

WOODLOT # 1602

WOODLOT LICENCE PLAN

2021 to 2031

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Authorized Licensee Signature:

Dave Haywood-Farmer

Print Name

Signature

Date

DISCLAIMER

This disclaimer forms part of the Woodlot Licence Plan (WLP) for Woodlot Licence # 1602 and advises that:

- The decision to operate under one or more of the Practice Requirements provided in the Woodlot Licence Planning and Practices Regulation (WLPPR) is the sole responsibility of the woodlot licence holder.
- This disclaimer is signed on the explicit understanding that abiding by the Practice Requirements stated in Parts 3 and 4 of the WLPPR meets the expectations of government with respect to the management of woodlot licences;
- The undersigned Registered Professional Forester has been retained with respect to the practice of professional forestry as it pertains to alternative performance requirements, results, strategies, standards and measures presented in this WLP.

Signed: _____

Name (Print) Duane Hennig

RPF #

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Seal:



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RATIONALE IN SUPPORT OF PROPOSED ALTERNATIVE PERFORMANCE REQUIREMENTS

I. WOODLOT LICENCE PLAN (WLP) REQUIRED CONTENT

PLAN AREA

- This plan covers the entire Woodlot Licence area.
- This plan covers a portion of the Woodlot Licence area.

MAP AND INFORMATION

Information Item	Map	Text	N/A
Forest cover	X		
Topography (unless exempted by DM)	X		
Location and riparian class of streams, wetlands and lakes as shown on gov't endorsed forest cover maps, terrain resource inventory maps, & fish & fish habitat inventory maps	X		
Identification of fish streams on gov't endorsed maps			X
Biogeoclimatic zones and subzones (unless exempted by DM)	X	X	
Public utilities (transmission lines, gas & oil pipelines, and railways)			X
Special Situations that may not Apply to the WL area			X
Resource Management Zones, Landscape Units or Sensitive Areas	X	X	
Wildlife Habitat Areas (unless exempted by DM)	X	X	
Scenic Areas	X	X	
Ungulate Winter Ranges	X	X	
Community Watersheds			X
Fisheries Sensitive Watersheds			X
Community and domestic water supply intakes that are licensed under the <i>Water Act</i> and any related water supply infrastructures			X
Contiguous areas of sensitive soils			X
Existing roads	X		
Temporary or permanent barricades to restrict vehicle access			X
Private property within or adjacent to the woodlot licence area			X
Resource features other than wildlife habitat features and archaeological sites (unless the location of the resource feature is not to be disclosed)			X

BIOGEOCLIMATIC ZONES AND SUBZONES

- The entire woodlot licence area is in the IDF dk1 biogeoclimatic subzone.
- The woodlot licence area is comprised of the following biogeoclimatic subzones.

RESOURCE MANAGEMENT ZONES, LANDSCAPE UNITS OR SENSITIVE AREAS

- The entire woodlot licence area
- portion of the woodlot licence area identified on the map in Appendix 3
- Crown land portion of the woodlot licence area

The majority of Woodlot 1602 is within the South Kamloops Landscape Unit. The southern portion of woodlot is within the Upper Guichon Landscape unit.

There are no Sensitive Area's associated with the woodlot license.

Woodlot 1602 is within the General Resource Management Zone as defined in the KLRMP.

WILDLIFE HABITAT AREAS

- There are no WHAs located in whole or in part within the WLP area.
- The following Wildlife Habitat Area(s) are located in whole or in part within the WLP area. Their location(s) are identified on the map in Appendix 3.
[There are no known Wildlife Habitat Area's associated with the woodlot license.]

An exemption has been granted: Yes No

SCENIC AREAS

- There are no scenic areas located in whole or in part within the WLP area.
- There is one or more scenic areas located in whole or in part within the WLP area. It/they are identified on the map in Appendix 3.

The eastern portion of woodlot 1602 is located within a visually sensitive area as identified in the KLRMP. The eastern portion also lies within a mapped partial retention visual quality objective polygon. The visually sensitive scenic areas and associated Visual Quality Objectives polygons have been identified on the attached Woodlot License Plan Maps.

An exemption has been granted: Yes No

UNGULATE WINTER RANGES

- There are no Ungulate Winter Ranges located in whole or in part within the WLP area.
- To manage for the winter survival of Moose,

A Critical Moose Ungulate Winter Range polygon exists slightly within and adjacent to the eastern portion of Woodlot 1602. When planning or conducting primary forest activities, the holder of the WLP will refer to *Kamloops Land and Resource Management Plan Section 2.1.12.2* to ensure the management objectives are being met within the identified area.

- entire WLP area.
- portion of the WLP area identified on the map in Appendix 3.
- Crown land portion of the WLP area.

An exemption has been granted: Yes No

COMMUNITY WATERSHEDS

- There are no Community Watersheds located in whole or in part within the WLP area.
- The Community Watershed has been established over the
 - entire WLP area.
 - portion of the WLP area identified on the map in Appendix 3.
 - Crown land portion of the WLP area.

An exemption has been granted: Yes No

FISHERIES SENSITIVE WATERSHEDS

- There are no Fisheries Sensitive Watersheds located in whole or in part within the WLP area.
- The [Enter Details] Fisheries Sensitive Watershed has been established over the
 - entire WLP area.
 - portion of the WLP area identified on the map in Appendix 3.
 - Crown land portion of the WLP area.

An exemption has been granted: Yes No

COMMUNITY AND DOMESTIC WATER SUPPLY INTAKES THAT ARE LICENSED UNDER THE WATER SUSTAINABILITY ACT AND ANY RELATED WATER SUPPLY INFRASTRUCTURES

- There are no community or domestic water supply intakes or related water supply infrastructures within the WLP area or nearby that could be affected by operations carried out under this plan.
- There is/are community or domestic water supply intake(s) or related water supply infrastructure(s) within the WLP area or nearby (i.e. within 100m) that could be affected by operations carried out under this plan. The location(s) is/are identified on the map in Appendix 3 or are described as follows:

CONTIGUOUS AREAS OF SENSITIVE SOILS

- The WL holder is not aware of any contiguous areas of sensitive soils within the WLP area.
- The location(s) of contiguous areas of sensitive soils are identified on the map in Appendix 3.

TEMPORARY OR PERMANENT BARRICADES THAT RESTRICT VEHICLE ACCESS

- At the time of preparing this woodlot licence plan there were no permanent or temporary barricades on the WLP area to restrict vehicle access.
- Temporary or permanent barriers to restrict vehicle access are identified on the map in Appendix 3.

PRIVATE PROPERTY WITHIN OR ADJACENT TO THE WLP AREA

The location and boundaries of private land within or adjacent to the WLP area are identified on the map in Appendix 3.

There are no private properties within or adjacent to Woodlot 1602 boundaries.
Schedule A private land included in previous WLP was removed in 2014.

RESOURCE FEATURES OTHER THAN WILDLIFE HABITAT FEATURES AND OTHER FEATURES WHERE THE LOCATION MUST NOT BE DISCLOSED

At the time of preparing this woodlot licence plan, there were no resource features within the WLP that were established under

- the Government Actions Regulation.
- Forest *Practices Code of BC Act* regulation and made known by the district manager.

Or

- The following resource features are found within the woodlot license area:
ORV Recreational Trails for motorized trail bikes exist within the woodlot license area (File ID# 240834). Authorization under section 16 of the RDKA is required prior to harvesting activities.

AREAS WHERE TIMBER HARVESTING WILL BE AVOIDED OR MODIFIED

Areas where timber harvesting will be AVOIDED:

- There are no areas where timber harvesting will be avoided.
- Timber harvesting will be avoided on the following areas:

Areas where timber harvesting will be MODIFIED:

- There are no areas where timber harvesting will be modified.
- The following areas will be subject to modified timber harvesting as described below.

Eastern portion of Woodlot 1602 is within a mapped visually sensitive area as defined in the KLMRP and is also within a partial retention VQO polygon. When planning or conducting primary forest activities within this visually sensitive scenic area, the woodlot licence holder will ensure that the activities are consistent with the visual quality objectives as indicated on the attached Woodlot Licence Plan maps. Primary forest activities will be planned and conducted in a manner that is consistent with sections 2.1.14.1, 2.1.14.2 and Appendix 8 of the Kamloops Land and Resource Management Plan (*Visual Quality Guidelines for Timber Harvesting*). Harvesting adjacent to ORV recreation trails located within Woodlot 1602 will require authorization from MOLFNR Recreation Sites and Trails Branch with possible modifications to harvest plans under guidelines set out in section 16.

A small area along the eastern boundary of woodlot is within a area of critical moose winter range as defined in the KLRMP. The holder of the WLP will refer to the *Kamloops Land and Resource Management Plan Section 2.1.12.2* to ensure the management objectives are being met within the identified area.

RETENTION OF TREES IN A RIPARIAN MANAGEMENT ZONE

Unless exempted or as provided for under WLPPR section 40, the woodlot licence holder will retain the following post-harvest stand structure in riparian management zones:

Description of Post-Harvest Stand Structure Retained in Riparian Management Zones				
Trees to be Retained	Species:			
Range of Residual Basal Area: (m ² /ha)		OR	Range of Residual Trees/ha:	

Unless exempted or as provided for under WLPPR section 40, the percentage of the total basal area within the riparian management zone specified in the following table will be left as standing trees at the completion of harvesting. Retention trees inside a riparian management zone will where practicable be reasonably representative of the physical structure and spatial distribution of the riparian management zone, as it was before harvesting. Characteristics of retention trees will target stems with small open crowns, good root anchorage, no root or bole rot, low height-to-diameter ratio, deciduous stems, well-rooted veterans.

Riparian Class	RMZ Basal Area Retention (%)
S1-A or S1-B stream	≥20
S2 stream	≥20
S3 stream	≥20
S4 stream	≥10
S5 stream	≥10
S6 stream	≥ 5
All classes of wetlands or lakes	≥10

- Unless exempted or as provided for under WLPPR section 40, the following describes the retention of trees in a riparian management zone following timber harvesting.

CONSERVING AND PROTECTING CULTURAL HERITAGE RESOURCES

The result or strategy applicable to the WLP area is as follows:

- Result:**
In an effort to identify First Nation groups who may be impacted or interested in the harvesting activities in Woodlot 1602, a public service report was generated using the Province of BC website, Contacts for First Nations Consultation Area's <https://maps.gov.bc.ca/ess/hm/cadb/>. The report identified 26 groups that will be notified in advance of the date when the Woodlot License Plan is available for review and request their input.
Should a CHR be made known the woodlot licence holder will, after due consideration of the factors listed in WLPPR, Schedule 1, Section 5, only carry out forest practices at a time and in a manner that will conserve and protect cultural heritage resources that are the focus of a traditional use by an aboriginal people that is of continuing importance to that people.
- Strategy:**
The following strategy is proposed to conserve and protect cultural heritage resources that are the focus of a traditional use by an aboriginal people and of continuing importance to them. This strategy applies to cultural heritage resources that are not protected under the *Heritage Conservation Act*. The woodlot licence holder is committed to carrying out forest practices at a time and in a manner that is unlikely to damage or harmfully alter cultural heritage resources.
If during the course of any forest activities a previously unidentified heritage object, site or value is found the licensee will stop all works immediately, notify the District Manager and affected first nations group(s). A field review will then be conducted by a qualified professional and the recommendations of that review implemented which may require modification to the planned forest operations. The licensee will commit to ongoing discussions and working with local first nations groups to develop mitigative measures. Potential cultural heritage resources will be documented and mapped where possible for future reference. All responses received during the review period will be recorded and addressed individually. Consideration to modifications as a result of responses to the draft WLP will involve consultation with affected First Nation group(s), qualified professionals and governing bodies involved with Cultural Heritage Resource values. If warranted modifications will be implemented in the submission of finalized WLP document.

WILDLIFE TREE RETENTION STRATEGY

The proportion of the woodlot licence area occupied for wildlife tree retention purposes is defined in the Performance Requirements section of this WLP.

The proportion of the woodlot licence area occupied by wildlife trees will be achieved through:

- Dispersed retention (Individual wildlife trees or small clumps of trees within a cutblock area)
- Patch retention (intact areas of forest)
- Areas where harvesting will be avoided
- Areas where harvesting will be modified

DISPERSED RETENTION

- Not applicable (dispersed retention of individual wildlife trees **will not** be used)
- Applicable (dispersed retention of individual wildlife trees **will** be used)

Each individual wildlife tree will be considered to occupy ____m².

(a) Species and Characteristics:

(b) Conditions Under Which Individual Wildlife Trees May Be Removed:

(c) Replacement of Individual Wildlife Trees:

PATCH RETENTION

- Not applicable (patch retention of wildlife trees **will not** be used)
- Applicable (patch retention of wildlife **will** be used)

(a) Forest Cover Attributes:

Wildlife tree patches will consist of forests comprised of all deciduous and coniferous trees and a significant proportion of the trees will exhibit one or more of the individual wildlife tree attributes listed below. Patches will also consist of a minimum 30% crown closure. Trees that pose a safety hazard, or are infested with insects or infected with a pathogen that could threaten adjacent trees or forests, will not be retained.

To the extent practicable, WTRA's that exhibit the following attributes will be preferred for Retention.

- internal decay, heart rot or cavities
- crevices, cracks or loose bark that is suitable for wildlife
- large brooms
- active or recent wildlife use
- suitable for wildlife use including a large nest, a hunting perch or a bear den
- a veteran tree- ie; largest trees on site as determined by height or diameter
- important as habitat for species at risk and/or local wildlife.

(b) Conditions Under Which Trees May Be Removed from Wildlife Tree Retention Areas:

Wildlife trees patches and/or individual wildlife trees in WTRA areas may be removed if they are:

- A safety hazards
- Infested with insects or pathogens which threaten the health of adjacent trees
- Wind thrown or damaged to the extent that the identified wildlife objectives cannot be met
- If they become an obstacle or impediment to access or operations
- The retention area is no longer able to perform as a suitable wildlife habitat.

(c) Replacement of Trees Removed from Wildlife Tree Retention Patches:

The woodlot owner will ensure that the proportion of the woodlot licence area occupied for wildlife tree retention that is defined in the Performance Requirements section of this WLP will be maintained over time. Replacement of WTR areas will be designated prior to harvest of the original patches and will be recorded in the Site plan, RESULTS or other supporting documents. The woodlot owner will replace the portion of the WTR area from which the timber is being harvested with one or more WTR areas located as near as possible to the original WTR area that provide an equivalent area, number of trees or habitat.

MEASURES TO PREVENT THE INTRODUCTION OR SPREAD OF INVASIVE PLANTS

Exempted

IAAP BC was consulted in April of 2021 and two mapped sites containing the invasive plant species, Yellow Hawkweed, Hounds Tongue and Sulphur Cinquefoil were noted immediately adjacent to north boundary of Woodlot 1602. Adjacent to the southeast corner of woodlot boundary two mapped sites containing Bull Thistle exist. The woodlot licence holder commits to carrying out the following measures to prevent the introduction or spread of invasive plants listed in the Invasive Plant Regulation that is likely the result of the woodlot licence holder's forest practices:

- Known plant sites will be incorporated into development planning and new sites will be reported as they are discovered
- To the extent possible, do not park or stage equipment or vehicles, or sort logs on large concentrations or infestations of invasive plants
- To the extent practicable, begin work in un-infested areas before moving to infested areas
- Inspect and ensure fill and erosion control materials are free of invasive plants before transport or use
- Inspect and remove invasive plant parts or propagules from clothing and vehicle/equipment undercarriages before moving to a new worksite or area.
- As soon as practicable or within one year following the completion of operations, all newly constructed roads, landings, pits, and quarries that are greater than 0.25 hectare and have exposed mineral soil that will support vegetation will be seeded at an industry acceptable rate using Canada Common #1 Forage Mixture as defined by the *Seed Act*.

MEASURES REGARDING NATURAL RANGE BARRIERS

Exempted

The woodlot licence holder is committed to carrying out the following measures if the woodlot licence holder's forest practices remove or render ineffective a natural range barrier that was identified by a range tenure holder who is authorized to graze livestock on the woodlot licence area or by the ministry Agrologist:

- Prior to the commencement of primary forest activities, the licensee will inform the range tenure holder of planned harvest and road construction within or adjacent to their range tenure.
- Where natural range barriers are removed or rendered ineffective, the impact will be mitigated by one or more of the following options, to be determined on a site-specific basis by a qualified professional, in consultation with MOFR range staff and/or the range tenure holder:
 - No remedial action to be taken
 - Remedial fencing will be installed
 - Cattlegaurds and/or gates will be installed
 - Carrying out other activities that will limit the movement of cattle
 - Forest activities will be carried out when livestock are not on the range.

If any remedial action is required it will be completed within 12 months of the removal of the natural range barrier. Measures will be implemented to a standard that will reduce the likelihood of livestock movement across what was identified as the natural range barrier. The woodlot licence holder is not responsible for on-going maintenance of the replacement barrier.

STOCKING INFORMATION FOR SPECIFIED AREAS

The stocking standards indicated below apply to areas where the establishment of a free growing stand is not required and harvesting is limited to commercial thinning, removal of individual trees, or a similar type of intermediate cutting, and for harvesting special forest products; i.e. for the purposes of WLPPR sections 12 & 34(3).

The Uneven-aged Stocking standards for single-tree selection as found in the ministry publication "Reference Guide for FDP Stocking Standards" are adopted. A copy of these stocking standards is included in Appendix 1A.

The stocking standards for the purposes of WLPPR sections 12 and 34(3) are found in Appendix 1.

PRACTICE REQUIREMENTS

EXEMPTIONS-N/A

ALTERNATIVE PERFORMANCE REQUIREMENTS

Soil Disturbance Limits

- Default: WLPPR section 24(1)(b)
8% of net area to be reforested.
- Alternative: WLPPR section 24(1)(a): The amount of soil disturbance on the net area to be reforested will not exceed [Enter Details].

Permanent Access Structures

- Default: WLPPR section 25
The maximum area occupied by permanent access structures is:
- For Cutblocks ≥ 5 ha: 7% of the total cutblock area.
 - For Cutblocks < 5 ha: 10% of the total cutblock area.
 - For the WL Area: 7% of the total Woodlot Licence area.
- Alternative: WLPPR section 25:
- For cutblocks ≥ 5 ha, the maximum amount of the total area within a cutblock that will be occupied by permanent access structures will not exceed [Enter Details].
 - For cutblocks < 5 ha, the maximum amount of the total area within a cutblock that will be occupied by permanent access structures will not exceed [Enter Details].
 - For the WL area, the maximum amount of the total area within the woodlot licence area that will be occupied area by permanent access structures will not exceed [Enter Details].

Stocking Standards

- Default: WLPPR section 35(1)(b)
The stocking standards, regeneration dates and free growing dates described in the ministry publication “Reference Guide for Forest Development Plan Stocking Standards,” as amended from time to time, that are in place on the commencement date for the area.
- Alternative #1: WLPPR section 35(1)(a)
The current stocking standards, regeneration dates and free growing dates described in the ministry publication “Reference Guide for Forest Development Plan Stocking Standards.” The pertinent sections (including footnotes) are shown in Appendix 2A.

- Alternative #2: WLPPR section 35(1)(a)
The stocking standards, regeneration dates and free growing dates are indicated in Appendix 2B.
[Enter Details]

Width of Stream Riparian Areas

- Default: WLPPR section 36(4)(b)
The minimum widths of the RRZ, RMZ and RMA are as described in WLPPR section 36(4)(b).
- Alternative: WLPPR section 36(4)(a)
The minimum widths of the RRZ, RMZ and RMA are as follows:
[Enter Details]

Width of Wetland Riparian Areas

- Default: WLPPR section 37(3)(b)
The minimum widths of the RRZ, RMZ and RMA are as described in WLPPR section 37(3)(b).
- Alternative: WLPPR section 37(3)(a)
The minimum widths of the RRZ, RMZ and RMA are as follows:
[Enter Details]

Width of Lake Riparian Areas

- Default: WLPPR section 38(2)(b)
The minimum widths of the RRZ, RMZ and RMA are as described in WLPPR section 38(2)(b).
- Alternative: WLPPR section 38(2)(a)
The minimum widths of the RRZ, RMZ and RMA are as follows:
[Enter Details]

Restrictions in a Riparian Reserve Zone

- WLPPR section 39(2.1)
The following road construction is proposed in a riparian reserve zone.
[Enter Details]
- Default: WLPPR section 39(1)
Cutting, modifying or removing trees in a RRZ is limited to the purposes described in WLPPR section 39(1).
- Alternative: WLPPR section 39(1)
Additional purposes for cutting, modifying or removing trees in a RRZ are as follows:

Restrictions in a Riparian Management Zone

- Default: WLPPR section 40(1)(b)(c) or (d)
The construction of a roads in a riparian management zones will be limited to the conditions described in WLPPR sections 40(1)(b), (c) and (d).
- Alternative: WLPPR section 40(1)(a)
In addition to the conditions described in WLPPR sections 40(1)(b), (c) and (d), roads will be constructed in riparian management zones as follows:

Wildlife Tree Retention

- Exempted

If not exempted, the proportion of the Woodlot Licence area that will be occupied by wildlife trees will be:

- Default: 8% of the woodlot licence area (WLPPR section 52(1)(c))
- Default: ___ % specified for the area in a land use objective (WLPPR section 52(1)(a))
- Alternative: % of the total Woodlot Licence area (WLPPR section 52(1)(b))
[Enter Details]

Coarse Woody Debris

- Exempted

If not exempted, the minimum amount of coarse woody debris that will be left on areas where there is a requirement to establish a free growing stand will be:

- Coastal Default: WLPPR section 54(1)(b)
A minimum retention of 4 logs per ha ≥ 5 m in length and ≥ 30 cm in diameter at one end.
- Interior Default: WLPPR section 54(1)(b)
A minimum retention of 4 logs per ha ≥ 2 m in length and ≥ 7.5 cm in diameter at one end.
- Alternative: WLPPR section 54(1)(a)
The quantity of logs to be retained will be [Enter Details]

Resource Features

- Exempted

If not exempted, the woodlot licensee will:

- Default: WLPPR section 56(1)(b)
Ensure that forest practices do not damage or render ineffective a resource feature.
- Alternative: WLPPR section 56(1)(a)
Carry out the following measures to ensure that forest practices do not damage or render ineffective a resource feature: