strategy – “Order to Establish a Landscape Unit and Objectives – Lois Landscape Unit”, Objective 2

1. As a **Result** or **Strategy**, in the Lois Landscape Unit Plan area, the **Holder** will ensure that for each cutblock, the area set aside for a **WTRA** is the amount specified in Objective 2 of the Legal Objectives for the Lois Landscape Unit; and
2. For the purposes of adopting Objective 2 of the Legal Objectives for the Lois Landscape Unit, where a cutblock contains more than one BEC subzone or variant, the amount of **WTRA** specified will be based the proportion of each BEC subzone or variant within the cutblock.

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6.9 Visual Quality

OBJECTIVE SOURCE: VISUAL QUALITY		
Authority	Category/Source	Effective Date of Objective
FRPA s.2(2)(a), GAR s.7(1), 7(2)	Order – Establishment of Scenic Areas and Visual Quality Objectives for Tree Farm Licence 39 Block 1 within the Sunshine Coast Forest District	June 19, 2009
<p><i>Pursuant to Section 7(1) and (2) of the Government Actions Regulation (GAR) I, Brian Hawrys, District Manager for the Sunshine Coast Forest District, cancel the established scenic area and Visual Quality Objectives (VQOs) for Tree Farm Licence 39 Block 1 identified and referred to in the District Manager's letter Dated May 16, 1997 that were grand-parented under Sections 180 and 181 for the Forest and Range Practices Act on December 2004.</i></p> <p><i>I now establish the scenic area and Visual Quality Objectives for Tree Farm Licence 39 Block 1 within the Sunshine Coast Forest District as shown on the signed and dated map attached to this Order titled "TFL39 Block 1 Scenic Area and Visual Quality Objectives Established Under Government Action Regulation Section 7(1) and (2) Sunshine Coast Forest District, June 19, 2009".</i></p>		

Result or Strategy – FPPR s.9.2

1. For the purposes of **FPPR s.9.2**, as a **Result** or **Strategy**, the **Holder** adopts the "Order – Establishment of Scenic Areas and Visual Quality Objectives for the Sunshine Coast Forest District" (2009);
2. Where required, a Visual Impact Assessment (VIA) will be conducted according to the ABCFP's 'Guidance for Forest Professionals Practicing in Visual Resource Management', as amended from time to time;
3. The **Holder** will ensure that the recommendations in an applicable VIA are followed to the extent practicable, including mitigation measures such as, but not limited to, tree crown modification of timbered edges;
4. The scenic areas and VQOs apply to a road permit, cutting permit or area declared under **FPPR s.14(4)**, as the scenic areas and VQOs were on the date of submission. This **Result** or **Strategy** applies to new objectives established under **GAR s.7** on the effective date of the Order; and
5. If the road or harvesting relates to the harvesting of timber that is damaged or destroyed by fire insects, disease, wind, flooding or other factor, and it is not practicable to meet the established VQO, the **Holder** may make an application for an exemption to the objective under **FPPR s.12(7)**.

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6.10 Cultural Heritage Resources

OBJECTIVE SOURCE: CULTURAL HERITAGE RESOURCES		
Authority	Category/Source	Effective Date of Objective
BC Reg. 14/2004	FPPR s.10	January 31, 2004
<p><i>The objective set by government for cultural heritage resources is to conserve, or, if necessary, protect cultural heritage resources that are</i></p> <ul style="list-style-type: none"> <i>a) the focus of a traditional use by an aboriginal people that is of continuing importance to that people, and</i> <i>b) not regulated under the Heritage Conservation Act.</i> 		

Definitions for the purposes of this Result or Strategy

“CHR” means Cultural Heritage Resource.

“Cedar” – includes both western red-cedar (*Thuja plicata*) and cypress (*Chamaecyparis nootkatensis*)

“First Nation CHR Information” means information regarding a potentially affected CHR within the FDU provided to the Holder by a First Nation affected by this FSP:

- a. Prior to review and comment pertaining to the proposed form of this FSP under FPPR s.20;
- b. During review and comment pertaining to the proposed form of this FSP, in accordance FPPR s.21; or
- c. During the term of this FSP.

“Potentially Affected CHR” means a Cultural Heritage Resource that is:

1. in the case of a **Treaty First Nation**, the subject of an aboriginal right of that **Treaty First Nation** set out in the **Treaty First Nation’s Final Agreement**; or
2. in the case of a First Nation other than a **Treaty First Nation**:
 - a. Subject to FPPR s.10;
 - b. Not conserved or protected by other arrangements;
 - c. Capable of being addressed in the context of this FSP; and
 - d. Important, valuable and scarce, as determined by government:
 - i. based on traditional use by an aboriginal people, and
 - ii. from consultation with a First Nation regarding **First Nation CHR Information**, that government has provided.

“Treaty First Nation” means the Tla’amin Nation

“First Nation Area of Interest” means provincial Crown land that is within the Tla’Amin Area, as described in the Tla’amin Final Agreement.

“Monumental Cedar and Cypress Harvesting Allocation” means, for a Treaty First Nation, that portion of an allocation under or pursuant to a Monumental Cedar and Cypress harvesting

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agreement entered into by that **Treaty First Nation** under the **Final Agreement** of that **Treaty First Nation** to harvest **Monumental Cedar and Cypress** that is attributable to the **First Nation Area of Interest** of that **Treaty First Nation**;

6.10.1 Conserving or Protecting Cultural Heritage Resources

Result or Strategy – FPPR s.10

1. For the purposes of **FPPR s.10**, the **Holder** will, as a **Result** or **Strategy**, not cause the availability of a **Potentially Affected CHR** to be less than the historical extent of the traditional use by that **First Nation** or **Treaty First Nation**, as a result of a **Primary Forest Activity** where the **Potentially Affected CHR** was determined before the date the cutting permit or road permit authorizing **Primary Forest Activity** was issued.
2. Where a previously unidentified **Potentially Affected CHR** is encountered, the **Holder** will, as a **Result** or **Strategy**, modify to the extent necessary:
 - a. the **Primary Forest Activity** to mitigate the impact the **Primary Forest Activity** might have on that **Potentially Affected CHR**; or
 - b. the design of the **Cutblock** or road to conserve or protect that **Potentially Affected CHR**.

6.10.2 Information Sharing

Result or Strategy – FPPR s.10

1. For the purposes of **FPPR s.10**, the **Holder** will, as a **Result** or **Strategy**, at least once each calendar year, for each **First Nation** with asserted traditional territory within the **FDU** and each **Treaty First Nation** that has a **First Nation Area of Interest**:
 - a. Identify the approximate location of planned cutblocks and roads, if any, to which this **FSP** applies that are within that asserted traditional territory and not previously identified by the **Holder** to that **First Nation**;
 - b. Request from that **First Nation** information, regarding any potentially affected **CHR** and the historical extent of traditional use, not previously provided by the **First Nation** to the **Holder**; and
 - c. If information has been identified under s.1.b of this **Result** or **Strategy**, request a meeting or communicate with that **First Nation** to review the access, conservation or, if necessary, protection of the potentially affected **CHR**;
2. Provide to the Crown any **First Nation CHR Information** not previously provided by the **Holder**, and
3. Request from the Crown updated information regarding any potentially affected **CHR** that has not already been provided by the Crown to the **Holder**.

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6.10.3 Monumental Cedar or Large Cultural Cedars

Result or Strategy – FPPR s.10

1. For the purposes of **FPPR s.10**, the **Holder** will, as a **Result** or **Strategy**, plant or promote natural regeneration of **Cedar** as a component of future stands on areas where:
 - a. The **Holder** has an obligation under **FRPA s.29(1)**; and
 - b. **Cedar** is ecologically suited;
2. If requested by a **Treaty First Nation**, assist that **Treaty First Nation** in locating **Monumental Cedar and Cypress** in respect of its **Monumental Cedar and Cypress Harvesting Allocation**; or
3. If requested by a First Nation with asserted traditional territory within the **FDU** that has historically utilized **Cedar** from that traditional territory for making paddles, masks, totems, canoes or other similar traditional use items, and to the extent of such historical use, develop **Cedar** strategies and assist that First Nation in identifying or locating **Cedar** trees and obtaining logs suitable for such purpose.

6.11 FRPA Value: Recreation

BACKGROUND INFORMATION: RECREATION		
Authority	Category/Source	Effective Date of Objective
Act s.56	FRPA Value	November 21, 2002
<ol style="list-style-type: none"> 1. <i>The minister may order</i> <ol style="list-style-type: none"> a) <i>the establishment of Crown land as an interpretive forest site, a recreation site or a recreation trail, except Crown land that is subject to another enactment and is being administered by another minister, branch or agency of government,</i> b) <i>the variance of the boundaries of an interpretive forest site, a recreation site or a recreation trail, and</i> c) <i>the disestablishment of an interpretive forest site, a recreation site or a recreation trail.</i> 2. <i>[Repealed 2003-55-31.]</i> 3. <i>The minister may establish an objective for an interpretive forest site, recreation site or recreation trail established under subsection (1).</i> 4. <i>An objective established under subsection (1) must be consistent with objectives set by government that pertain to the area.</i> 		

Definitions

“**Recreation Site**” means an area established under **FRPA s.56** or **FPC s.102**

“**Recreation Trail**” means a linear corridor established under **FRPA s.56** or **FPC s.102**

“**Non-status Road**” means a continuous linear feature where the forest floor was removed for industrial purposes and which is at least 2 meters wide.

FRPA Value - Recreation

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1. The **Holder** will not carry out a **Primary Forest Activity** within a **Recreation Site**, except for;
 - a. Falling a danger tree;
 - b. Pruning or topping a tree that is not windfirm;
 - c. Relocating an existing road where there is no other practicable option with respect to one or more documented engineering constraints.
2. The **Holder** will:
 - a. Follow approved Management Strategies or Principles described in Appendix 2 for a **Recreation Trail** to meet or exceed the requirements under the applicable strategy; otherwise,
 - b. Not carry out a **Primary Forest Activity** within 10 meters on either side of the **Recreation Trail**, except;
 - i. Falling a danger tree;
 - ii. Pruning or topping a tree that is not windfirm;
 - iii. Relocating an existing road where there is no other practicable option with respect to one of more document engineering constraints; or
 - iv. Construct a road or yarding corridor across the trail;
 and
 - c. Subsection 2.b does not apply if the **Recreation Trail** is located on **Road** or a **Non-status Road**.

6.12 FRPA Value: Resource Features

BACKGROUND INFORMATION: RESOURCE FEATURES		
Authority	Category/Source	Effective Date of Objective
BC Reg. 582/2004	Order to Identify Karst Resource Features for the Sunshine Coast Forest District	October 20, 2010
<i>Pursuant to Section 5 of the Government Actions Regulation of the Forest and Range Practices Act (FRPA), I hereby identify the following surface or subsurface elements of a karst system as resource features wherever they are found within the Sunshine Coast Forest District, effective September 30, 2010.</i> <ul style="list-style-type: none"> • Karst caves • Significant surface karst features • The important features and elements within very high or high vulnerability karst terrain 		
BC Reg. 580/2004	FPPR s.70(1)	January 31, 2004
<i>An authorized person who carries out a primary forest activity must ensure that the primary forest activity does not damage or render ineffective a resource feature.</i>		

FRPA Value – Resource Features

1. Resource features include practice requirements that are not within the scope of an FSP and are mentioned here only as background information supporting this **FSP**. No objectives are

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specified in resource feature orders; therefore, **Results** or **Strategies** are not required. Current Orders are listed in the objective source table above. The **Holder** will ensure that **Primary Forest Activities** do not damage or render ineffective a resource feature subject to an Order.

7 FRPA Measures

7.1 Invasive Plants

BACKGROUND INFORMATION: INVASIVE PLANTS		
Authority	Category/Source	Effective Date of Objective
BC Reg. 580/2004	FPPR s.17	January 31, 2004
<i>For the purpose of section 47 [invasive plants] of the Act, a person who prepares a forest stewardship plan must specify measures in the plan to prevent the introduction or spread of species of plants that are invasive plants under the Invasive Plants Regulation, if the introduction or spread is likely to be the result of the person's forest practices.</i>		

Table 7.1 – Priority Species⁷

Priority	Species
Prevent	Yellow Starthistle
Provincial EDRR	Perennial Pepperweed
Provincial Containment	Giant Hogweed, Rush Skeletonweed
Regional Containment/Control	Blueweed, Common Tansy, Field Scabious, Hoary Alyssum, Hoary Cress, Knotweeds (Japanese, Giant, Bohemian, Himalayan), Leafy Spurge, Marsh Plume Thistle, Orange Hawkweed, Puncture Vine, Scotch Broom, Spotted Knapweed, Teasel, Yellow Flag Iris
Management	Gorse, Purple Loosestrife, Scentless Chamomile, Scotch Thistle, Sulphur Cinquefoil, Tansy Ragwort

Table 7.2 – Priority Categories and Provincial Objectives for Invasive Plants⁸

Priority Category	Category Description	Management Objective
Prevent	Species determined to be high risk and not yet established.	Prevent introduction and establishment.

⁷ Correlated list between the Invasive Plants Regulation and the document titled 'Provincial Priority Invasive Species – BC Inter-Ministry Invasive Species Working Group' (March 2021), on the effective date of this FSP.

⁸ Adopted from the definitions contained in the document titled 'Provincial Priority Invasive Species – BC Inter-Ministry Invasive Species Working Group' (March 2021).

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Provincial EDRR	Species is high risk and is new to the Province	Eradication.
Provincial Containment	Species is high risk with limited extent but significant potential to spread.	Prevent further expansion into new areas with the ultimate goal of reducing the overall extent.
Regional Containment/Control	Species is high risk and well established, or medium risk with high potential to spread.	Prevent further expansion into new areas within the region through establishment of occurrences outside the line to control
Management	Species is more widespread by may be of concern in specific situations with certain high values – e.g. conservation lands or specific agriculture crops.	Reduce the invasive species impacts locally or regionally, where resources are available.

Definitions for the purposes Measures in s.7.1 of this FSP

“**Applicable Area**” means an area where:

- It is likely that **Primary Forest Practices** will result in introduction or spread of **Priority Species**;
- There is a moderate to high risk that **Priority Species** are likely to germinate on soil exposed that is a result of a **Holder’s Primary Forest Practices** under this **FSP**;
- It is reasonably expected that grass would grow on these exposed sites;
- It is reasonably foreseeable that revegetation with grass seed would materially reduce the likelihood of invasive plant germination;
- The area of exposed mineral soil is at least a contiguous 0.1 ha outside of a road prism; and
- A **Holder** has not deemed the area to be an active surface area where **Primary Forest Activities** are occurring or are planned to occur.

“**Priority Categories**” means the priority categories listed in Table 7.1 of s.7.1 of this **FSP**.

“**Priority Species**” means those invasive species listed in Table 7.2 of s.7.1 of this **FSP**.

Measure – FPPR s.17

- For the purposes of **FPPR s.17**, the **Holder** will, as a **Measure**:
 - Incorporate known invasive **Priority Species** into development plans and report new sites as they are discovered, by
 - In the planning process, consulting the map display module of the Invasive Alien Plant Program (IAPP) online database for known invasive **Priority Species** (www.for.gov.bc.ca/hra/plants/application.htm);
 - Distribute information to staff and contractors on **Priority Species** that exist or threaten to establish within the plan area, on an annual basis; and
 - Inspecting work sites and reporting the size and location of new infestations of **Priority Species**;

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- b. Avoid sites infested by **Priority Species** for staging, parking, and log sorting, both in the bush and storage yards;
- c. Work in uninfested sites before moving to infested sites;
- d. Inspect and ensure fill and erosion-control materials are not taken from sites infested with **Priority Species**;
- e. Minimize unnecessary soil disturbance and maintain native vegetation, especially in areas infested with **Priority Species**;
- f. Revegetate a disturbed site that is an **Applicable Area** as soon as possible with weed-free Common No.1 Forage Mixture or better; and
- g. Promptly control infestations of **Priority Species** resulting from **Primary Forest Activities**, if in the infestation is a knotweed species, or in the **Prevent, Provincial EDRR** or **Provincial Containment Priority Categories**, or after consultation with a Provincial Invasive Species Specialist if in the Regional Containment/Control priority category.

7.2 Natural Range Barriers

BACKGROUND INFORMATION: NATURAL RANGE BARRIERS		
Authority	Category/Source	Effective Date of Objective
BC Reg. 14/2004	FPPR s.18	January 31, 2004
<i>For the purpose of section 48 [natural range barriers] of the Act, a person who prepares a forest stewardship plan must specify measures to mitigate the effect of removing or rendering ineffective natural range barriers.</i>		

Measure – FPPR s.18

1. No measures specified. There are no natural range barriers in the FDUs under this FSP.

8 Stocking Standards

Definitions for the purposes of these Stocking Standards

“**Assessment Area**” or “**AA**” means an unmappable area within a standards unit with a uniform site series or phase.

“**Heavy Elk Use Area**” means a mappable stratum where at least two tree plantations have failed due to elk activity.

“**Standards Unit**” or “**SU**” has the same meaning as in **FPPR s.1(1)**

8.1 Application

2. These stocking standards apply to:
 - a. areas harvested under this **FSP** within **FDU 1**; and

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- b. areas identified in a cutblock site plan as the “net area to be reforested”, as that term is defined in FPPR s.1(1).

8.2 Application to Cutblocks Where Harvesting Began Before Term Commences (Act s.197(5)) and declaration was not received by MFLNRO within RESULTS

1. See s.3.2.1.e of this FSP.

8.3 Situation or Circumstances that Determine Whether Free Growing is Assessed on a Block Basis

BACKGROUND INFORMATION: SITUATION OR CIRCUMSTANCES THAT DETERMINE WHETHER FREE GROWING IS ASSESSED ON A BLOCK BASIS		
Authority	Category/Source	Effective Date of Objective
BC Reg. 14/2004	FPPR s.16(1)	January 31, 2004
<i>A person required to prepare a forest stewardship plan must ensure that the plan specifies the situations or circumstances that determine when section 44 (1) or section 45 will apply to an area.</i>		
BC Reg. 580/2004	FPPR s.44(1)	June 25, 2012
<p><i>A person who has an obligation to establish a free growing stand must establish, for areas that have been identified under section 16 (1) [stocking standards] as areas to which this section will apply, a stand that:</i></p> <p><i>(a) meets the applicable stocking standards set out in the forest stewardship plan for the area, by the applicable regeneration date specified for the area, and</i></p> <p><i>(b) meets the applicable stocking standards and free growing height set out in the forest stewardship plan for the area by a free growing date that is no more than 20 years from the commencement date, unless the minister permits a later free growing date.</i></p>		

1. FPPR s.44(1) applies in all situations or circumstances under this FSP where a free growing stand is required to be established under FRPA s.29.

8.4 Stocking and Related Standards for Stands to which Free Growing Obligations Apply

1. There may be relatively uniform conditions or mosaics (ecosystem complexes), transitional ecosystem sites, and varying site conditions within the net area to be reforested, for each cutblock. The net area to be reforested may be stratified into areas of similar characteristics for the purposes of stocking standards, or **Standards Units (SUs)**. A **Standards Unit** will be assigned the applicable stocking standard from Appendix 1.1, based on the dominant ecosystem site series and, if applicable, phase. Management intent will also govern the choice of a stocking standard. The stocking standard includes species, target and minimum stocking levels (TSS and MSS), minimum intertree distance (MITD), and free growing heights.

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2. Optionally, to accommodate unmappable site series mosaics, elements of a stocking standard may be assigned at an **Assessment Area** level.

8.4.1 Species

1. Species selection to determine compliance with **FPPR** s.44(1) of the **FPPR** will be based on the ecosystem classification and be evaluated at the **SU** or **AA** level. Species which are ecologically suitable and commercially valuable for each site series are listed in Appendix 1.1. All listed species are preferred.

8.4.2 Stocking (Even-Aged Stocking Standards)

8.4.2.1 Target Stocking Standards

1. Target Stocking Standards (TSS) are listed in Appendix 1.1, except
 - a. Where hardwood management is applied under s.8.5; or
 - b. In areas where **Heavy Elk Use Area** stocking standards are applied, the TSS are 1200 stems per hectare, to allow for clumpy stocking;and
2. TSS is assigned at the **SU** level.

8.4.2.2 Minimum Stocking Standard

1. Minimum Stocking Standards (MSS) are listed in Appendix 1.1, except
 - a) Where hardwood management is applied under s.8.5; or
 - b) In areas where **Heavy Elk Use Area** stocking standards are applied, the MSS are will be 50% of the MSS in Appendix 1.1;and
2. MSS is assigned at the **SU** level.

8.4.2.3 Minimum Horizontal Intertree Distance

1. Minimum intertree distances (MITDs) are listed in Appendix 1.2, along with application conditions; and
2. MITD may be assigned at the **SU** or **AA** level.

8.4.2.4 Minimum Height Over Competitive Brush

1. For the CWH biogeoclimatic zone, the minimum free growing height over competitive brush species is 150%;
2. For the MH biogeoclimatic zone, the minimum free-growing height over competitive brush species is 125%, and
3. Hardwoods with a point of germination within 10 m of classifiable riparian features, or in a road prism, are considered non-competitive at the time of free-growing.

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4. Within the CWH biogeoclimatic zone, on mesic and sub-mesic sites where Douglas-fir is more than 75%⁹ of the silviculture layer in a **Standard Unit**, red alder may be considered non-competitive at the time of free growing, if the total component of red alder is less than 400 trees per hectare in that **Standard Unit**.¹⁰
5. For the CWH biogeoclimatic zone, on mesic and sub-mesic sites where western red-cedar is more than 75% of the silviculture layer in a **Standard Unit**, Red alder is considered non-competitive at the time of free growing, if the total component of red alder is less than 100 trees per hectare in that **Standard Unit**.¹¹

8.4.2.5 Regeneration Date

1. The regeneration date is 6 years.

8.4.2.6 Minimum Free Growing Height

1. The minimum free growing heights listed in Appendix 1.1 will be used to demonstrate that the trees are adapted to the site, are growing well and can reasonably be expected to continue to do so, and
2. Minimum free growing height may be assigned at the **SU** or **AA** level.

8.5 Hardwood Management

1. Red alder will be the leading species for hardwood management;
2. For site series and identified for hardwood management in Appendix 1.1, listed coniferous species and big-leaf maple may contribute to target stocking;
3. The minimum free growing height of red alder and maple will be 4 m;
4. Not more than 0.5% of the area managed under s.8.5 of this **FSP** will have hardwood stocking standards applied, over a five year period;
5. At least 80% of the total stocking will be red alder;
6. The target stocking standard (TSS) is 1500 stems per hectare and the minimum stocking standard is 1000 stems per hectare; and
7. Heavy elk use stocking standards will not be used in hardwood management areas.

⁹ Puettmann, K.J., Hibbs, D.E., Hann D.W. "The dynamics of mixed stands of *Alnus rubra* and *Psuedotsuga mezesii*: extension of size-density analysis to species mixture." *Journal of Ecology* 80 (1992): 449-458 .

¹⁰ Fang, Chengdong, Philip G. Comeau, and George J. Harper. "Effects of red alder on growth of Douglas-fir and western redcedar in southwestern British Columbia." *Forest Ecology and Management* 434 (2019): 244-254.

¹¹ Ibid.

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8.6 Intermediate Cutting

BACKGROUND INFORMATION: INTERMEDIATE CUTTING		
Authority	Category/Source	Effective Date of Objective
BC Reg. 14/2004	FPPR s.16(4)	January 31, 2004
<i>A person required to prepare a forest stewardship plan must ensure that the plan specifies stocking standards for areas referred to in section 44 (4), and the situations or circumstances that determine when the stocking standards will be applied.</i>		

Stocking Standard for Intermediate Cuttings (FPPR ss.44(4))

1. Where a **Holder** of this FSP applies intermediate cutting as a silviculture system in an area within the **FDU**, that Holder will not cause stocking within that area to fall below 40 m²/ha for a period of at least 12 months after harvest completion;
2. Intermediate cutting rules apply to conifer management only;
3. Openings greater than 0.1 ha will be managed using even-aged stocking standards;
4. Intermediate cutting as a single entry may only be applied in:
 - a. Areas where harvest is constrained by visual quality objectives under s.6.9 of this **FSP**; or
 - b. In riparian management zones, where prescribed in a site plan, consistent with s.6.4.8 of this **FSP**;
5. Where intermediate cutting is applied, the residual stand will consist of ecologically suitable species that will be viable for future harvest opportunities, and
6. A stocking standard ID will be assigned for CWHvm1-01 and additional site series may be added to the standard, as required, using the approved variation mechanism. Suitable species will match the species listed in Appendix 1.1.

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9 Signature(s) (FRPA Act s.5(3))

CERTIFICATION OF SIGNING PROFESSIONAL

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.

FSP signed

Geoffrey Matheson, RPF
Senior Operations Field Forester

Date

SIGNATURE OF PERSON REQUIRED TO PREPARE THIS FSP (FRPA s.5(3))

Darwyn Koch, RPF
TFL Forester, Stillwater Forest Operation

Date

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Appendix 1 – Stocking Standards

The stocking standards IDs (SSIDs) in RESULTS are:

Even-aged conifer management: xxxxxxxx

Even-aged hardwood: xxxxxxxx

Intermediate Cut: xxxxxxxx

Heavy Elk Use Areas: xxxxxxxx

Species selection will occur at the Standards Unit level based on the dominant site series in the SU or AA. Ecologically suitable species for each site series are listed in the table below. Appendix 1.1 defines even-aged stocking standards for use in RESULTS.

Appendix 1.1 – Species Selection and Stocking Targets

BEC	Site Series	TSS	MSS	Coniferous Species / Minimum Free Growing Heights										
CWHxm	01*	1000	500	--	--	--	Cw/1.5	Fd/3.0	Hw/2.0	--	--	Pw/2.5	--	--
	02	800	400	--	--	--	--	Fd/2.0	--	--	Pl/1.2	--	--	--
	03	1000	400	--	--	--	Cw/1.0	Fd/2.0	Hw/1.2	--	Pl/1.2	Pw/2.5	--	--
	04	1000	500	--	--	--	Cw/1.5	Fd/3.0	Hw/2.0	--	--	Pw/2.5	--	--
	05*	1000	500	--	Bg ¹ /3.5	--	Cw/2.0	Fd/4.0	Hw/1.7	--	--	Pw/2.5	--	--
	06	1000	500	--	Bg/3.0	--	Cw/1.5	Fd/3.0	Hw/2.0	--	--	--	--	--
	07*	1000	500	--	Bg ¹ /3.5	--	Cw/2.0	Fd/4.0	Hw/1.7	--	--	--	Ss/4.0	--
	08*	1000	500	--	Bg/3.5	--	Cw/2.0	Fd/4.0	--	--	--	--	Ss/4.0	--
	09	1000	500	--	Bg/3.5	--	Cw/2.0	--	--	--	--	--	Ss/4.0	--
	11	1000	400	--	--	--	Cw/1.0	--	--	--	Pl/1.2	--	--	--

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BEC	Site Series	TSS	MSS	Coniferous Species / Minimum Free Growing Heights										
	12	1000	400	--	--	--	Cw/1.0	--	Hw/1.5	--	--	Pw/2.5	Ss/1.5	--
	13*	1000	500	--	Bg/3.5	--	Cw/2.0	Fd/4.0	--	--	--	--	--	--
	14	1000	500	--	Bg/3.5	--	Cw/2.0	--	--	--	--	--	--	--
	15	1000	500	--	--	--	Cw/2.0	--	--	--	--	--	--	--
CWHdm	01*	1000	500	--	--	--	Cw/1.5	Fd/3.0	Hw/3.0	--	--	Pw/2.5	--	--
	02	800	400	--	--	--	--	Fd/2.0	--	--	PI/1.2	--	--	--
	03	1000	500	--	--	--	Cw/1.0	Fd/2.5	Hw/2.0	--	--	--	--	--
	04*	1000	500	--	--	--	Cw/1.5	Fd/3.0	--	--	--	Pw/2.5	--	--
	05*	1000	500	--	Bg/3.5	--	Cw/2.0	Fd/4.0	Hw/4.0	--	--	Pw/2.5	--	--
	06*	1000	500	--	--	--	Cw/1.5	Fd/3.0	Hw/3.0	--	--	--	--	--
	07*	1000	500	--	Bg/3.5	--	Cw/2.0	Fd/4.0	Hw/4.0	--	--	--	--	--
	08*	1000	500	--	Bg/3.5	--	Cw/2.0	--	--	--	--	--	Ss/3.0	--
	09*	1000	500	--	Bg/3.5	--	Cw/2.0	--	--	--	--	--	--	--
	11	1000	500	--	--	--	Cw/1.0	--	--	--	PI/1.2	--	--	--
	12	1000	500	--	--	--	Cw/1.0	--	Hw/2.0	--	--	Pw/2.5	Ss/3.0	--
	13*	1000	500	--	Bg/3.5	--	Cw/2.0	Fd/4.0	--	--	--	--	--	--
	14*	1000	500	--	Bg/3.5	--	Cw/2.0	--	--	--	--	--	--	--
	15	1000	500	--	--	--	Cw/1.0	--	--	--	--	--	--	--
CWHvm1	01*	1000	500	Ba/1.7	--	--	Cw/1.5	Fd/3.0	Hw/3.0	--	--	--	Ss/3.0	--

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BEC	Site Series	TSS	MSS	Coniferous Species / Minimum Free Growing Heights										
	02	800	400	--	--	--	Cw/1.0	Fd/2.0	Hw/2.0	--	PI/1.2	--	--	--
	03	1000	500	Ba/1.2	--	--	Cw/1.0	Fd/2.0	Hw/2.0	--	PI/1.2	--	--	--
	04	1000	500	Ba/1.7	--	--	Cw/1.5	Fd/3.0	Hw/3.0	--	--	--	Ss/3.0	--
	05*	1000	500	Ba/1.7	--	--	Cw/1.5	Fd/3.0	Hw/3.0	--	--	--	Ss/3.0	--
	06*	1000	500	Ba/1.7	--	--	Cw/1.5	Fd/3.0	Hw/3.0	--	--	--	Ss/3.0	--
	07*	1000	500	Ba/2.2	--	--	Cw/2.0	Fd/4.0	Hw/4.0	--	--	--	Ss/4.0	--
	08*	1000	500	Ba/2.2	--	--	Cw/2.0	Fd/4.0	Hw/4.0	--	--	--	Ss/4.0	--
	09*	1000	500	Ba/2.2	--	--	Cw/2.0	Fd/3.0	Hw/4.0	--	--	--	Ss/4.0	--
	10	1000	500	Ba/2.2	--	--	Cw/2.0	--	Hw/4.0	--	--	--	Ss/4.0	--
	12	1000	500	--	--	--	Cw/1.0	--	Hw/2.0	Hm/0.7	PI/1.2	--	--	--
	13	800	400	--	--	--	Cw/1.0	Fd/2.0	Hw/2.0	--	PI/1.2	--	--	--
	14	1000	400	Ba/ 1.7	--	--	Cw/1.5	Fd/3.0	Hw/3.0	--	PI/2.0	--	Ss/3.0	--
CWHvm2	01	1000	500	Ba/1.7	--	Bp/2.5	Cw/1.5	Fd/2.2	Hw/2.5	Hm/1.0	--	--	--	Yc/1.5
	02	800	400	--	--	--	Cw/1.0	Fd/1.5	Hw/1.7	Hm/0.7	PI/1.2	--	--	Yc/1.0
	03	1000	400	Ba/1.5	--	--	Cw/1.0	Fd/1.5	Hw/1.7	Hm/0.7	--	Pw/2.5	--	Yc/1.0
	04	1000	500	Ba/1.5	--	Bp/2.5	Cw/1.0	Fd/1.5	Hw/1.7	Hm/0.7	--	Pw/2.5	--	Yc/1.0
	05	1000	500	Ba/1.7	--	Bp/2.5	Cw/1.5	Fd/2.2	Hw/2.5	Hm/1.0	--	--	Ss/4.0	Yc/1.5
	06	1000	500	Ba/1.7	--	Bp/2.5	Cw/1.5	Fd/2.2	Hw/2.5	Hm/1.0	--	--	--	Yc/1.5
	07	1000	500	Ba/2.2	--	Bp/2.5	Cw/2.0	Fd/3.0	Hw/3.5	Hm/1.0	--	--	Ss/4.0	Yc/2.0

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BEC	Site Series	TSS	MSS	Coniferous Species / Minimum Free Growing Heights										
	08	1000	500	Ba/2.2	--	--	Cw/2.0	Fd/3.0	Hw/3.5	Hm/1.0	--	--	Ss/4.0	Yc/2.0
	09	1000	400	Ba/1.5	--	--	Cw/1.0	Fd/1.5	Hw/1.7	Hm/0.7	PI/1.2	--	--	Yc/1.0
	10	800	400	--	--	--	--	--	Hw/1.7	Hm/0.7	PI/1.2	--	--	Yc/1.0
	11	1000	400	Ba/1.5	--	--	Cw/1.0	Fd/1.5	Hw/1.7	Hm/0.7	--	--	Ss/2.0	Yc/1.0
MHmm1	01	1000	500	Ba/0.6	--	Bp/1.3	Cw/1.0	Fd/1.2	Hw/1.0	Hm/1.0	--	--	Se/1.0	Yc/1.0
	02	800	400	Ba/0.6	--	--	--	--	Hw/1.0	Hm/0.7	--	--	Se/0.7	Yc/0.7
	03	1000	400	Ba/0.6	--	Bp/1.0	--	--	Hw/1.0	Hm/1.0	--	--	--	Yc/1.0
	04	1000	500	Ba/0.6	--	Bp/2.5	--	--	Hw/1.0	Hm/1.0	--	--	--	Yc/1.0
	05	1000	500	Ba/0.6	--	Bp/1.0	--	--	Hw/1.0	Hm/1.0	--	--	--	Yc/1.0
	06	1000	400	Ba/0.6	--	--	--	--	Hw/0.7	Hm/0.7	--	--	--	Yc/0.7
	07	1000	500	Ba/0.6	--	--	--	--	Hw/0.7	Hm/0.7	--	--	--	Yc/0.7
	08	1000	400	--	--	--	--	--	Hw/0.7	Hm/0.7	--	--	--	Yc/0.7
	09	1000	400	Ba/0.6	--	--	--	--	Hw/0.7	Hm/0.7	--	--	--	Yc/0.7

* - Refers to SUs which are may be managed for hardwoods under FSP s.8.5. For site series 01, hardwood management may only be applied on nutrient medium sites.

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General Species Notes for Appendix 1.1:

Bp – Initial regeneration of Bp (noble fir) is restricted to nutrient medium sites or better. Northerly aspects are to be avoided. Initial regeneration of Bp will not comprise more than a 20% component, to mitigate risk.

Bg – restricted to nutrient medium or richer sites.

Hm – Where this species is encountered outside of the MHmm1, Hm is a viable crop tree in areas transitional to the montane zone or in cold air drainages.

PI – Refers to Plc. The use of PI to meet the MSS is limited to 20%.

Pw – use of resistant stock mitigates risk of white pine blister rust. Do not use non-resistant stock for reforestation (unless pruned). Pw is to be from seed which has been selected to be resistant to *Cronartium ribicola* or is to be pruned prior to FG declaration. Pruned means consistent with BC Journal of Ecosystems and Management 10(1): 97-100, or any updates to the best available information on Pw pruning.

Ss – If Ss is from seed sources selected for high resistance to *Pissodes strobi*, the use of Ss to meet the MSS is unlimited in areas of moderate and high risk of spruce weevil damage; otherwise, the use of natural Ss to meet the MSS is limited to 20% in moderate-high spruce weevil risk areas.

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Appendix 1.2 – Minimum Horizontal Inter-Tree Distance

Minimum Horizontal Inter-Tree Distance (MITD) will be assigned at the Assessment Area level as per the table below.

MITD (m)	Site Series
1.5	<ul style="list-style-type: none"> (i) < 20 metres from road centreline; (ii) immediately adjacent to any: <ul style="list-style-type: none"> (A) stream – riparian area; (B) natural non-productive area; (C) unplantable slash; or (iii) on any: <ul style="list-style-type: none"> (A) talus site, landslide or avalanche track (B) hygric or wetter site; (C) very harsh site where protected microsites are critical; (D) area where stump avoidance is necessary on a root rot site; (E) area extensively utilized for elk, deer or other wildlife habitat or browse (heavy elk use areas) for survival and to utilize slash; or (F) microsites that are preferable given the tree species or damaging agents, to those sites existing at regular 2.0 meters spacing. (iv) in SUs that are being managed for a target stocking of 1500 stems per hectare.
2.0	All other sites.

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Appendix 2 – Management Strategies or Principles for Recreation Trails

Appendix 2.1 Management Strategies for Knucklehead Trails (Recreation Project File: 16660-04/REC32600)

These principles apply to the Crown Land portions of the Knucklehead Winter Recreation Trails:

1. These principles provide management guidance and negate the need for legal objectives for the trails.
2. It is recognized that the Knucklehead Trails are within the productive working forest and is part of the timber harvesting land base (THLB). Buffers to the trail are not required and it is recognized that access to portions of the trail may be restricted from time to time due to harvesting and road building activities for safety reasons. Where such restrictions occur; alternate access will be provided, where practicable.
3. Forest management practices recognise the existence of the Knucklehead Trails and consider the contiguity, aesthetics and utility of the trails. Examples of management practices along the Knucklehead Trail include: cleaning the trail after harvest, trail relocation to areas of less impact, and selective harvesting and tree retention along the trail.
4. It is recognised that road crossings will be required on the Knucklehead Trails to provide access to resources.
5. It is recognised that some of the Knucklehead Recreation trails utilize old road grades that may be reactivated in the future to provide access to resources. These reactivated road grades will continue to provide for trail access once harvest activities are completed.
6. It is understood that Western Forest Products will commit to leaving culverts in on roads which are under their road permit and are not posing an environmental/safety risk. When/where deactivation becomes necessary, WFP commits to working with the Knucklehead Winter Recreation Association as to the level of deactivation required by Western Forest Products considering the environment, safety and the level of access required by the Knucklehead Winter Recreation Association.
7. Approval to carry out industrial activities within 10m of the Knucklehead Trails is required under section 16 of the Forest Recreation Regulations. Such approval will not be unreasonable withheld and be provided in a timely manner.

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