Western Forest Products Inc.
DEFINING A HIGHER STANDARD™

Timberlands
Management System

Forest Stewardship Plan

Mid Island

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 share information and work collaboratively with Wei Wai Kum First Nation, We Wai Kai First Nation, Tlowitsis Nation, K'ómoks First Nation and the Kwakiutl First Nation, and as appropriate, with Nanwakolas Council.

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

The Mid Island Forest Operation Forest Stewardship Plan (FSP) mainly encompasses TFL 39, Block 2, located in the vicinity of Sayward and Campbell 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 each 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, such as the Vancouver Island Land Use Plan, and sub-unit plans such as approved landscape unit plans.

This FSP includes one FDU, comprising TFL 39 Block 2, and Block 18 of the Pacific TSA, where each Holder of the FSP is involved with cutblock development through joint ventures, as well as cutblocks with outstanding silviculture obligations. The entire area is within the Campbell River Forest District.

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

More information on FSPs is available at:

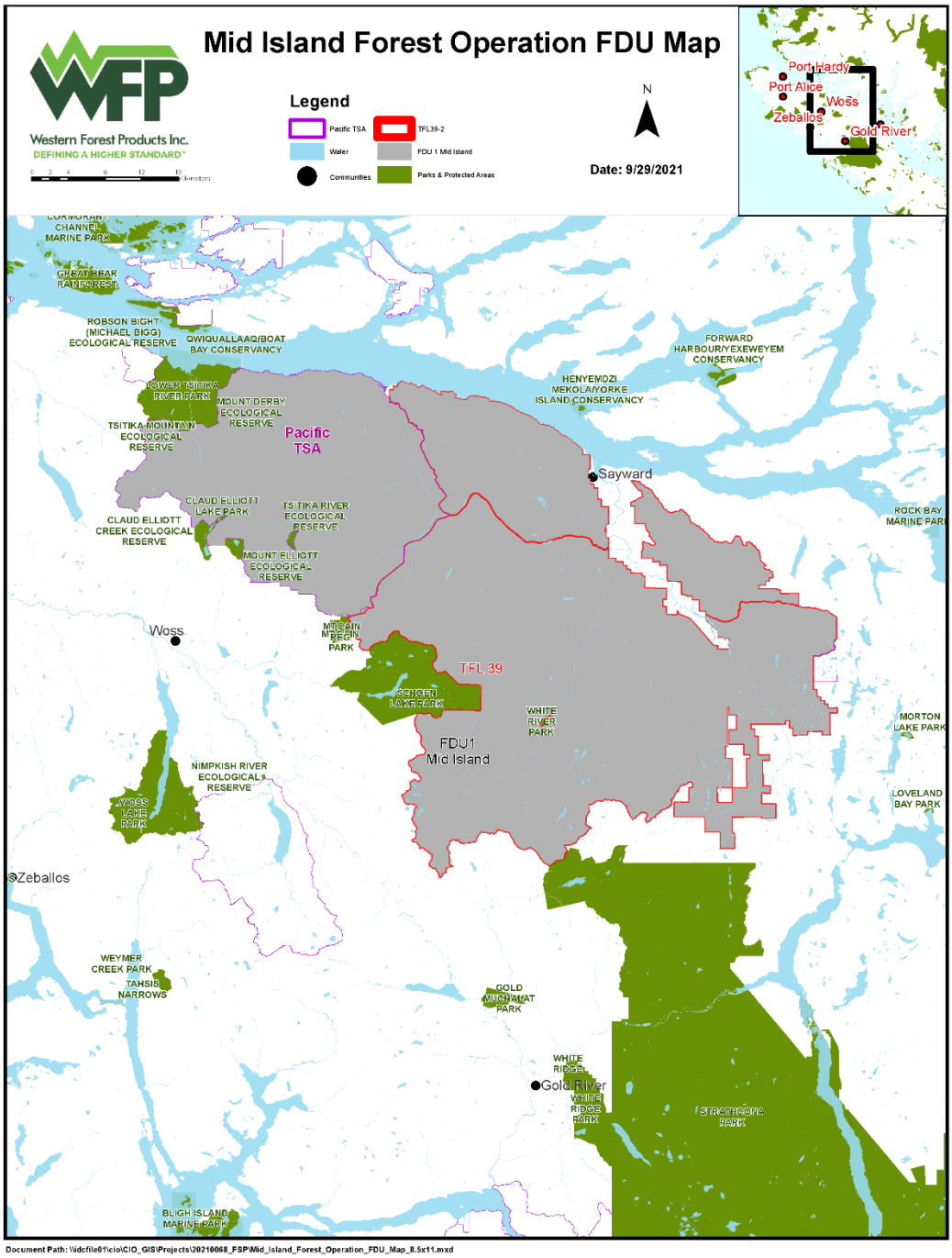
https://www2.gov.bc.ca/gov/content/industry/forestry/managing-our-forest-resources/forest-stewardship-plans. Comments should be directed to:

Western Forest Products Inc.
Mid Island Forest Operation
Attn. Bruce Vinnedge, RPF
Sr. Silviculture Forester
fsp@westernforest.com

Forest Stewardship Plan

Mid Island 2022-2027

Figure 1 – Mid Island Forest Operation – FSP Map



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).

"**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 2 (includes TLs within the TFL)
Nanwakolas Timber Limited Partnership	FL A94386
We Wai Kai First Nation	FL A85549

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 **FDU**, this **FSP** applies:
    a. to all cutblocks and roads subject to cutting permits issued to each **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 each **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 each **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 each **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 each **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 **FDU** 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** each **Holder** may elect to, for the purpose of otherwise specifying stocking standards, under **FRPA** ss.197(4), (5) or (7) within an **FDU** 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))

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 FDU

1. The boundaries of the **FDU** under this **FSP** are shown on the **FSP** map (Figure 1), are deemed to follow the boundaries of TFL 39 Block 2 and Pacific TSA Block 18, and to the extent that there is an inconsistency between the **FDU** Map and the boundaries of TFL Block 2 and Pacific TSA Block 18, the boundaries of TFL 39 Block 2 and Pacific TSA Block 18 govern.

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 **FDU** that is 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 Within FDUs Considered to be Approved (FRPA ss.196(1) and (2) and FPPR s.14(1)(c) and s.110)

1. Not applicable.

5.7 Areas within FDU 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 within FDUs Subject to Cutting Permit or Road Permit (FPPR s.14(3)(j))

1. List all the cutting permits and road permits in a table. Add in with the next round.
2. Blanket CPs issued for the purposes of salvage are listed in the following table:

Tenure	CP
TFL 39-2	198, 199

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

1. List at the time of submission.

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
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.		

6.1.1 Soil Disturbance Limits

Exemption from Result or Strategy – FPPR s.5

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

6.2 Timber

OBJECTIVE SOURCE: TIMBER		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 14/2004	FPPR s.6	January 31, 2004

The objectives set by government for timber are to

a) maintain or enhance an economically valuable supply of commercial timber from British Columbia's forests,
b) 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
c) 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.

<u>Exemption from Result or Strategy – FPPR s.6</u>

1. In accordance with **FPPR** s.12(8), each **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

1. 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
   a) the survival of species at risk,
   b) the survival of regionally important wildlife, and
   c) the winter survival of specified ungulate species.
2. 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
   a) species referred to in subsection (1), and
   b) indicators of the amount, distribution and attributes of wildlife habitat described in subsection (1).
3. 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.

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 Campbell River Forest District.	July 27, 2004

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

"**DCR 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 Campbell River Forest District (2004)".

"**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. 17/2004	Order – Wildlife Habitat Areas #1-085 to 1-088 and 1-090 to 1-096	December 1, 2004
The Deputy Minister of Water, Land and Air Protection orders that: *1. the wildlife habitat areas shown in the maps set out in the attached Schedules A(# 1-085 to 1-088 and 1-090 to 1-096) are established;* *2. the wildlife habitat areas in the attached Schedules A are established for Queen Charlotte Goshawks (Accipiter gentilis laingi); and* *3. the general wildlife measures outlined in Schedule 1 are established for the wildlife habitat areas in the attached Schedules A* *4. pursuant to section 7(3) of the Forest Planning and Practices Regulation the person(s) required to prepare a forest stewardship plan are hereby exempted from the obligation to prepare results or strategies in relation to the objective set out in section 7(1) of the Forest Planning and Practices Regulation for Queen Charlotte Goshawk in the Campbell River Forest District.*		

OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	**Category/Source**	**Effective Date of Objective**
Schedule 1 - General Wildlife Measures *1. Access* • *Do not construct roads within WHA unless an exemption is approved by the designated decision maker.* *2. Harvesting and Silviculture* • *Do not harvest timber or salvage (e.g. cedar) except for traditional aboriginal purposes when an exemption is approved by the designated decision maker.* • *Do not commercial thin, cedar-shake harvest or salal harvest within WHA unless the designated decision maker approves an exemption or harvest of these items is for traditional aboriginal purposes.* *3. Additional Management Considerations:* • *Minimize disturbance when working adjacent to a WHA between 15 February and 1 September. In general, avoid blasting, road construction, helicopter activity and other prolonged disturbance.*		

Exemption from Result or Strategy – "Order – Wildlife Habitat Areas #1-085 to 1-088 and 1-090 to 1-096"

1. General Wildlife Measures have been established and the wildlife habitat area amount in the **DCR s.7 Notice** has been met for this species; therefore, each **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 Red-Legged Frog (*Rana aurora*)

OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 582/2004 ss.9(2) and 10(1).	Order – Wildlife Habitat Areas – WHA 1-481, I-482, I-483, 1-484, I-485, I-486 Red-legged Frogs, Campbell River Natural Resource District	April 1, 2014
1.c) pursuant to section 7(3) of the *Forest Planning and Practices Regulation* the person(s) required to prepare a forest stewardship plan are hereby exempted from the obligation to prepare results or strategies in relation to the objective set out in section 7(1) of the *Forest Planning and Practices Regulation* to the extent that wildlife habitat areas I-481 ,1-482,1-483,1-484,1-485,1-486 address the amount included for Red-legged Frogs in the Notice for the Campbell River Natural Resource District *Schedule 1 - General Wildlife Measures (GWMs):* *Access*		

OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	**Category/Source**	**Effective Date of Objective**
1. Do not construct roads. *2. An authorized person who carries out a primary forest activity within WHAs with existing roads must conduct the activity at a time and in a manner that is unlikely to create road generated sedimentation that would harm Red-legged Frogs or destroy, damage or harmfully alter Red-legged Frog breeding habitat in the WHA.* *Harvesting and silviculture* *3. Do not fell trees or conduct timber harvesting, salvage or silvicultural activities, including crown modifications or windfirming treatments.* *4. GWM 3 does not apply for felling of danger trees for worker safety and where guyline anchors and tailholds are required to facilitate timber harvesting outside a WHA.* *5. Trees felled in accordance with GWM 3 must be retained on-site to provide coarse woody debris.* *Pesticides* *6. Do not use pesticides, except for the control for invasive plants or noxious weeds and applied:* *a) by stem injection, cut and paint, foliar wipe or other direct plant application; or* *b) by spot spraying for individual plants or cluster of plants if direct plant application is not practicable; and* *c) with no direct application to either Red-legged Frogs or water.*		

Exemption from Result or Strategy – "Order – Wildlife Habitat Areas – WHA 1-481, I-482, I-483, 1-484, I-485, I-486 Red-legged Frogs, Campbell River Natural Resource District"

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

6.3.1.3 Marbled Murrelet (*Brachyramphus marmoratus*)

OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK		
Authority	**Category/Source**	**Effective Date of Objective**
FPC ss.3(1-2), 9.1	Vancouver Island Land Use Plan – Higher Level Plan Order, Objective 16	December 1, 2000
16. Beyond retention in the non-contributing land base, retain old forests in the timber harvesting land base, up to the full target amount, if the district manager and the designated environment official determine that such retention is required to maintain critical marbled murrelet habitat.		

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 Campbell River Forest District.	July 27, 2004

2) Marbled Murrelet (Brachyramphus marmoratus)

Amount:

1. *An amount of suitable nesting habitat equivalent to a net mature timber harvesting landbase impact of 1431 ha.*
2. *An amount of habitat in the non-contributing landbase equal to the total amount of currently suitable nesting habitat in the non-contributing landbase.*
3. *Government policy for determining the amount of suitable nesting habitat is provided in the species account for Marbled Murrelet in the Accounts and Measures for Managing Identified Wildlife (Identified Wildlife Management Strategy Version 2004).*

Distribution:

1. *The amount of habitat referenced above must be distributed to provide:*
   - *areas of suitable nesting habitat of the size and spatial distribution identified in the species account for Marbled Murrelet in the Accounts and Measures for Managing Identified Wildlife (Identified Wildlife Management Strategy Version 2004).*
2. *Locate the areas described above within the ecosections and preferred elevations identified in the species account for Marbled Murrelet in the Accounts and Measures for Managing Identified Wildlife in the Identified Wildlife Management Strategy Version 2004.*

Attributes:

1. *Use the species account for Marbled Murrelet in the Accounts and Measures for Managing Identified Wildlife (Identified Wildlife Management Strategy Version 2004) to identify the attributes of suitable nesting habitat and goals for the management of wildlife habitat areas.*

Result or Strategy – DCR s.7 Notice and "Vancouver Island Land Use Plan Order", Objective 16

1. For TFL 39-2:
   a. Subject to the conditions listed below, to comply with the **DCR s.7 Notice**, as updated from time to time**,** the **Holder**:
      i. Will maintain:
         I. A proportional amount of suitable nesting habitat equivalent to the net mature timber harvesting landbase required in the Notice which will update as new WHAs that are subsequently established are subtracted from the proportional amount, and
         II. Will maintain the amount of habitat in the non-contributing landbase equal to the total amount of currently suitable nesting habitat in the non-contributing landbase;

III. Will maintain a proportional amount of suitable nesting habitat by landscape unit and landscape unit aggregate;

b. The **Holder** will maintain the suitable nesting habitat target area that is established by a Land Use Objectives Regulation Order, or

c. If the district manager and the designated environment official determine that VILUP Objective 16 retention is required to maintain critical marbled murrelet habitat, the **Holder** will retain old forests in the timber harvesting land base, up to the full target amount in RMZ 28, through landscape unit planning;

and

2. For Block 18, Pacific TSA:

a. The **Holder** will comply with the **DCR s.7 Notice** proportional habitat requirements and Land Use Objectives Regulation Orders for Block 18 of the Pacific TSA, as agreed with the holders of the BCTS FSP #659 or its successor plan.

6.3.1.4 Great Blue Heron (*Ardea herodias fannini*

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 Campbell River Forest District.	July 27, 2004
5) Great Blue Heron (Ardea herodias fannini) *Amount:* *1. 160 ha of suitable habitat not exceeding an impact to the mature timber harvesting landbase of 24 ha.* *Distribution:* *1. The amount of habitat referenced above must be distributed to provide:* *• areas of suitable habitat of the size, spatial distribution and connectivity identified in the species account for Great Blue Heron in the Accounts and Measures for Managing Identified Wildlife (Identified Wildlife Management Strategy Version 2004).* *2. Locate the areas described above within the ecosections and preferred elevations identified in the species account for Great Blue Heron in the Accounts and Measures for Managing Identified Wildlife (Identified Wildlife Management Strategy Version 2004).* *Attributes:* *1. Use the species account for Great Blue Heron in the Accounts and Measures for Managing Identified Wildlife (Identified Wildlife Management Strategy Version 2004) to identify the attributes of suitable nesting habitat and goals for the management of wildlife habitat areas.*		
Great Blue Heron Potential Habitat Proportional Amount Calculation		

OBJECTIVE SOURCE: WILDLIFE: SPECIES AT RISK				
Authority	**Category/Source**			**Effective Date of Objective**
Geographic Area	***Proportion***	***Proportional Area (ha)***	***Proportional THLB (ha)***	
TFL 39 Block 2	*0.047358*	*7.6*	*1.1*	
Pacific TSA Block 18	*0.045542*	*7.3*	*1.1*	

Result or Strategy – DCR s.7 Notice

1. For TFL 39 Block 2:
    a. For the purposes of the **DCR s.7 Notice,** as a **Result** or **Strategy**, each **Holder** will maintain a proportional amount of suitable habitat required in the **DCR 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 **DCR s.7 Notice** is 7.6 ha total, of which 1.1 ha is in the timber harvesting land base, on the effective date of this **FSP**.
2. For Block 18, Pacific TSA:
    a. For the purposes of the **DCR s.7 Notice**, as a **Result** or **Strategy**, and as agreed with the holders of the BCTS FSP #659 or its successor plan, each **Holder** will maintain a proportional amount of suitable habitat required in the **DCR 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 **DCR s.7 Notice** is 7.3 ha total, of which 1.1 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 - Black-Tailed Deer (*Odocoileus hemionus columbianus*) and Elk (*Cervus elaphus roosevelti*)

OBJECTIVE SOURCE: WILDLIFE: WINTER SURVIVAL OF SPECIFIED UNGULATE SPECIES		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 107/98 ss.69(1)(a) and (b)	Order – Ungulate Winter Range #U1-004 - TFL 39-2	December 17, 2003

OBJECTIVE SOURCE: WILDLIFE: WINTER SURVIVAL OF SPECIFIED UNGULATE SPECIES		
Authority	**Category/Source**	**Effective Date of Objective**
Management Objectives *Objective 1: Road construction is not to occur within the designated ungulate winter ranges unless there is no other practicable option, the quality of the winter ranges will not be significantly affected, and a variance is approved by the MWLAP Statutory Decision Maker or designate.* *Objective 2: Harvesting is not to occur within the designated ungulate winter ranges unless a variance is approved by the MWLAP Statutory Decision Maker or designate. A variance would only normally be considered for the purposes of enhancing the quality of the winter range.* *Objective 3: Salvage harvesting is not to occur within the designated ungulate winter ranges, unless a variance is approved by the MWLAP Statutory Decision Maker or designate.* *Objective 4: Road maintenance, road deactivation, felling of danger trees or brushing and clearing on existing roads within the UWR is allowed. Where required to address worker safety, felling of danger trees, felling for guy line anchors, felling of tail hold anchor trees within an UWR is allowed along adjacent cutblock boundaries. Any trees that must be felled within an UWR will be left onsite to provide coarse woody debris, unless the felled tree lies outside the UWR. The holder of TFL 39 Block 2 will ensure that UWR values are maintained and incorporated when addressing worker safety concerns.*		

Result or Strategy – "Order – Ungulate Winter Range #U1-004 - TFL 39-2"

1. As a **Result** or **Strategy**, each **Holder** will conduct its **Primary Forest Activities** in the area within the **FDU** subject to the "Order – Ungulate Winter Range #U1-004 - TFL 39-2", consistent with the Management Objectives in that Order. For clarity, Order #U1-004 included the entire **FDU** on the effective date, except for the area included in the Sayward Landscape Unit.

OBJECTIVE SOURCE: WILDLIFE: WINTER SURVIVAL OF SPECIFIED UNGULATE SPECIES		
Authority	**Category/Source**	**Effective Date of Objective**
FPC s.4	Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit, Objective 3	July 1, 2003
Provide for spring forage adjacent to Ungulate Winter Ranges/Deer, as indicated on the Sayward Landscape Unit map, titled Biodiversity and Wildlife by managing seral stages as follows: Identifying Ungulate Winter Ranges/Deer within Tree Farm Licence 39 and managing as per the Weyerhaeuser Standard Operating Procedure for the management of critical spring forage adjacent to black-tailed deer winter ranges, dated and approved July 9, 2001.		

Result or Strategy – "Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit", Objective 3

2. As a **Result** or **Strategy**, each **Holder** will conduct its **Primary Forest Activities** in that portion of TFL 39 subject to the "Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit," Objective 3, consistent with the applicable portion of Objective 3.

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
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.		

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))

1. For the purposes of **FPPR** s.12.3(1), each **Holder** adopts **FPPR** ss.47(4) to (6) as a **Result** or **Strategy**.
2. For the purposes of **FPPR** s.12.3(2), each **Holder** adopts **FPPR** ss.48(3) to (5) as a **Result** or **Strategy**.
3. For the purposes of **FPPR** s.12.3(3), each **Holder** adopts **FPPR** ss.49(2) to (4) as a **Result** or **Strategy**.
4. For the purposes of **FPPR** s.12.3(4), each **Holder** adopts **FPPR** s.50(1) as a **Result** or **Strategy**.
5. For the purposes of **FPPR** s.12.3(5), each **Holder** adopts **FPPR** ss.51(1) and (3) as a **Result** or **Strategy**.
6. For the purposes of **FPPR** s.12.3(6), each **Holder** adopts **FPPR** s.52(2) as a **Result** or **Strategy**.
7. 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
(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, each Holder will:
    a. Ensure that prior to harvesting, retention levels within RMZs are determined by a qualified professional through a riparian assessment that considers:
        i. All the factors listed in Schedule 1, s.2 of the **FPPR**; and
        ii. Potential site-specific safety and operational issues;

b. 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
c. Plan and conduct primary forest activities consistent with the assessment and design in this **Result** or **Strategy**.

OBJECTIVE SOURCE: WATER, FISH, WILDLIFE AND BIODIVERSITY WITHIN RIPARIAN AREAS		
Authority	**Category/Source**	**Effective Date of Objective**
FPC s.4	Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit, Objective 5	July 1, 2003
To manage stand structure and protect Critical Stream Reaches, as shown on the Sayward Landscape Unit map, titled Lakes Classification, and Small Spawning and Rearing Streams (S4) by: • *Retaining all windfirm trees with roots embedded in the bank; and* • *For S4 streams, retaining 50% of the stems, representative of species, age and size, within 10 m of the channel.*		

<u>Result or Strategy – "Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit," Objective 5</u>

9. Within the Sayward Landscape Unit Plan area in **FDU** 1, as a **Result** or **Strategy,** when carrying out a **Primary Forest Activity**, each **Holder** will comply with the "Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit," Objective 5.

OBJECTIVE SOURCE: WATER, FISH, WILDLIFE AND BIODIVERSITY WITHIN RIPARIAN AREAS		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 201/2002, s.64	Establishing Riparian Reserve Zones and Riparian Management Zones for Lakes	February 26, 2003
The management objective for established RRZs is as follows: *To manage for fisheries values within those areas noted as Riparian Reserve Zones as shown on the Sayward Landscape Unit map, titled Lakeshore Management by:* • *Prohibiting timber harvesting, including salvage, unless such activities occur within established recreation sites and/or trails and are complementary to the recreation setting and experience as determined by the Statutory Decision Maker, and* • *Prohibiting road construction unless no other practicable options exist as determined by the Statutory Decision Maker.* *Also, pursuant to section 64 of the Forest Practices Code Act (FPC) Operational and Site Plan Regulation, I Rory Annett, District Manager for the Campbell River Forest District establish riparian management zones (RMZs) for the following lakes within the Sayward landscape unit: McIvor, Beaver, Comeback, Hemp, Lawnchair, Lily, Little Mud, Pocket, Reed, Sedge, Shadow, Smolt, Star, and Whistlepunk.* *The management objective for established RMZs is as follows:* *To ensure that for a distance of 50 metres from the timbered edge surrounding the following lakes within the Sayward Landscape Unit: McIvor, Beaver, Comeback, Hemp, Lawnchair, Lily, Little Mud,*		

OBJECTIVE SOURCE: WATER, FISH, WILDLIFE AND BIODIVERSITY WITHIN RIPARIAN AREAS		
Authority	**Category/Source**	**Effective Date of Objective**
Pocket, Reed, Sedge, Shadow, Smolt, Star, and Whistlepunk, that no more than 25% of the forested area be less than 5 metres in height.		

Result or Strategy – "Establishing Riparian Reserve Zones and Riparian Management Zones for Lakes"

10. Within the Sayward Landscape Unit Plan area in **FDU** 1, as a **Result** or **Strategy**, each **Holder** will, when carrying out a **Primary Forest Activity**, ensure that no more than 25% of the forested area within 50 m of the timbered edge of Pocket, Lawnchair, Sedge and Beaver Lakes[1] in the Sayward Landscape Unit will be less than 5 m in height.

6.5 Fish Habitat in Fisheries Sensitive Watersheds

OBJECTIVE SOURCE: FISH HABITAT IN FISHERIES SENSITIVE WATERSHEDS		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 582/2004 ss.14(1) and 14(2)	Order – Fisheries Sensitive Watersheds – Vancouver Island, Schedule B	December 28, 2005
For each of the Fisheries Sensitive Watersheds identified by this Order, the objective is to provide, within the normal forest rotation, special management of the amount, timing, and distribution of primary forest activities, in order to: *i. conserve the natural hydrological conditions, natural stream bed dynamics and integrity of stream channels in the Fisheries Sensitive Watershed;* *ii. conserve the quality, quantity and timing of water flows required by fish in the Fisheries Sensitive Watershed, and* *iii. prevent the cumulative hydrological effects of primary forest activities in the Fisheries Sensitive Watershed from resulting in a material adverse impact on the fish habitat of the watershed.*		

Definitions for the purposes section 6.5 of this FSP

"**Equivalent Clear-Cut Area (ECA)**" means, for the purposes of tracking ECA, the R1b hydrologic recovery curve from TR-032[2] 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

[1] The lakes listed are those from "Establishing Riparian Reserve Zones and Riparian Management Zones for Lakes" (February 26, 2003) that are within FDU 1.

[2] Hudson, R. and G. Horel. 2007. Technical Report TR-032/2007.

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 fisheries sensitive watershed (FSW) 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 FSW objectives.

Result or Strategy – FPPR s.8.1

1. For the purposes of **FPPR** s.8.1 and to comply with the "Order – Fisheries Sensitive Watersheds – Vancouver Island, Schedule B", as a **Result** or **Strategy** within the Memekay Fisheries Sensitive Watershed (FSW), each **Holder** will conduct **Primary Forest Activities** in a manner that is consistent with recommendations from a **Watershed Assessment** or **Hydrologic Assessment**;
2. A **Watershed Assessment** must be prepared where the equivalent clear-cut area (**ECA**) meets or exceeds 20% of the FSW area;
3. A **Hydrologic Assessment** will be adequate where the **ECA** is less than 20% of the FSW area;
4. The practice recommendations in a **Watershed Assessment** may be modified by a subsequent **Hydrologic Assessment**; and
5. **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).

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
1. In this section, "community watershed" means a community watershed *a. that is continued under section 180 (e) of the Act, and* *b. for which a water quality objective has not been* *i. continued under section 181 of the Act, or* *ii. established under the Government Actions Regulation.* *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* *a. a material adverse impact on the quantity of water or the timing of the flow of the water to the waterworks, or* *b. the water from the waterworks having a material adverse impact on human health that cannot be addressed by water treatment required under* *i. an enactment, or*		

OBJECTIVE SOURCE: WATER IN COMMUNITY WATERSHEDS		
Authority	**Category/Source**	**Effective Date of Objective**
ii. the licence pertaining to the waterworks. *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.*		

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-032[3] 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

1. For the purposes of **FPPR** s.8.2, as a **Result** or **Strategy** within the Newcastle Creek community watershed (CWS), each **Holder** will conduct **Primary Forest Activities** in a manner that is consistent with recommendations from a **Watershed Assessment** or **Hydrologic Assessment**;
2. A **Watershed Assessment** must be prepared where the equivalent clear-cut area (ECA) meets or exceeds 20% of the **CWS** area;
3. A **Hydrologic Assessment** will be adequate where the **ECA** is less than 20% of the CWS area;
4. The practice recommendations in a **Watershed Assessment** may be modified by a subsequent **Hydrologic Assessment**; and
5. **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).

[3] Hudson, R. and G. Horel. 2007. Technical Report TR-032/2007.

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
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.		

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.

"**Enhanced Forestry Zone (EFZ)**" means a Resource Management Zone (RMZ) established in Section I.B. of the Vancouver Island Land Use Plan – Higher Level Plan Order (VILUP Order).

"**General Management Zone (GMZ)**" means an RMZ established in Section I.C. of the VILUP Order.

"Special Management Zone (SMZ)" means an RMZ established in Section I.A. of the VILUP Order.

"**VILUP Order**" means the "Vancouver Island Land Use Plan – Higher Level Plan Order" (2000).

6.7.1 Cutblock Size and Adjacency Limits

6.7.1.1 Special Management Zones

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: CUTBLOCK SIZE AND ADJACENCY LIMITS		
Authority	**Category/Source**	**Effective Date of Objective**
FPC s.3(1), 3(2) and 9.1	VILUP Order Objectives 1(b) and (c), 2	December 1, 2000
1. Sustain forest ecosystem structure and function in SMZs, by: *b. retaining, within cutblocks[4], structural forest attributes and elements with important biodiversity functions[5], and*		

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: CUTBLOCK SIZE AND ADJACENCY LIMITS		
Authority	**Category/Source**	**Effective Date of Objective**
c. applying a variety of silvicultural systems, patch sizes and patch shapes across the zone, subject to a maximum cutblock size of 5 ha if clear-cut, clearcut with reserves or seed tree silvicultural systems are applied, and 40 ha if shelterwood, selection or retention silvicultural systems are applied. *2. Despite subsection 1(c) above, cutblocks larger than 5 or 40 ha, as the case may be, may be approved if harvesting is being carried out to recover timber that was damaged by fire, insects, wind or other similar events and wherever possible, the cutblock incorporates structural characteristics of natural disturbances.* **[N.B. Objective 2 is provided for completeness for the Reader but is superseded by FPPR s.64(2) and cannot be included in a Result or Strategy].** *Footnote 4: Within cutblocks: generally, means non-contiguous with cutblock boundaries.* *Footnote 5: This includes, but is not limited to snags, wildlife trees, downed logs.*		

Result or Strategy – Special Management Zones – FPPR s.12.4(1)

1. In **Special Management Zones**, for the purposes of **FPPR** s.12.4(1), as a **Result** or **Strategy**, each **Holder**:
    a. Adopts **VILUP Order** Objective 1(c) for the net area to be reforested within a cutblock; and
    b. Where cutblocks are larger than 5 ha, each **Holder** will implement **VILUP Order** Objective 1(b) by applying a retention silvicultural system.

Result or Strategy – Special Management Zones – FPPR s.12.4(2)

2. In **Special Management Zones**, for the purposes of **FPPR** s.12.4(2), as a **Result** or **Strategy**, each **Holder** must not harvest timber on a **New Cutblock**, unless:
    a. All **Existing Cutblocks** that are adjacent to the **New Cutblock** meet the requirements set out in section 3 of this **Result** or **Strategy**, or
    b. 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 paragraph 1 of section 6.7.1.1 of this **FSP**.
3. For the purposes of section 2.a, an **Existing Cutblock** must meet the criteria set out in one of the following paragraphs:
    a. 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
        i. Is stocked in accordance with the applicable stocking standards for that cutblock; or
        ii. Is stocked with at least 500 trees per ha of a commercially valuable species that are at least 1.3 m in height;

    or

    b. The part of the net area to be reforest 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.

6.7.1.2 General Management Zones

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: CUTBLOCK SIZE AND ADJACENCY LIMITS		
Authority	**Category/Source**	**Effective Date of Objective**
FPC s.4	Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit, Objective 6	July 1, 2003
To establish a patch size objective and pursue enhanced timber harvesting opportunities, within areas not subject to integrated resource management (i.e., ungulate winter ranges, elk hiding cover areas, old growth management areas, recreation resource units, visually sensitive landscapes, recreation constraint areas, lakeshore management zones, and designated community watersheds) and as shown as Non-constraint Areas on the Sayward Landscape Unit map titled, Non-constraint Areas, by allowing cutblocks up to, but not exceeding 80 ha in size.		

Result or Strategy – General Management Zones – FPPR s.12.4(1) and 'Order to Establish a Landscape Unit and Objective – Sayward Landscape Unit', Objective 6

1. In **General Management Zones**, for the purposes of **FPPR** s.12.4(1), as a **Result** or **Strategy**, each **Holder** adopts **FPPR** s.64(1), except:
    a. In the Sayward Landscape Unit Plan area in FDU 1, each **Holder** adopts Objective 6 of the 'Order to Establish a Landscape Unit and Objective – Sayward Landscape Unit'.

Result or Strategy – General Management Zones – FPPR s.12.4(2)

2. In **General Management Zones**, for the purposes of **FPPR** s.12.4(2), as a **Result** or **Strategy**, each **Holder** must not harvest timber on a **New Cutblock**, unless:
    a. All **Existing Cutblocks** that are adjacent to the **New Cutblock** meet the requirements set out in section 3 of this **Result** or **Strategy**, or
    b. 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 paragaph 1 of section 6.7.1.2 of this **FSP**.
3. For the purposes of section 2.a, an **Existing Cutblock** must meet the criteria set out in one of the following paragraphs:
    a. 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

i. Is stocked in accordance with the applicable stocking standards for that cutblock; or
ii. Is stocked with at least 500 trees per ha of a commercially valuable species that are at least 1.3 m in height;

or

b. The part of the net area to be reforest 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.

6.7.1.3 Enhanced Forest Management Zones

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: CUTBLOCK SIZE AND ADJACENCY LIMITS		
Authority	**Category/Source**	**Effective Date of Objective**
FPC s.3(1), 3(2) and 9.1	VILUP Order Objectives 7, 8	December 1, 2000
7. To increase the short-term availability of timber, *a. a cutblock may be larger than 40 ha pursuant to section 11(2)(a) of the OPR, and* *b. pursuant to section 68(4) of the OPR, a cutblock is greened-up if it is adequately stocked and the average height of those trees that are* *i. the tallest tree in each 0.01 ha plot included in a representative sample, and* *ii. a commercially valuable species or other species acceptable to the district manager is at least 1.3 meters;* *unless the district manager determines that a cutblock referred to under (a) or (b) would significantly impact specific hydrological, wildlife, biodiversity, scenic or recreation values.* *8. Avoid or mitigate adverse hydrological impacts, which may result from the practices referred to in objective 7, in watersheds with significant watershed sensitivity and significant fisheries values, as determined by the district manager and designated environment official.* **[N.B. Objective 8 is provided for completeness for the Reader but is addressed by ss.6.5 and 6.6 of this FSP.**		

<u>Definitions for the purposes of s.6.7.1.3 of this FSP</u>

"**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.

"**Retention Silvicultural System**" means a silvicultural system that is designed to:

- retain individual trees or groups of trees to maintain structural diversity over the area of the cutblock for at least one rotation, and
- leave more than half the total area of the cutblock within one tree height from the base of a tree or group of trees, whether or not the tree or group of trees is inside the cutblock.

Result or Strategy – Enhanced Forestry Zones – FPPR s.12.4(1)

1. In **Enhanced Forestry Zones**, for the purposes of **FPPR** s.12.4(1), as a **Result** or **Strategy**, to increase the short-term availability of timber, a cutblock may be larger than 40 ha, provided that the **Holder** conducts **Primary Forest Activities** in a manner consistent with:
    a. To address biodiversity, using a **Retention Silvicultural System**; and
    b. The practice recommendations contained in the most current applicable **Hydrologic Assessment**.

Result or Strategy – Enhanced Forestry Zones – FPPR s.12.4(2)

2. In **Enhanced Forest Management Zones**, for the purposes of **FPPR** s.12.4(2), as a **Result** or **Strategy**, each **Holder** must not harvest timber on a **New Cutblock**, unless:
    a. All **Existing Cutblocks** that are adjacent to the **New Cutblock** meet the requirements set out in section 3 of this **Result** or **Strategy**; or
    b. 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 section 1 of this **Result** or **Strategy**.
3. For the purposes of section 2.a, an **Existing Cutblock** must meet the criteria set out in one of the following paragraphs:
    a. 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 1.3 m and
        i. Is stocked in accordance with the applicable stocking standards for that cutblock; or
        ii. Is stocked with at least 500 trees per ha of a commercially valuable species;

    or

    b. The part of the net area to be reforest 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 1.3 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.

6.7.2 Mature and Old Seral Stages – Special Management Zones

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: MATURE AND OLD SERAL STAGES – SPECIAL MANAGEMENT ZONES		
Authority	**Category/Source**	**Effective Date of Objective**
FPC s.3(1), 3(2) and 9.1	VILUP Order, Objective 1(a)	October 24, 2000

1. Sustain forest ecosystem structure and function in SMZs, by:
a) creating or maintaining stand structures and forest attributes associated with mature and old forests, subject to the following:
i. the target for mature seral forest should range between one quarter to one third of the forested area of each SMZ; and
ii. in SMZs where the area of mature forest is currently less than the mature target range referred to in (I) above, the target amount of mature forest must be in place within 50 years.

Mature and Old Forest in FDU 1, SMZ 11 (based on VRI data, 2020 reference year)

BEC Zone	*Mature and Old Forest*	*Total Forest Management Land Base*	*Proportion of Mature and Old Forest*
CWH	*3899*	*6797*	*57%*
MH	*1417*	*1575*	*90%*

Definitions for the Purposes of this Result or Strategy

"**Mature**" means forest stands 80-250 years old in the CWH zone, and 120-250 years old in the MH zone.

"**Old**" means forest stands greater than 250 years old.

Result or Strategy

1. For TFL 39, Block 2:
   a. Each **Holder** adopts VILUP Order Objective 1(a) as **Result** or **Strategy** in SMZ 11, and
   b. The **Result** or **Strategy** stated applies only to that portion of SMZ 11 within the **FDU** area.

   and
2. For Block 18, Pacific TSA:
   a. In accordance with FPPR s.12(2), each **Holder** adopts VILUP Order Objective 1(a) as **Result** or **Strategy** in SMZ 8; and
   b. Prior to harvest, each **Holder** will consult with the holders of the BCTS FSP #659 or its successor plan to meet this **Result** or **Strategy**.

6.7.3 Late Successional Habitat Elements and Attributes of Biodiversity – Special Management Zones

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: LATE SUCCESSIONAL HABITAT ELEMENTS AND ATTRIBUTES OF BIODIVERSITY – SPECIAL MANAGEMENT ZONES		
Authority	**Category/Source**	**Effective Date of Objective**
FPC s.3(1), 3(2) and 9.1	VILUP Order, Objectives 4 and 5	October 24, 2000
4. Maintain late-successional habitat elements and attributes of biodiversity in forested ecosystems with emphasis on regionally rare and underrepresented ecosystems, by retaining old seral forest at the site series/surrogate level of representation. *5. Retain late-successional habitat elements and attributes of biodiversity in patches of variable size.*		
See analysis table in Appendix 2.		

Definitions for the purposes of s.6.7.3 of this FSP

"**Late Successional Habitat Elements**" includes, but is not limited to: large diameter (> 60 cm) live, decaying and dead standing trees (providing nest and cavity sites); downed wood, including large diameter pieces (50 to 150 cm); deciduous broad-leaved trees, both in riparian and upland areas.[4]

"**Mappable**" means a minimum polygon size with a leading site series of 0.25 ha, or 1 cm^2 on a 1:5.000 scale map.

"**Regionally Rare Ecosystem**" means red and blue listed plant communities as defined by the BC Conservation Data Centre.

"**Terrestrial Ecosystem Mapping (TEM)**" is a standard approach to stratifying the landscape into map units according to ecological features using a combination of manual air-photo interpretation and ground sampling.

"**Underrepresented Ecosystem**" means any site series that is less than 2% of the special management zone forest management landbase.

"**Vegetation Resource Inventory (VRI)**" – a photo-based, two-phased vegetation inventory design consisting of photo interpretation and ground sampling.

Result or Strategy – VILUP Order, Objective 4

1. As a **Result** or **Strategy**, each **Holder** adopts VILUP Order Objective 4 in that portion of SMZ 11 in the **FDU**, subject to the following:
    a. Approved and proposed Old Growth Management Areas (OGMAs), stand level retention and the non-contributing land-base (NCLB) listed in Appendix 2, address the objectives, subject to the following conditions:

[4] Footnote 8, "Vancouver Island Land Use Plan, Higher Level Plan Order".

i. The analysis is in Appendix 2 based on current Provincial **TEM** and **VRI** data;
ii. Where the analysis data in Appendix 2 shows a deficit under the target amount, including proposed OGMAs, harvesting will not take place in a **Mappable Regionally Rare** or **Underrepresented Ecosystem**, if doing so will result in an area below the target amount, when deducted from the total, including proposed OGMAs, for that site series in the analysis in Appendix 2;
iii. Site plan field data must be collected by or under the direction of a qualified registered professional that has received training in the identification of **Regionally Rare** or **Underrepresented Ecosystem**, with special emphasis on CWHvm1-04, CWHvm1-06, CWHvm1-08 and CWHvm2-11 site series;
iv. Field data collection may be used to revise the table amounts in Appendix 2; and
v. Despite s.1.a.ii, right-of-way clearing and road construction may occur to the extent necessary for access through a **Regionally Rare** or **Underrepresented Ecosystem** that is below the target amount in the analysis, if no other practicable option exists.

Result or Strategy – VILUP Order, Objective 5

2. For the purposes of VILUP Order, Objective 5, each **Holder** will, as a **Result** or **Strategy** in that portion of SMZ 11 in the **FDU**, incorporate **Late Successional Habitat Elements** in wildlife tree retention areas where **Late Successional Habitat Elements** are within or immediately adjacent to a proposed cutblock.

6.7.4 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 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**
Land Act s.93.4	Land Use Objectives for Old Growth Management Areas in Tsitika, Naka, Adam-Eve, White, and Salmon Landscape Units in the Campbell River District, Part 2	July 26, 2010
1. Maintain or recruit old growth forests in established Old Growth Management Areas, as shown on the map attached as Schedule 1, subject to subsections (2) to (6) below. *2. Despite subsection (1), timber harvesting and road or bridge construction are permitted within OGMAs, provided that:*		

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: OLD GROWTH MANAGEMENT AREAS		
Authority	**Category/Source**	**Effective Date of Objective**

i. the area of the OGMA that is subject to timber harvesting or road or bridge construction does not exceed the greater of one hectare or 10% of the area of the OGMA,
ii. replacement forest is identified which is
i. biologically suitable
ii. of equivalent age, structure, and area, and
iii. situated in order of priority, either immediately adjacent to the OGMA, or adjacent to another OGMA in the same variant and landscape unit as the existing OGMA, and
iii. road or bridge construction, if applicable, is required to access resource values beyond or adjacent to the OGMA and no other practicable option for road or bridge location exists.

3. For the purposes of subsections (2) (b) and (c), as an alternative to identifying replacement area, a temporary road or bridge site may be permanently deactivated and rehabilitated within four years after construction.

4. Within OGMAs, the following activities are permitted:
a) First Nations traditional use of trees or understory plants.
b) Topping or pruning of trees along boundaries to improve wind firmness.
c) Timber harvesting to prevent the spread of insect infestations or diseases that pose significant threat to forested areas outside of OGMAs. Salvage within OGMAs will be done in a manner that retains as many old growth forest attributes as possible.
d) Road maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads under active tenure within the right-of way for safety purposes.
e) Felling for guyline clearance, tailhold anchor trees, or danger trees along cutblock boundaries or within the right-of-way on new road/bridge alignments to meet safety requirements.
f) Silvicultural habitat enhancement in recruitment OGMAs.
g) Trail and site maintenance or development, and silvicultural treatments to address public safety associated with the management and operation of recreation sites and trails.

5. Replacement forest is required if the total area of an OGMA that is subject to the activities pursuant to subsection (4) exceeds the greater of one hectare or 10% of the area of the OGMA. Replacement forest must be biologically suitable, of equivalent age, structure and area, and situated, in order of priority, either immediately adjacent to the OGMA, or adjacent to another OGMA in the same variant and landscape unit as the OGMA.

6. *OGMA adjustments and replacements made in accordance with subsections (2) to (5) must be documented and submitted as digital spatial data to the delegated decision maker at the end of each calendar year.*

<u>Result or Strategy – “Land Use Objectives for Old Growth Management Areas in Tsitika, Naka, Adam-Eve, White, and Salmon Landscape Units in the Campbell River District”, Part 2</u>

2. As a **Result** or **Strategy**, each **Holder** will conduct **Primary Forest Activities** in the area subject to the document titled “Land Use Objectives Old Growth Management Areas in Tsitika, Naka, Adam-Eve, White, and Salmon Landscape Units in the Campbell River District” in a manner consistent with Part 2 of the document titled “Land Use Objectives Old Growth Management Areas in Tsitika, Naka, Adam-Eve, White, and Salmon Landscape Units in the Campbell River District”; and

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 – Sayward Landscape Unit, Objective 1	July 1, 2003

1. *Maintain or recruit old growth forest attributes in designated old growth management areas (OGMA, OGMA/UWR for Deer, and OGMA/UWR for Elk), as shown on the attached Sayward Landscape Unit map, titled Biodiversity and Wildlife. Timber harvesting, including salvage, single tree selection, topping for cone harvesting, and commercial gathering of botanical forest products, will not be permitted within OGMAs except as specified in sections 2 and 3 below.*
2. *The Delegated Decision Maker (DDM) may allow operations to occur within an OGMA that are not to be established as UWR for Deer or Elk for reasons such as but not limited to the following:*
   1. *To prevent the spread of insect infestations or diseases that pose a significant threat to forested areas outside of OGMAs. This will be done in a manner that retains as many old growth forest attributes as possible.*
   2. *Construction of roads if no other practicable option exists.*
   3. *Partial-cut timber harvesting within immature (<100 years old) portions of OGMAs, 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.*

3. *The following do not require the approval of the Delegated Decision Maker before proceeding:*
   1. *Maintenance, deactivation, removal of danger trees, or brushing and clearing on existing roads under active tenure within the right-of-way for safety purposes.*
   2. *Felling of guyline clearance, tailhold anchor trees, or danger trees (except high value live wildlife trees) along cutblock boundaries or within the right of way on new road/bridge alignments to meet safety requirements. These trees are to be retained on site for coarse woody debris.*
   3. *Intrusions, less than 0.5 hectare in size for OGMAs that are not to established as UWR for Deer or Elk.*
   4. *OGMAs that are not to be established as UWR for Deer or Elk that are >10 ha in size may be modified for operational reasons provided that replacement OGMA of like or better quality and quantity is identified in order of priority, 1) immediately adjacent to the existing OGMA, or 2) in the same variant and landscape unit as the existing OGMA such that OGMA ecological attributes and spatial distribution are maintained or improved in one of the following categories:*
      i. *OGMAs ≥10 ha to <50 ha in size where the proposed development affects the OGMA by <5 ha,*
      ii. *OGMAs ≥50 ha to <100 ha in size where the proposed development affects the OGMA by <10 ha,*
      iii. *OGMAs ≥100 ha in size where the proposed development affects the OGMA by <10%.*
      iv. *Construction of ≤500m of road or a bridge within an OGMA where there is no other practicable option. As an alternative to finding replacement area, the licensee may deactivate or rehabilitate a temporary road or bridge site within four years after construction.*
      v. *Construction of rock quarries and gravel pits under authority of forest tenure where the development will be located immediately adjacent to existing roads under tenure and will affect the OGMA by <0.5 ha.*

3. As a **Result** or **Strategy**, each **Holder** will conduct its **Primary Forest Activities** in the area subject to the "Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit" in a manner consistent with the Objective 1 of the "Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit", with the additional allowed practice under Section 3 of the hereto Objective 1, of topping or pruning of trees along OGMA boundaries to improve wind firmness.

6.7.5 Old Growth Designated Area – H'Kusam

The following information is provided for the purposes of FPPR s.14(3)(i).

OBJECTIVE SOURCE: WILDLIFE AND BIODIVERSITY – LANDSCAPE LEVEL: OLD GROWTH DESIGNATED AREAS		
Authority	**Category/Source**	**Effective Date of Objective**
Forest Act s.169	Order in Council No. 500/2020	September 11, 2020
Executive Council Chambers, Victoria *On the recommendation of the undersigned, the Lieutenant Governor, by and with the advice and consent of the Executive Council, orders that, it being in the public interest, the Crown land outlined in heavy black and shaded grey on the maps on file with GeoBC, Ministry of Forests, Lands, Natural Resource Operations and Rural Development, with the file name Old_Growth_PT13_No1_20200722, is specified as the Old Growth Designated Area No. 1 under section 169 of the Forest Act for the period ending August 31, 2022.*		
BC Reg. 228/2020	Ministerial Order No. M338/2020	September 11, 2020
1. Subject to section 3, any part of a Permit or Licence pertaining to a right to cut, damage or destroy standing timber in a Suspended Harvest Area under that Permit or Licence is suspended. *2. Subject to section 3, a person referred to in section 170 of the Forest Act who has a discretion to issue a Permit or Licence is directed to not issue the Permit or Licence to the extent to which that Permit or Licence relates to the cutting, damage or destruction of standing timber in a Suspended Harvest Area.* *3. Sections 1 and 2 do not apply in relation to:* *a. A free use permit referred to in section 48 (1) (a.1), (b), (g) or (h) of the Forest Act;* *b. A licence to cut referred to in section 47.6 (2) (d) of the Forest Act, as that licence pertains to the cutting, damage or destruction of standing timber described in section 2 (1) of the Licence to Cut Regulation, B.C. Reg. # 221/2006;* *c. A cutting permit, timber sale licence or forestry licence to cut referred to in section 72 (2) of the Forest Act, as that permit or licence pertains to the cutting, damage or destruction of standing Damaged Timber;* *d. The right to cut, damage or destroy standing timber granted under a road permit, occupant licence to cut, or road use permit that is necessary to maintain or deactivate a road; or* *e. The areas of Crown land shown outlined in heavy black and shaded grey on the map titled "Central Walbran Valley" in Schedule 2 of this Order.* *4. Unless otherwise ordered, this Order is rescinded August 31, 2022.*		

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
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.		
FPC s.4	Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit, Objective 2	July 1, 2003

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

In addition:

1. *WTPs must be well distributed across the BEC subzone or variant.*
2. *No timber harvesting, including salvage or single tree selection, is to occur within Wildlife Tree Patches.*
3. *WTPs must include, if present, live, or dead veteran trees (excluding danger trees), or remnant old growth patches.*
4. *WTPs must include larger trees for the stand and any existing moderate to high value wildlife trees (excluding danger trees).*
5. *BEC subzones and/or variants will be determined by site plan information.*

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

BEC Subzone/Variant	*Wildlife Tree Retention %.*
CWHmm1 (Coastal Western Hemlock, Submontane moist maritime)	*13%.*
CWHmm2 (Coastal Western Hemlock, Montane moist maritime)	*10%.*
CWHxm (Coastal Western Hemlock Very Dry Maritime)	*14%.*
MHmm1 (Mountain Hemlock, Windward moist maritime)	*2%.*

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]

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

"**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)

1. For the purposes of **FPPR** s.12.5(1), as a **Result** or **Strategy**, each **Holder** will ensure that for each cutblock, the area[6] set aside for a **WTRA**:
    a. Is a minimum of:
        i. 7% of the sum total area of a cutblock; or
        ii. In the Sayward Landscape Unit Plan area, the amount specified in Objective 2, Table A of the "Order to Establish a Landscape Unit and Objectives – Sayward Landscape Unit", subject to ecosystem classification information collected during site plan field work;

    and

    b. Is within or immediately adjacent to the Cutblock to which the **WTRA** relates;
2. In the Sayward Landscape Unit Plan area:
    a. **WTRAs** must include, if present, live, or dead veteran trees (excluding danger trees), or remnant old growth patches; and
    b. **WTRAs** must include larger trees for the stand and any existing moderate to high value wildlife trees (excluding danger trees);

    and
3. 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.

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

4. For the purposes of **FPPR** s.12.5(2), as a **Result** or **Strategy**, each **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:
    a. Timber may be harvested for establishment of tail holds or guy line tiebacks;
    b. Danger trees may be felled; and
    c. Where a **Holder** modifies a previously established **WTP** or **WTRA**, the **Holder** will specify a replacement **WTRA** that is an **Equivalent Forested Area** if the modified **WTRA** or **WTP** is not reduced below the minimum area requirements listed in s.1 of this **Result** or **Strategy**.

[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.

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 the Campbell River Forest District	December 14, 2005
Pursuant to Section 2(2)(a) of the Forest and Range Practices Act, I have been delegated the authority to establish scenic areas and visual quality objectives. *Pursuant to Section 7(1) of the Government Actions Regulation (GAR), I hereby establish scenic areas for the Campbell River Forest District (CRFD) as depicted by all polygons that have a designated visual quality objective on the attached maps, numbered 1 through 7, titled Campbell River Forest District: Scenic Areas and Visual Quality Objectives, December 14, 2005. These scenic areas reflect adjustments and corrections to the scenic areas originally made known in my letters of October 2, 2001, and February 26, 2003.* *Also, pursuant to Section 7(2) of the GAR, I hereby establish visual quality objectives (VQOs) for the Campbell River Forest District as shown on the attached maps, numbered 1 through 7, titled Campbell River Forest District - Scenic Areas and Visual Quality Objectives, December 14, 2005. These VQOs cancel and replace those established under the Sayward Landscape Unit Plan on February 26, 2003, as well as the October 2, 2001, visual quality classes which were continued as VQOs pursuant to Section 17 of the GAR.* *These VQOs apply as mapped to all Crown lands in the CRFD, and also as mapped to all Schedule A private lands forming part of Forest Act tenures in the CRFD.*		

Result or Strategy – FPPR s.9.2

1. For the purposes of **FPPR** s.9.2, as a **Result** or **Strategy**, each **Holder** adopts the "Order – Establishment of Scenic Areas and Visual Quality Objectives for the Campbell River Forest District" (2005);
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. Each **Holder** will ensure that the recommendations in an applicable VIA are followed to the extent practicable, including mitigation measures such as 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, a **Holder** may make an application for an exemption to the objective under **FPPR** s.12(7).

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
The objective set by government for cultural heritage resources is to conserve, or, if necessary, protect cultural heritage resources that are *a) the focus of a traditional use by an aboriginal people that is of continuing importance to that people, and* *b) not regulated under the Heritage Conservation Act.*		

Definitions for the purposes of this Result or Strategy

"**CHR**" means Cultural Heritage Resource.

"**Cedar**" – includes both western red-cedar (*Thuja plicata*) and yellow-cedar (*Chamaecyparis nootkatensis*)

"**First Nation CHR Information**" means information regarding a potentially affected CHR within the **FDU** provided to each **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:

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.

6.10.1 Information Sharing

Result or Strategy – FPPR s.10

1. For the purposes of **FPPR** s.10, each **Holder** will, as a **Result** or **Strategy**, each **Holder** will, at least once each calendar year, for each First Nation with asserted traditional territory within the **FDU**:

   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 each **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 each **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 each **Holder**, and
3. Request from the Crown updated information regarding any potentially affected **CHR** that has not already been provided by the Crown to each **Holder**.

6.10.2 Monumental Cedar or Large Cultural Cedars

Result or Strategy – FPPR s.10

1. For the purposes of **FPPR** s.10, each **Holder** will, as a **Result** or **Strategy**, plant or promote natural regeneration of **Cedar** as a component of future stands on areas where:
   a. Each **Holder** has an obligation under **FRPA** s.29(1); and
   b. **Cedar** is ecologically suited;

   and
2. If requested by a First Nation with asserted traditional territory within the **FDU** that has historically utilized western red-cedar or yellow-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

BACKGROUND INFORMATION: RECREATION		
Authority	**Category/Source**	**Effective Date of Objective**
1. The minister may order *a) 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,* *b) the variance of the boundaries of an interpretive forest site, a recreation site or a recreation trail, and* *c) the disestablishment of an interpretive forest site, a recreation site or a recreation trail.* *2. [Repealed 2003-55-31.]* *3. The minister may establish an objective for an interpretive forest site, recreation site or recreation trail established under subsection (1).* *4. An objective established under subsection (1) must be consistent with objectives set by government that pertain to the area.*		

FRPA Value – Recreation

1. Each **Holder** manages **FRPA** s.56 and **FPC** s.102 established sites in accordance with the **FRPA** s.56 or grandfathered **FPC** s.102 agreement for the site, as amended from time to time. Note that recreation resource features have been established in the Campbell River Natural Resource District. See s.6.12 of this **FSP**.

6.12 FRPA Value: Resource Features

BACKGROUND INFORMATION: RESOURCE FEATURES		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 582/2004	Order to Identify Recreation Resource Features for the Campbell River Forest District	April 12, 2006
BC Reg. 582/2004	Order to Identify Karst Resource Features for the Campbell River Forest District	June 30, 2007
Pursuant to Section 5 of the Government Actions Regulation of the Forest and Range Practices Act (FRP A), I hereby identify the following surface or subsurface elements of a karst system as resource features wherever they are found within the Campbell River Forest District, effective June 30, 2007. • *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
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.		

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 specified in resource feature orders; therefore, **Results** or **Strategies** are not required. Current Orders are listed in the objective source table above. Each **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
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.		

Table 7.1 – Priority Species[7]

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 Plants[8]

[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).

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

a. It is likely that **Primary Forest Practices** will result in introduction or spread of **Priority Species**;
b. 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**;
c. It is reasonably expected that grass would grow on these exposed sites;
d. It is reasonably foreseeable that revegetation with grass seed would materially reduce the likelihood of invasive plant germination;
e. The area of exposed mineral soil is at least a contiguous 0.1 ha outside of a road prism; and
f. 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

1. For the purposes of **FPPR** s.17, each **Holder** will, as a **Measure**:
   a. Incorporate known invasive **Priority Species** into development plans and report new sites as they are discovered, by
      i. 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);
      ii. Distribute information to staff and contractors on **Priority Species** that exist or threaten to establish within the plan area, on an annual basis; and

iii. Inspecting work sites and reporting the size and location of new infestations of **Priority Species**;

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. Clean equipment within existing infestations of **Priority Species**, to the extent practicable, before moving to a new work site or region, by
   i. Pressure-washing mud from vehicles and equipment, while preventing run-off from contaminating waterways and riparian areas; or
   ii. Visually inspecting vehicles and equipment and removing lodged plant parts found;
e. Inspect and ensure fill and erosion-control materials are not taken from sites infested with **Priority Species**;
f. Minimize unnecessary soil disturbance and maintain native vegetation, especially in areas infested with **Priority Species**;
g. Revegetate a disturbed site that is an **Applicable Area** as soon as possible with weed-free Common No.1 Forage Mixture or better; and
h. 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
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.		
Existing Agreements under the Range Act with respect of grazing livestock on the effective date of this FSP: ***RAN075062*** *(Salmon River Main)****.***		

<u>Measure – FPPR s.18</u>

1. For the purposes of **FPPR** s.18, as a **Measure**, each **Holder** will:
   a. Each year under the term of this **FSP**, identify any areas within the **FDU** that are subject to or adjacent to agreements under the *Range Act* in respect of grazing livestock;
   b. Inform each of the affected holders of agreements under the *Range Act* of planned harvest and road construction within or adjacent to their agreement; and

c. Where the affected holder of an agreement under the *Range Act* indicates that the planned harvest and road construction will remove or render ineffective a natural range barrier:
   i. Design cutblocks and roads to mitigate the effect of the removal or ineffectiveness; and
   ii. Carry out **Primary Forest Practices** only if the **Primary Forest Practices** are consistent with the design in s.1.c.i of this **Measure**.

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

1. These stocking standards apply to:
   a. areas harvested under this **FSP** within the **FDU**; and
   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 paragraph 1.e of s.3.2 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
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.		
BC Reg. 580/2004	FPPR s.44(1)	June 25, 2012

BACKGROUND INFORMATION: SITUATION OR CIRCUMSTANCES THAT DETERMINE WHETHER FREE GROWING IS ASSESSED ON A BLOCK BASIS		
Authority	**Category/Source**	**Effective Date of Objective**
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: *(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* *(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.*		

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.
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;
2. In areas where **Heavy Elk Use Area** stocking standards are applied, the TSS are 1200 stems per hectare, to allow for clumpy stocking, and

3. TSS is assigned at the **SU** level.

8.4.2.2 Minimum Stocking Standard

1. Minimum Stocking Standards (MSS) listed in Appendix 1.1;
2. The standard for **Heavy Elk Use Areas** will be 50% of the MSS in Appendix 1.1, and
3. MSS is assigned at the **SU** level.

8.4.2.3 Minimum Horizontal Intertree Distance

1. Minimum intertree distances (MITDs) are listed in Appendix 1.1, 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.

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. Deciduous species will be the leading species for hardwood management;
2. 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;
3. For hardwood management:
    a) At least 80% of the total stocking will be alder, and
    b) The stocking level will be an average within a standards unit of not less than 1000 stems per hectare;

    and
4. Heavy elk use stocking standards will not be used in hardwood management areas.

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
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.		

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 m^2/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. Where intermediate cutting is applied, the residual stand will consist of ecologically suitable species that will be viable for future harvest opportunities, and
5. 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.

8.7 High Retention Harvesting – SEDRSS

OBJECTIVE SOURCE: HIGH RETENTION HARVESTING – SEDRSS		
Authority	**Category/Source**	**Effective Date of Objective**
BC Reg. 14/2004	FPPR s.16(4)	January 31, 2004
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.		

1. SEDRSS (Single Entry Dispersed Retention Stocking Standard) standards may be applied where basal area retention following harvest is between 5 and 40 m^2/ha;
2. Justification for high retention harvesting will be documented in the Cutblock Site Plan, consistent with High Retention Management Decision table below;
3. The Single Entry Dispersed Retention Stocking Standard Framework Implementation Guide (Coastal), 2014, provides guidance for high retention harvesting (as revised by CRIT from time to time), and
4. See Appendix 1.2 for the stocking standard to be approved with this FSP.

High Retention Management Decision (SEDRSS)

Situations or Circumstances	Standard
1. Type of Silviculture System	Partial Cutting with Regeneration Obligation – Use SEDRSS (Single Entry Dispersed Retention Stocking Standard). The silviculture system is Retention.
2. Stocking standards applicable	SEDRSS outlines stocking standard criteria based on basal area retained and site index. Additional biogeoclimatic subzones and site series may be added through approved variations. Survey methodology will be consistent with the SEDRSS Implementation Guide (Feb. 14, 2014). SEDRSS includes stratification, overstory, understory, survey methodology, and stocking decision (Option 2 will be used in the **FDU**). RESULTS reporting will be as outlined in the Implementation Guide.
3. Species to be retained	Conifer species only.
4. Maximum Basal Area % Reduction (Quantity)	SEDRSS are to be applied where the residual basal area (RBA) within a selected harvest area is 5 – 40 m^2/ha for Fdc sites, and 8 – 40 m^2/ha for HwCw sites, per Appendix 1.2.
5. Maximum Opening size (Distribution)	Openings larger than 0.1 ha will be stratified and even-aged stocking standards will be applied.
6. Characteristics of Retained Trees or Remaining Stand	Leave tree form, health, and vigour will conform to the SEDRSS Damage Criteria in the Implementation Guide.
7. Scope	Non-timber values and objectives are the primary management focus (visuals, recreation, terrain stability, riparian and cultural). The specific value will be indicated in the Cutblock Site Plan.
8. Scale	0-1% of the harvest volume during the lifetime of this FSP.

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

Bruce Vinnedge, RPF
Senior Silviculture Forester

Date

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

Jeff Ternan, RPF
Manager, Mid Island Forest Operation

Date

Appendix 1 – Stocking Standards

The stocking standards IDs (SSIDs) in RESULTS are:

Even aged: 1051711

Intermediate Cut: 1052043

SEDRSS: 1052044

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									Hardwood Management / Minimum FG Heights	
CWHmm1	01	1000	500	Ba/0.7	Bp/2.5	Cw/1.5	Fd/3.0	Hw/2.0	Pw/2.5	Ss/3.0	Yc/1.5			
	01*	1500	1000	Ba/0.7	--	Cw/1.5	Fd/3.0	Hw/2.0	Pw/2.5	Ss/3.0	--		Mb/4.0	Dr/4.0
	01b	800	400	Ba/0.7	Bp/2.5	Cw/1.5	Fd/3.0	Hw/2.0	Pw/2.5	Ss/3.0	Yc/1.5			
	02	800	400	Cw/1.0	Fd/2.0	Pl/1.2	Pw/2.5	Yc/1.0						
	03	800	400	Cw/1.0	Fd/2.0	Hw/1.7	Pl/1.2	Pw/2.5	Yc/2.0					
	04	1000	500	Cw/1.0	Fd/2.0	Hw/1.7	Pw/2.5	Yc/1.0						
	04b	800	400	Cw/1.0	Fd/2.0	Hw/1.7	Pw/2.5	Yc/1.0						
	05	1000	500	Ba/0.7	Bg/3.0;	Bp/2.5	Cw/1.5	Fd/3.0	Hw/2.0	Pw/2.5	Ss/3.0	Yc/1.5		
	05*	1500	1000	Ba/0.7	--		Cw/1.5	Fd/3.0	Hw/2.0	Pw/2.5	Ss/3.0		Mb/4.0	Dr/4.0
	06	1000	500	Ba/0.7	Cw/1.5	Fd/3.0	Hw/2.0	Pw/2.5	Ss/3.0	Yc/1.5				
	06b	800	400	Ba/0.7	Cw/1.5	Fd/3.0	Hw/2.0	Pw/2.5	Ss/3.0	Yc/1.5				

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BEC	Site Series	TSS	MSS	Coniferous Species / Minimum Free Growing Heights									Hardwood Management / Minimum FG Heights	
	07	1000	500	Ba/1.0	Cw/2.0	Fd/4.0	Hw/2.5	Pw/2.5	Ss/4.0	Yc/2.0	Bg/3.5			
	07*	1500	1000	Ba/1.0	Cw/2.0	Fd/4.0	Hw/2.5	Pw/2.5	Ss/4.0	Bg/3.5			Mb/4.0	Dr/4.0
	08	1000	500	Ba/1.0	Cw/2.0	Fd/4.0	Hw/2.5	Ss/4.0	Yc/2.0	Bg/3.5				
	08*	1500	1000	Ba/1.0	Cw/2.0	Fd/4.0	Hw/2.5	Ss/4.0	Bg/3.5				Mb/4.0	Dr/4.0
	09	1000	500	Ba/1.0	Cw/2.0	Hw/2.5	Ss/4.0	Yc/2.0	Bg/3.5					
	09*	1500	1000	Ba/1.0	Cw/2.0	Hw/2.5	Ss/4.0	--					Mb/4.0	Dr/4.0
	11	800	400	Cw/1.0	Hw/1.7	Pl/1.2	Yc/1.0							
	12	800	400	Cw/1.0	Hw/1.7	Pl/1.2	Ss/2.0	Yc/1.0						
CWHmm2	01	1000	500	Ba/0.7	Bp/1.5	Cw/1.0	Fd/2.2	Pw/2.5	Hm/1.0	Hw/1.2	Yc/1.0			
	02	800	400	Cw/0.7	Fd/1.5	Hm/0.7	Hw/1.0	Pl/1.2	Pw/2.5	Yc/0.7				
	03	800	400	Cw/0.7	Fd/1.5	Hm/0.7	Hw/1.0	Pl/1.2	Pw/2.5	Yc/0.7				
	04	1000	500	Cw/0.7	Fd/1.5	Hm/0.7	Hw/1.0	Pl/1.2	Pw/2.5	Yc/0.7				
	05	1000	500	Ba/0.7	Bp/1.0	Cw/1.0	Fd/2.2	Hm/1.2	Hw/1.2	Pw/2.5	Yc/1.0			
	06	1000	500	Ba/0.7	Cw/1.0	Fd/2.2	Hm/1.2	Hw/1.2	Pw/2.5	Yc/1.0				
	07	1000	500	Ba/0.7	Cw/0.7	Fd/1.5	Hm/0.7	Hw/1.0	Pw/2.5	Yc/0.7				
	08	1000	500	Ba/1.0	Cw/1.2	Fd/3.0	Hm/1.2	Hw/1.7	Yc/1.2					
	09	800	400	Cw/0.7	Hm/0.7	Hw/1.0	Pl/1.2	Pw/2.5	Yc/0.7					
	10	800	400	Cw/0.7	Hm/0.7	Hw/1.0	Pl/1.2	Pw/2.5	Yc/0.7					
CWHvm1	01	1000	500	Ba/1.7	Bp/2.5	Cw/1.5	Fd/3.0	Hw/3.0	Pw/2.5	Ss/3.0	Yc/1.5			

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BEC	Site Series	TSS	MSS	Coniferous Species / Minimum Free Growing Heights									Hardwood Management / Minimum FG Heights	
	01*	1500	1000	Ba/1.7	--	Cw/1.5	Fd/3.0	Hw/3.0	Pw/2.5	Ss/3.0	--		Mb/4.0	Dr/4.0
	01b	800	400	Ba/1.7	Bp/2.5	Cw/1.5	Fd/3.0	Hw/3.0	Pw/2.5	Ss/3.0	Yc/1.5			
	02	800	400	Cw/1.0	Fd/2.0	Hw/2.0	Pl/1.2	Yc/1.0						
	03	800	400	Ba/1.2	Cw/1.0	Fd/2.0	Hw/2.0	Pl/1.2	Pw/2.5	Yc/1.0				
	04	1000	500	Ba/1.7	Bp/2.5	Cw/1.5	Fd/3.0	Hw/3.0	Pw/2.5	Ss/3.0	Yc/1.5			
	04b	800	400	Ba/1.7	Bp/2.5	Cw/1.5	Fd/3.0	Hw/3.0	Pw/2.5	Ss/3.0	Yc/1.5			
	05	1000	500	Ba/1.7	Bp/2.5	Cw/1.5	Fd/3.0	Hw/3.0	Pw/2.5	Ss/3.0	Yc/1.5			
	05*	1500	1000	Ba/1.7	--	Cw/1.5	Fd/3.0	Hw/3.0	Pw/2.5	Ss/3.0	--		Mb/4.0	Dr/4.0
	06	1000	500	Ba/1.7	Cw/1.5	Fd/3.0	Hw/3.0	Pw/2.5	Ss/3.0	Yc/1.5				
	06b	800	400	Ba/1.7	Cw/1.5	Fd/3.0	Hw/3.0	Pw/2.5	Ss/3.0	Yc/1.5				
	07	1000	500	Ba/2.2	Cw/2.0	Fd/4.0	Hw/4.0	Pw/2.5	Ss/4.0	Yc/2.0				
	07*	1500	1000	Ba/2.2	Cw/2.0	Fd/4.0	Hw/4.0	Pw/2.5	Ss/4.0	--			Mb/4.0	Dr/4.0
	08	1000	500	Ba/2.2	Cw/2.0	Fd/4.0	Hw/4.0	Ss/4.0	Yc/2.0					
	08*	1500	1000	Ba/2.2	Cw/2.0	Fd/4.0	Hw/4.0	Ss/4.0	--				Mb/4.0	Dr/4.0
	09	1000	500	Ba/2.2	Cw/2.0	Fd/3.0	Hw/4.0	Ss/4.0	Yc/2.0					
	09*	1500	1000	Ba/2.2	Cw/2.0	Fd/3.0	Hw/4.0	Ss/4.0	--				Mb/4.0	Dr/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	Pl/1.2	Yc/1.0							
	13	400	200	Cw/1.0	Fd/2.0	Hw/2.0	Pl/1.2	Pw/2.5	Yc/1.0					

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BEC	Site Series	TSS	MSS	Coniferous Species / Minimum Free Growing Heights									Hardwood Management / Minimum FG Heights	
	14	800	400	Ba/1.7	Cw/1.5	Fd/3.0	Hw/3.0	Pl/2.0	Pw/2.5	Ss/3.0	Yc/1.5			
CWHvm2	01	1000	500	Ba/1.7	Bp/2.0	Cw/1.5	Fd/2.2	Hm/1.0	Hw/2.5	Pw/2.5	Yc/1.5			
	01b	800	400	Ba/1.7	Cw/1.5	Fd/2.2	Hm/1.0	Hw/2.5	Pw/2.5	Yc/1.5				
	02	800	400	Cw/1.0	Fd/1.5	Hm/0.7	Hw/1.7	Pl/1.2	Yc/1.0					
	03	800	400	Ba/1.5	Cw/1.0	Fd/1.5	Hm/1.7	Hw/1.7	Pw/2.5	Yc/1.0				
	04	1000	500	Ba/1.5	Bp/1.5	Cw/1.0	Fd/1.5	Hm/1.7	Hw/1.7	Pw/2.5	Yc/1.0			
	04b	800	400	Ba/1.5	Bp/1.5	Cw/1.0	Fd/1.5	Hm/1.7	Hw/1.7	Pw/2.5	Yc/1.0			
	05	1000	500	Ba/1.7	Bp/1.7	Cw/1.5	Fd/2.2	Hm/1.0	Hw/2.5	Ss/4.0	Yc/1.5			
	06	1000	500	Ba/1.7	Cw/1.5	Fd/2.2	Hm/1.0	Hw/2.5	Yc/1.5					
	06b	800	400	Ba/1.7	Cw/1.5	Fd/2.2	Hm/1.0	Hw/2.5	Yc/1.5					
	07	1000	500	Ba/2.2	Cw/2.0	Fd/3.0	Hm/1.0	Hw/3.5	Ss/4.0	Yc/2.0				
	08	1000	500	Ba/2.2	Cw/2.0	Fd/3.0	Hm/1.0	Hw/3.5	Yc/2.0					
	09	800	400	Ba/1.5	Cw/1.0	Fd/1.5	Hm/0.7	Hw/1.7	Pl/1.2	Yc/1.0				
	10	400	200	Hm/0.7	Hw/1.7	Pl/1.2	Yc/1.0							
	11	800	400	Ba/1.5	Cw/1.0	Fd/1.5	Hm/0.7	Hw/1.7	Ss/2.0	Yc/1.0				
CWHxm	01	1000	500	Cw/1.5	Fd/3.0	Hw/2.0	Pw/2.5	Ss/3.0						
	01*	1500	1000	Cw/1.5	Fd/3.0	Hw/2.0	Pw/2.5	Ss/3.0					Mb/4.0	Dr/4.0
	01b	800	400	Cw/1.5	Fd/3.0	Hw/2.0	Pw/2.5	Ss/3.0						
	02	800	400	Fd/2.0	Pl/1.2	Pw/2.5								

BEC	Site Series	TSS	MSS	Coniferous Species / Minimum Free Growing Heights									Hardwood Management / Minimum FG Heights	
	03	800	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							
	04b	800	400	Cw/1.5	Fd/3.0	Hw/2.0	Pw/2.5							
	05	1000	500	Bg/3.5	Cw/2.0	Fd/4.0	Hw/1.7	Pw/2.5	Ss/4.0					
	05*	1500	1000	Bg/3.5	Cw/2.0	Fd/4.0	Hw/1.7	Pw/2.5	Ss/4.0				Mb/4.0	Dr/4.0
	06	1000	500	Bg/3.0	Cw/1.5	Fd/3.0	Hw/2.0							
	06b	800	400	Bg/3.0	Cw/1.5	Fd/3.0	Hw/2.0							
	07	1000	500	Bg/3.5	Cw/2.0	Fd/4.0	Hw/1.7	Ss/4.0						
	07*	1500	1000	Bg/3.5	Cw/2.0	Fd/4.0	Hw/1.7	Ss/4.0					Mb/4.0	Dr/4.0
	08	1000	500	Bg/3.5	Cw/2.0	Fd/4.0	Ss/4.0							
	08*	1500	1000	Bg/3.5	Cw/2.0	Fd/4.0	Ss/4.0						Mb/4.0	Dr/4.0
	09	1000	500	Bg/3.5	Cw/2.0	Ss/4.0								
	11	800	400	Cw/1.0	Pl/1.2									
	12	800	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	Ss/4.0							
	13*	1500	700	Bg/3.5	Cw/2.0	Fd/4.0	Ss/4.0						Mb/4.0	Dr/4.0
	14	1000	500	Bg/3.5	Cw/2.0	Ss/4.0								
	15	800	400	Cw/2.0										
MHmm1	01	1000	500	Ba/0.6	Bp/1.2	Hm/1.0	Hw/1.0	Yc/1.0						

BEC	Site Series	TSS	MSS	Coniferous Species / Minimum Free Growing Heights									Hardwood Management / Minimum FG Heights	
	02	800	400	Ba/0.6	Hm/0.7	Hw/1.0	Yc/0.7							
	03	800	400	Ba/0.6	Bp/1.2	Hm/1.0	Hw/1.0	Yc/1.0						
	04	1000	500	Ba/0.6	Bp/1.2	Hm/1.0	Hw/1.0	Yc/1.0						
	05	1000	500	Ba/0.6	Bp/1.2	Hm/1.0	Hw/1.0	Yc/1.0						
	06	800	400	Ba/0.6	Hm/0.7	Hw/0.7	Yc/0.7							
	07	1000	500	Ba/0.6	Hm/0.7	Hw/0.7	Yc/0.7							
	08	800	400	Ba/0.6	Hm/0.7	Hw/0.7	Yc/0.7							
	09	800	400	Ba/0.6	Hm/0.7	Hw/0.7	Yc/0.7							

* - Refers to SUs which are being managed for hardwoods under Section 8.5.

Notes for Appendix 1.1:

Ba – On west coast CWHvm1 sites transitional to CWHvh1, and CWHvh1, suitable in the proximal absence of salal at the plot level (applies to west coast sites that are a mosaic of 01/01s or 06/06s or transitional to CWHvh1). Does not include salal only growing on rotten wood.

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.

Pl – Refers to Plc. The use of Pl 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.

A 'b' site series suffix indicates lithic phases and fragmental soils e.g. CWHvm1-01b. Clumpy stocking is natural in these areas, where microsite conditions are highly variable over short horizontal distances. "Lithic phases occur on sites with organic veneers over thin (<10 cm) mineral soil over bedrock or boulders". The lithic definition is found in A Field Guide to Site Identification and Interpretation for the Prince Rupert Forest Region (LMH 26, 1993, p. 151), and is a useful modifier for certain sites in mountainous areas that are dominated by colluvial parent material. "Fragmental" mineral soils have colluvial coarse fragments over 70-80% content. The 70-80% fragmental threshold for mineral soils is the division between skeletal and "fragmental soils" discussed in the 1994 Vancouver Region Guidebook (LMH 28, p.18, 193, 218).

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

MITD (m)	Site Series
1.0	"b" (lithic/fragmental) phases.
1.5	(i) < 20 metres from road centreline; (ii) immediately adjacent to any: (A) stream – riparian area; (B) natural non-productive area; (C) unplantable slash; or (iii) on any: (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.

Appendix 1.2 – SEDRSS Stocking Standard

Appendix 1.2.1 – SEDRSS Tabular Method for HwCw over HwCw

BGCU	Layer	Regeneration Guide									Free Growing Guide	
		Species	Site Occupancy									
			All BA combinations are applicable to survey plots						Regen Delay (max yrs.)	MITD	Species	Height(m)
			Only used during plots	One of these 4 BA combinations are applicable to final SU REGEN / FG SEDRSS obligations				Only used during plots				
CWHvm1 - 01	Residual Layer (L1) (≥12.5dbh)	Per Appendix 1.1 by Site Series	0-8	9-15	16-22	23-28	29-39	≥ 40	N/A	N/A	N/A	
	BA (m^2/ha)											
	Regen Layer (L2-L4)	Per Appendix 1.1 by Site Series[1]							6	L1 Drip line or 2.0 m (L2-L4)	Per Appendix 1.1 by Site Series	Per Appendix 1.1 by Site Series
	TSS Target (WS /ha)		900	800	700	500	400	0				
	MSS Minimum (WS/ha)		500	400	300	200	100	0				

[1] Fdc

- ecologically suitable only in areas with <8 m^2/ha BA;
- restricted to a maximum of 200 WS or FG/ha in plots with >=8 m^2 and <=15 m^2 BA;
- not suitable in plots with >15 m^2 BA, and
- not suitable on north aspects.

Stocking Decision – The SU is found to have met its regen obligation or free growing obligation if the mean regen or FG sph >= the MSS sph for the corresponding average crop BA from the table.

Appendix 1.2.2 - SEDRSS Tabular Method for Second Growth Fdc – Fd(CwHw) over HwCwFd – SI 30

BGCU	Layer	Regeneration Guide									Free Growing Guide	
		Species	Site Occupancy									
			All BA combinations are applicable to survey plots						Regen Delay (max yrs)	MITD	Species	Height (m)
			Only used during plots	One of these 4 BA combinations are applicable to final SU REGEN / FG SEDRSS				Only used during plots				
CWHxm - 01	Residual Layer (L1) (≥12.5dbh)	Per Appendix 1.1 by Site Series							N/A	N/A	N/A	
	BA (m^2/ha)		0-4	5-10	11-16	17-23	24-39	≥ 40				
	Regen Layer (L2-L4)	Per Appendix 1.1 by Site Series[1,2]							6	L1 Drip line or 2.0 m (L2-L4)	Per Appendix 1.1 by Site Series	Per Appendix 1.1 by Site Series
	TSS Target (WS / ha)		900	800	700	500	400	0				
	MSS Minimum (WS/ha)		500	400	300	200	100	0				

[1] Fdc

- ecologically suitable only in areas with <10m^2/ha BA;
- restricted to a maximum of 200 WS or FG/ha in plots with >=10 m^2 and <=16 m^2 BA;
- not suitable in plots with >16 m^2 BA, and
- not suitable on north aspects unless there are no residual trees within 2 stand tree lengths.

[2]Cw (n.b. For Cw and Hw dominated retention stands of SI <30, use the table in Appendix 1.2.1).

- ecologically suitable only in areas with <10m^2/ha BA;
- restricted to a maximum of 200 WS or FG/ha in plots with >=10 m^2 and <=23 m^2 BA, and
- not suitable in plots with >23 m^2 BA.

Stocking Decision – The SU is found to have met its regen obligation or free growing obligation if the mean regen or FG sph >= the MSS sph for the corresponding average crop BA from the table.

Appendix 2 – Site Series Representation Analysis for SMZ 11 (R/S 6.7.3)

FDU Site Series Representation Analysis for SMZ 11 (based on VRI data, 2020 reference year)

CWHvm1	Area (ha)	% of Total Area	Underrepresented Ecosystem	CDC Listing	Target (%)	Target (ha)	NHLB Old (ha)	Percent NHLB Old (%)	POGMAs THLB Old-July 19, 2021 (ha)	Revised with POGMAs (%)	Recruitment NHLB (ha)	Conserved in OGMA (%)*
00	57.5	0.6%	Yes		>19	10.9	26.1	45.5%	0.1	45.6%	0.0	45.6%
01	965.8	10.8%			>19	183.5	211.1	21.9%	12.0	23.1%	0.0	23.1%
02	29.5	0.3%	Yes		>19	5.6	9.2	31.1%	0.0	31.1%	0.0	31.1%
03	245.1	2.7%	Yes	Blue	>19	46.6	79.6	32.5%	2.5	33.5%	0.0	33.5%
04	167.7	1.9%	Yes	Blue	>19	31.9	25.9	15.4%	3.8	17.7%	0.0	17.7%
05	429.4	4.8%		Blue	>19	81.6	193.9	45.2%	0.1	45.2%	0.0	45.2%
06	89.7	1.0%	Yes	Blue	>19	17.0	14.6	16.3%	0.7	17.1%	12.8	31.4%
07	663.1	7.4%		Blue	>19	126.0	160.4	24.2%	5.3	25.0%	0.0	25.0%
08	162.0	1.8%	Yes	Blue	>19	30.8	25.4	15.7%	0.0	15.7%	0.0	15.7%
09	37.0	0.4%	Yes	Red	>19	7.0	30.9	83.6%	0.0	83.6%	0.0	83.6%
10	69.8	0.8%	Yes	Blue	>19	13.3	52.7	75.5%	0.0	75.5%	0.0	75.5%
11	21.1	0.2%	Yes	Blue	>19	4.0	17.1	80.7%	0.0	80.7%	0.0	80.7%
14	51.8	0.6%	Yes	Blue	>19	9.9	22.6	43.5%	0.0	43.5%	0.0	43.5%

* Comprising established and proposed old growth management areas, including recruitment.

FOREST STEWARDSHIP PLAN

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CWHvm2	Area (ha)	% of Total Area	Underrepresented Ecosystem	CDC Listing	Target (%)	Target (ha)	NHLB Old (ha)	Percent NHLB Old (%)	POGMAs THLB Old-July 19, 2021 (ha)	Revised with POGMAs (%)	Recruitment NHLB (ha)	Conserved in OGMA (%)*
00	86.8	1.0%	Yes		19	16.5	56.8	65.4%	1.5	67.2%	0.0	67.2%
01	1,769.4	19.8%			19	336.2	544.3	30.8%	18.3	31.8%	0.0	31.8%
02	106.0	1.2%	Yes		19	20.1	72.7	68.6%	0.6	69.1%	0.0	69.1%
03	1,242.4	13.9%		Blue	>19	236.1	439.6	35.4%	0.0	35.4%	0.0	35.4%
04	42.9	0.5%	Yes	Blue	>19	8.2	11.0	25.6%	0.0	25.6%	0.0	25.6%
05	383.6	4.3%		Blue	>19	72.9	119.2	31.1%	0.8	31.3%	0.0	31.3%
06	121.9	1.4%	Yes	Blue	>19	23.2	28.7	23.5%	8.6	30.6%	0.0	30.6%
07	282.2	3.2%		Blue	>19	53.6	89.9	31.9%	2.6	32.8%	0.0	32.8%
08	279.5	3.1%		Blue	>19	53.1	88.5	31.7%	0.0	31.7%	0.0	31.7%
09	39.5	0.4%	Yes		>19	7.5	7.1	18.0%	0.8	20.1%	0.0	20.1%
11	4.3	0.0%	Yes		>19	0.8	0.5	11.0%	0.0	11.0%	0.0	11.0%

* Comprising established and proposed old growth management areas, including recruitment.

MHmm1	Area (ha)	% of Total Area	Underrepresented Ecosystem	CDC Listing	Target (%)	Target (ha)	NHLB Old (ha)	Percent NHLB Old (%)	POGMAs THLB Old-July 19, 2021 (ha)	Revised with POGMAs (%)	Recruitment NHLB (ha)	Conserved in OGMA (%)*
00	135.3	1.5%	Yes		>28	37.9	97.3	71.9%	0.0	71.9%	0.0	71.9%
01	683.2	7.6%			28	191.3	411.8	60.3%	0.0	60.3%	0.0	60.3%
02	575.4	6.4%			28	161.1	415.2	72.2%	0.1	72.2%	0.0	72.2%
03	93.4	1.0%	Yes		>28	26.1	65.9	70.6%	0.0	70.6%	0.0	70.6%
05	19.7	0.2%	Yes		>28	5.5	14.0	71.0%	0.0	71.0%	0.0	71.0%
07	70.6	0.8%	Yes		>28	19.8	35.2	49.9%	0.0	49.9%	0.0	49.9%
08	9.4	0.1%	Yes		>28	2.6	6.2	66.4%	0.0	66.4%	0.0	66.4%

* Comprising established and proposed old growth management areas, including recruitment.