

Splatsin Fuel Management Prescription for Wildfire Risk Reduction

A. PROJECT IDENTIFICATION	
PROJECT ID AND UNIT ID: Splatsin Reserve Wildfire Risk Reduction Treatment Unit A2	LAND OR TENURE HOLDER: Splatsin IR#2
LATITUDE/LONGITUDE: 50 31' 22" N, 119 10' 33" W	GEOGRAPHIC DESCRIPTION: Enderby – Jackpine Rd
HIGHER-LEVEL PLAN(s): Okanagan Shuswap LRMP, Splatsin CWRP	MAP REFERENCE NUMBER: 82L055

B. FUEL TREATMENT PROJECT DESCRIPTION			
OBJECTIVE:	<input checked="" type="checkbox"/> Public Safety	<input type="checkbox"/> Range Improvement	<input type="checkbox"/> Ecosystem Restoration
	<input type="checkbox"/> Recreation	<input checked="" type="checkbox"/> Wildlife Habitat	<input type="checkbox"/> Other:
<p>Description:</p> <p>There are residential and school structures within 30-50m of this TU. In addition to structural values, there are cultural and wildlife/ecosystem values in the community and treatment area. The objective is to minimize the risk of wildfire to these values and provide increased fire suppression opportunities and access.</p> <p>According to available Ministry research and documentation, the historical fire activity in this area is significant with a relatively short cycle and moderate to high intensity.</p> <p>With an increase of population and close proximity to roads, trails, and recreational opportunities, the risk of human caused ignitions is significantly elevated.</p> <p>Layer 1 removal on Reserve lands has many challenges and limited benefits. The prescribed strategies, instead, focus primarily on understory treatments.</p> <p>These treatments will ensure surface fuel loading stays below 0.5 kg/m² (maximum allowable level) to ensure the 2000 kw/m (and 824 kw/m Critical Surface Intensity) threshold is not crossed, and ladder/stratum gap fuels are removed to minimize potential for crown involvement.</p>			
STRATEGIES:	<p>To meet the objectives, a ‘thin from below’ approach will employ several strategies:</p> <ul style="list-style-type: none"> • Ensure surface fuel accumulations are not increased above existing levels. • Remove 100% of conifers in Layers 2, 3, and 4 (including 12.5-17.5cm dbh) within 5m of Layer 1 crown dripline. • Retain conifers in Layer 2, 3, 4 (including 12.5-17.5cm dbh) if >5m outside Layer 1 crown dripline, spaced no closer than 3m apart (stem to stem). Favour larger, healthier trees for retention. • Retain Live Layer 1 trees >17.5cm dbh. • Remove dead/dangerous Layer 1 trees. • Retain CWD up to 10sph (ground fuel 7-20cm diameter). • Retain LDWD up to 4sph (ground fuel >20cm diameter, >10m long). • Limb and Buck (LBD) downed CWD/LDWD as necessary, up to allowable levels. • Retain all deciduous species of all sizes, unless dead/dangerous. • Retain valuable wildlife trees, and CWD where safe and appropriate to do so. • Prune ladder fuels to ensure separation between surface and crown fuels. <p>Retained layer 2 and 3 trees must be pruned to the lower of 3m or 40% of their height (to 3m unless this removes too much live foliage).</p>		

METHODS:	<p>Treatment method options will include:</p> <ul style="list-style-type: none"> • Hand Felling (HF), • Limb and buck downed trees (LBD), • Danger Tree Removal (DTR), • Spacing/Thinning (THIN), • Pile slash (HAND/MECH PILE), • Burn slash piles (BURN), • Chipping/Mulching (CHIP), • Pruning (PRUN)
----------	--

C. FUEL TREATMENT UNIT (FTU) SUMMARY							General Description
FTU	NET AREA (ha)	GROSS AREA (ha)	LEAVE AREAS (ha)	NP (ha)	NAR (ha)	TREATMENT REGIME (i.e. PRU, THIN, Rx BURN, etc.)	
A2	12.9	13.8	0	0.9	N/A	HF, DTR, LBD, THIN, HAND/MECH PILE, BURN and/or CHIP, PRUN	Mixed wood stand with significant understory. The strategy is to remove all understory conifer stems and any layer 1 stems that are dead or dangerous.
TOTALS	12.9	13.8	0	0.9	N/A		

D. SITE CHARACTERISTICS							
FTU	CFFBPS FUEL TYPE	TIMBER TYPE	BGC SUBZONE, VARIANT & SITE ASSOC.	ELEVATION RANGE (m)	SLOPE POSITION	SLOPE RANGE (%)	ASPECT
A2	C5, C7	Fd4Cw3Ep2Lw1(Sx)	IDFmw1	500-550	Middle-Lower	5-35	N-W
FUEL TYPE DETERMINATION		C5 primarily, minor amount of C7.					
REPRESENTATIVE WEATHER STATION		Salmon Arm/ Larch Hills West/ Sicamous					

E. SOIL CHARACTERISTICS							
FTU	SOIL TEXTURE	DUFF DEPTH (cm)	COARSE FRAGMENTS (%)	SOIL DISTURBANCE LIMIT (%)	SOIL HAZARD RATING		
					Compaction	Erosion	Displacement
A2	SiL-fSL	3-5	5	10	H	H	L

F. VALUES – FOREST AND RANGE PRACTICES ACT				
RIPARIAN & LAKESHORE AREAS - Forest Planning and Practices Regulation (FPPR) division 3, Government Action Regulation (GAR) section 6, Forest and Range Practices Act (FRPA) sections 180 and 181				
Is the proposed burning, cutting, modification or removal of trees, or site preparation, in an area that contains streams, lakes or wetlands?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		No streams, lakes, or wetlands in the vicinity.	
RIPARIAN MANAGEMENT AREAS (RMAs) - FPPR sections 51 and 52				
STREAM, LAKE, WETLAND ID	CLASS	RRZ (m)	RMZ (m)	SPECIFICATIONS FOR RIPARIAN OR LAKESHORE MANAGEMENT AREAS
None				
TEMPERATURE SENSITIVE STREAMS - FPPR section 53, GAR section 15, FRPA sections 180 and 181				
Are there temperature sensitive streams or direct tributaries to temperature sensitive streams within or adjacent to the proposed treatment area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		There are no known temperature sensitive streams within, or adjacent to, the treatment area.	
ROAD CONSTRUCTION IN RIPARIAN MANAGEMENT AREAS - FPPR section 50				
Is road construction proposed in riparian management areas within the treatment area or an associated road permit (RP)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		No roads will be constructed in the treatment area.	
STREAM CROSSINGS - FPPR section 55				
Will stream crossings be constructed within the proposed treatment area or a road permit road providing access to the treatment area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		No stream crossings will be constructed in the treatment area.	
MAINTAINING STREAM BANK AND CHANNEL STABILITY ON S4, S5, and S6 STREAMS - FPPR section 52 (2)				
Is the proposed treatment in the RMZ of an S4, S5 or S6 stream that is directly tributary to an S1, S2 or S3 stream and the activity is likely to contribute significantly to the destabilization of the stream bank or the stream channel?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		There are no known streams within the treatment area. None were observed during field work.	
DOMESTIC WATER LICENCES (inside or outside of community watershed) - FPPR section 59				
Does the proposed treatment area contain water sources that are diverted for human consumption by a licensed waterworks?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		There are no known water sources that are diverted for human consumption within the treatment area.	
LICENCED WATER WORKS (inside or outside of a community watershed) - FPPR section 60				
Does the proposed treatment include areas that are within 100m of a licensed waterworks?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		There are no known licensed waterworks within, or adjacent to, the treatment area.	

FISHERIES SENSITIVE WATERSHED - GAR section 14, FPPR section 8.1				
Are any activities proposed within a fisheries sensitive watershed?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The treatment area is not within a fisheries sensitive watershed		
COMMUNITY WATERSHED - GAR section 8, FPPR section 8.2, 61, 62 and 84				
Does the proposed treatment area include areas that are within a community watershed?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The treatment area is not within a community watershed.		
Will this project require road or guard construction or deactivation within a community watershed?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The treatment area is not within a community watershed.		
WATERSHED ASSESSMENT CONSIDERATIONS - FRPA section 180 areas with "significant watershed sensitivity"				
Does the proposed treatment area include areas that have watershed assessment considerations?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The area does not require watershed assessment considerations.		
SOIL DISTURBANCE AND PERMANENT ACCESS STRUCTURES - FPPR sections 35 and 36				
Fuel Treatment Unit	Proposed Max Allowable Soil Disturbance	Proposed Max. Soil Disturbance for Roadside Work Areas	Proposed Max Permanent Access Structures	Comments:
A2	10%	25%	7%	No proposed access structures. Existing access includes old roads and trails. Minimal disturbance anticipated.
Do the proposed Permanent Access Structures exceed 7% of the total area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	No permanent access structures are proposed.		
LANDSLIDES AND TERRAIN STABILITY - FPPR section 37				
Does the proposed treatment area include areas where terrain stability is a concern?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	No terrain stability class 4 or 5 is present within the treatment area. No indications of potential slope instability were observed.		
SUITABLE SECONDARY STRUCTURE - FPPR section 43.1				
Does the proposed treatment area include a "targeted pine leading stand"?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	There are no pine leading stands meeting these criteria within the treatment area.		
UNGULATE WINTER RANGE - GAR section 12, FRPA sections 180 and 181, FPPR section 69				
Does the proposed treatment area include areas within an Ungulate Winter Range?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The treatment area does not overlap with nor is it adjacent to an Ungulate Winter Range.		
WILDLIFE HABITAT AREA - GAR section 10, FRPA sections 180 and 181, FPPR section 69				
Does the proposed treatment area include any wildlife habitat areas (WHA)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The treatment area does not overlap with nor is it adjacent to a Wildlife Habitat Area.		

MIGRATORY BIRD CONVENTION ACT - 1994		
Does the proposed treatment have the potential to impact migratory bird habitat?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Implementation of this prescription is anticipated to have minimal impact on Migratory Bird habitat. Avoid activities during the nesting period (~April to ~August). If a nest is identified, cease work within 100m and seek direction from a QRP (RPBio).
OBJECTIVES SET BY GOVERNMENT FOR WILDLIFE - FPPR section 7		
Does the proposed treatment area include areas to which objectives for wildlife under FPPR section 7 apply?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	No known occurrences of the species listed in the Notice given under FPPR Section 7 (2) for the Okanagan Shuswap Forest District dated 30.12.2004 are present in the area. During field work none of the species or signs thereof were observed.
OBJECTIVES SET BY GOVERNMENT FOR BIODIVERSITY OBJECTIVES (Landscape Level) - FPPR Part 4 Division 5		
Does the proposed treatment area include areas to which objectives for landscape level biodiversity under FPPR section 9 apply?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	No OGMAs (legal or non-legal) are present in the treatment area. No other biodiversity objectives exist in the treatment area.
OBJECTIVES SET BY GOVERNMENT FOR BIODIVERSITY OBJECTIVES (Stand Level) - FPPR Part 4 Division 5		
Are considerations for maintaining stand structure (wildlife trees, wildlife tree reserves, etc.), coarse woody debris, and maintaining tree and vegetation species composition incorporated into this prescription?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	All live layer 1 trees >17.5cm dbh are to be retained, maintaining the natural stand structure and biodiversity of the site. Any Wildlife Trees will be retained. CWD up to 10sph (ground fuel 7-20cm diameter), and LDWD up to 4sph (ground fuel >20cm diameter, >10m long) will be retained, with a minimum spacing of 3m. See section H.5 for details. Understory deciduous and brush species will be retained as much as practicable.
RECREATION FEATURES - FRPA section 56 and 149, FPPR section 70		
Does the proposed treatment area contain interpretive sites, recreation trails, recreation sites, recreation facilities that are of significant recreation value and are designated a resource feature?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	There are no designated recreation trails within the treatment area. Any affected roads and trails should be cleaned post treatment, so they reflect (at a minimum) pre-treatment conditions.
VISUAL QUALITY OBJECTIVES - GAR section 7, FRPA sections 180 and 181, FPPR section 9.2		
Is the proposed treatment within a scenic area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	This area is in a Modification polygon. The prescribed treatment is anticipated to have a minimal impact on visual quality.

ARCHAEOLOGICAL RESOURCES/CULTURAL HERITAGE RESOURCES - FPPR section 10		
<p>Are there any known archaeological sites or cultural heritage resources that are important to First Nations within the proposed area?</p> <p>No Referral to Land Manager is required if proposed TU is on the applicant's own First Nation Land.</p>	<p>Yes <input type="checkbox"/></p> <p>No <input checked="" type="checkbox"/></p>	<p>None identified to date. Should the contractor notice any heritage values, work should cease immediately, and the project manager notified.</p>
INVASIVE PLANTS - FRPA section 47 and FPPR section 17		
<p>Is the introduction and spread of invasive plants likely as a result of the proposed treatment?</p>	<p>Yes <input type="checkbox"/></p> <p>No <input checked="" type="checkbox"/></p>	<p>Little to no machine access required, other than on existing roads. In hand treatment areas, workers must be aware of the risk of spreading invasive plants. To limit the likelihood of spread, the workers should:</p> <ul style="list-style-type: none"> • be able to identify invasive species, • avoid walking and driving through areas of plant infestations, check footwear, clothing, and gear for invasive plant seeds.
NATURAL RANGE BARRIERS - FRPA section 48, FPPR section 18		
<p>Are there natural range barriers within the proposed treatment area that are likely to be removed or rendered ineffective?</p>	<p>Yes <input type="checkbox"/></p> <p>No <input checked="" type="checkbox"/></p>	<p>No natural range barriers observed and no indication of livestock grazing within treatment unit.</p>
SPECIES AT RISK – FPPA section 7		
<p>Are there species at risk present within the boundaries of the prescribed treatment area?</p>	<p>Yes <input type="checkbox"/></p> <p>No <input checked="" type="checkbox"/></p>	<p>No known occurrences of the species listed in the Notice given under FPPR Section 7 (2) for the Okanagan Shuswap Forest District dated 30.12.2004 are present in the area. During field work none of the species or signs thereof have been observed.</p>
<input type="checkbox"/> LAND USE OBJECTIVES (Higher Level Plans and objectives set by Government under the <i>Land Act</i>)		
<p>Are there land use objectives (higher level plans or objectives under the <i>Land Act</i>) that apply to the proposed treatment area or a Road Permit necessary to provide access to the treatment area?</p>	<p>Yes <input type="checkbox"/></p> <p>No <input checked="" type="checkbox"/></p>	<p>No proposed access, existing access is sufficient.</p>
<p>Do the proposed activities conflict with land use objectives (higher level plans or objectives under the <i>Land Act</i>)?</p>	<p>Yes <input type="checkbox"/></p> <p>No <input checked="" type="checkbox"/></p>	<p>The prescribed treatment is anticipated to be consistent with applicable land use objectives.</p>
<p>Known and potential species at risk, windthrow hazard, and old growth management areas</p>	<p>Yes <input type="checkbox"/></p> <p>No <input checked="" type="checkbox"/></p>	<p>The treatment area does not overlap with any known species at risk.</p>

G. OTHER CONSIDERATIONS AND REQUIREMENTS		
ENGAGEMENT AND CONSULTATION – FIRST NATIONS		
FIRST NATION	SUMMARY OF ENGAGEMENT, INFORMATION SHARING, CONCERNS IDENTIFIED AND MEASURES TO ADDRESS	
Splatsin FN	Treatment is on Splatsin Reserve land. Applicable referrals to be completed by Splatsin First Nation.	
First Nations consultation complete?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The proposed activities are being developed in partnership with the Splatsin First Nation. The treatment unit is located on Splatsin I.R. No. 2 land.
CONSULTATION – GENERAL		
Treatment is on Splatsin Reserve land. Applicable referrals to be completed by Splatsin First Nation.		
EXISTING TENURE HOLDERS (Forest, Range, Guide Outfitters, Trappers, etc.)		
Tenure Holder	Concerns?	Measures proposed to address licensee's assets / concerns
None	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A
PRIVATE PROPERTY		
Does private property border the proposed treatment area?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	There is private property adjacent to the treatment area. These properties will benefit from the implementation of this prescription.
SMOKE MANAGEMENT		
Does a smoke management plan beyond OBSCR exist for the proposed treatment area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The successful contractor will develop a smoke management plan consistent with all applicable municipal bylaws and provincial legislation prior to the commencement of any burning.
SAFETY		
Have any specific safety concerns been identified in or adjacent to the proposed treatment area?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Some barbed wire fences exist on TU edges – see map. Contractors will be required to meet all WorkSafe BC requirements and current industry standards regarding work around danger trees.
UTILITIES & INFRASTRUCTURE		
Are utilities or infrastructure located in or adjacent to the proposed treatment area? i.e. power lines, rail lines, etc.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Water storage and piping infrastructure exists in and beside the treatment area. The waterline must not be crossed by machinery without the permission of the supervisor.
ACCESS CONTROL		
Are there any foreseen issues with access and access control during and post treatment?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Access control may be required during treatment operations due to proximity of treatment area to residences, Shihiya School, and the water treatment plant.
TRAFFIC CONTROL		
Is traffic control required at any point during operations?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	A traffic control plan may be required due to the proximity of the treatment area to roads, trails, and residences.
OTHER (E.g Public Notification)		
Band members should be informed before the commencement of operations in each TU area. On-site signage should be sufficient once notifications have been established.		

H. FUEL LOADING AND TREATMENT SPECIFICATIONS
Fuel Treatment Unit ID: A2
H.1 TREATMENT SPECIFICATIONS SUMMARY
FUEL REMOVAL/RETENTION STRATEGY BY SIZE/SPECIES
<p>To meet the objectives, a ‘thin from below’ approach will employ several strategies:</p> <ul style="list-style-type: none"> • Ensure surface fuel accumulations are not increased above existing levels. • Remove 100% of conifers in Layers 2, 3, and 4 (including 12.5-17.5cm dbh) within 5m of Layer 1 crown dripline. • Retain conifers in Layer 2, 3, 4 (including 12.5-17.5cm dbh) if >5m outside Layer 1 crown dripline, spaced no closer than 3m apart (stem to stem). Favour larger, healthier trees for retention. • Retain Live Layer 1 trees >17.5cm dbh. • Remove dead/dangerous Layer 1 trees. • Retain CWD up to 10sph (ground fuel 7-20cm diameter). • Retain LDWD up to 4sph (ground fuel >20cm diameter, >10m long). • Limb and Buck (LBD) downed CWD/LDWD as necessary, up to allowable levels. • Retain all deciduous species of all sizes, unless dead/dangerous. • Retain valuable wildlife trees, and CWD where safe and appropriate to do so. • Prune ladder fuels to ensure separation between surface and crown fuels. • Retained layer 2 and 3 trees must be pruned to the lower of 3m or 40% of their height (to 3m unless this removes too much live foliage).
TREATMENT SPECIFICATION RATIONALE
<p>These specifications are designed to create a shaded fuel break across a strategic area. With a ‘thin from below’ approach, the surface and ladder fuels will be removed to minimize the surface fire intensity (below 2000kw/m standard and the 824 kw/m calculated Critical Surface Intensity) and the potential for crown fire involvement in the event of a wildfire. The retained layer 1 (2, 3) trees will suppress further vegetation recruitment, minimizing the need for future fuel break maintenance. It is anticipated that Layer 2, 3, 4 conifer retention (outside the 5m dripline of Layer 1 trees) will be very low, as crown spacing is typically <10m.</p> <p>This treatment area will be anchored to an adjacent treatment area, as well as various roads, trails, RoWs, and fuel free areas.</p> <p>These specifications of fuel removal have been determined to achieve potential fire intensity levels below 824 kw/m through the use of the prescribed CSI worksheets. Refer to worksheets as supporting documentation.</p> <p>This treatment will promote the safety and security of the residents of Splatsin FN and students of Shihya School, as well as provide fire suppression opportunities and access, and reduce the likelihood of human caused ignitions.</p>
H.2 STAND FUEL LOADING
<p>Is the cutting of standing trees prescribed?</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p>Comments: Layer 1 trees >17.5cm dbh to be retained unless dead or dangerous.</p>

STAND AND STOCK TABLE SUMMARY (copied from Stand and Stock Tables in Appendix)								
Layer Info	Crown Base Height Range (m)	Age / Average Tree Height (m)	STEMS PER HECTARE (sph)			VOLUME PER HECTARE (m ³ /ha) ¹		
			Existing	Cut	Leave	Existing	Cut	Leave
Total All Species Layer 1 >17.5cm dbh	10.2	100 / 21.4	449	*7	442			
Total All Species Layer 2	4.8	80 / 10.8	429	322	**107			
Total All Species Layer 3	2.8	70 / 6.5	1786	1493	**293			
Total All Species Layer 4	0	30 / 0.5	843	843	0			
TOTAL ALL LAYERS			3508	2665	842			

* Table shows cutting of Layer 1 trees. These are **dead** stems.

** Table shows Leaving Layer 2, 3 stems. These are **deciduous** stems.

It is worth noting that retained conifer numbers for Layer 2, 3, 4 (outside 5m dripline of Layer 1) will be very low and are therefore not reflected in this table.

Layer 1 crown spacing is typically <10m, affording few opportunities for Layer 2, 3, 4 retention.

H.3 SURFACE FUEL LOADING (kg/m ²)					
Size Class (cm)	Existing (kg/m ²)	Existing Distribution	Target (kg/m ²)	Target Distribution	Methodology Used
Fine Woody Debris (<=7cm)	0.15	Scattered	0.5 kg/m ²	Scattered	Pile and Burn/Chip
Large Diameter Woody Debris (>7cm – <= 20cm)	2.58	Scattered	Up to 4 sph	Scattered	Buck and Limb, Lay Flat, Pile and Burn/Chip
**Coarse Woody Debris (CWD) (20cm+)	None in Transects	Scattered	Up to 10 sph	Scattered	Buck and Limb, Lay Flat, Pile and Burn/Chip
H.4 CROWN CLOSURE AND CANOPY BULK DENSITY					
Crown Closure (%)	Existing: (Dead / Live) 40-70%		Target: 40-70% - Unchanged		
Canopy Bulk Density (description including fuel stratum gap)	Existing: (Dead / Live) -CBD is 0.12 kg/m ³ , with a fuel stratum gap of <3m. Crown continuity is patchy.		Target: Target CBD Of 0.12 kg/m ³ – unchanged as Layer 1 will be retained. Crown base ht will be increased to a minimum of 3m through pruning and thinning, ensuring a fuel stratum gap of 2-3m, depending on the height of ground fuels (e.g. cured grasses).		

H.5 BIODIVERSITY AND FOREST HEALTH CONSIDERATIONS AND TARGETS	
<p>**COARSE WOODY DEBRIS (CWD) RETENTION TARGET - Pieces / ha and Distribution</p>	<p>CWD (7-20cm diam) is approximately 20 sph, scattered. There is a 10 sph limit. The number over the limit must be removed from the site.</p> <p>LDWD (>20cm diam) is limited to 4sph, as per Chief Forester guidelines. No LDWD pieces were picked up in the transect data collection, but several pieces are likely scattered on site.</p> <p>All retained CWD/LDWD should be spaced a minimum of 3m apart.</p> <p>Note: Logs classified as CWD or LDWD are defined as >50% sound and >50% exposed above ground level. If a downed log is <50% sound or <50% exposed (half buried), it is ignored for the purposes of data collection, treatment, and treatment specifications.</p> <p>Woody debris is a valuable part of biodiversity and should be retained within allowable limits. Allowable limits are derived from Chief Forester guidance, as well as fire intensity calculations/research suggesting CWD does not significantly contribute to these intensity values.</p>
<p>WILDLIFE TREE RETENTION TARGET –</p>	<p>Wildlife trees should be retained where practicable.</p>
<p>FOREST HEALTH-</p>	<p>Stand is healthy, but dead and dying trees may be encountered.</p>

I. TREATMENT DESCRIPTION
<p>MERCHANTABLE TIMBER CUTTING</p>
<p>ROADS, LANDINGS AND TRAILS:</p> <p>While no commercial harvest is allowed, several existing roads and trails in the TU may be utilized, and no new construction is required. All activity related debris will be cleared from roads and trails. Any equipment used must be suitable to the current road conditions, and any damage must be rectified.</p>
<p>FELLING:</p> <p>The TU should be assessed by a qualified individual to ensure dead and dangerous trees are identified, then removed where approved by Splatsin FN. Ensure sufficient traffic and pedestrian control is established where necessary during felling activities.</p>
<p>YARDING/SKIDDING:</p> <p>No sensitive soils on were identified on site, mechanical activities are allowable within soil disturbance limits.</p>
<p>PROCESSING, LOADING AND HAULING:</p> <p>No timber processing, loading, or hauling is allowed.</p>
<p>SLASH DISPOSAL:</p> <p>Slash should be chipped and removed or piled and burned.</p>
<p>SPECIAL MEASURES:</p> <p>None</p>

STAND MODIFICATION TREATMENTS
BRUSHING: Brushing of deciduous stems or woody shrubs is discouraged, retain deciduous and shrubs wherever possible.
PRUNING: Must prune Layer 1,2,3 conifers to a minimum of 3m or 40% of crown, whichever is lower. Measured from the ground to the lowest point of the lowest hanging branch. Branches should be cut flush with the stem and must not exceed a length of 2cm.
THINNING: Remove 100% of conifers in Layers 2, 3, and 4 (including 12.5-17.5cm dbh) within 5m of Layer 1 crown dripline. Retain conifers in Layer 2, 3, 4 (including 12.5-17.5cm dbh) if >5m outside Layer 1 crown dripline, spaced no closer than 3m apart (stem to stem). Favour larger, healthier trees for retention. All stumps must be cut at no more than 30 degrees from horizontal and be less than 15cm in height.
DEBRIS PILING: Hand or mechanical piling may be utilized. All piles must be located far enough from standing timber to avoid scorching.
PILE BURNING: Pile burning must be carried out within the parameters of the smoke management plan. Burning must follow all applicable bylaws and regulations.
MULCHING: If mulching, chips must be removed from the site. Dispersal is not an acceptable method.
MASTICATION: N/A
GRINDING: N/A
PRESCRIBED FIRE: Low intensity prescribed burning does not fall within this plan but may be a subsequent complementary treatment.
PLANTING: N/A
OTHER: LBD – Limb and Buck downed CWD/LDWD as necessary, within allowable limits. LBD specifications require the CWD/LDWD to be limbed and bucked to lay flat on the ground. The top diameter must be >7cm, and the piece length must be a minimum of 3m.
AUTHORIZATION AND TIMBER TENURE REQUIREMENTS
FRPA Section 52: Splatsin FN to apply for applicable permits. Do not commence activities until applicable permits have been received.
Forestry License to Cut (FLTC): Splatsin FN to apply for applicable cutting permits. Do not commence activities until applicable permits have been received.
Park Use Permit: N/A
Road Permit or Road Use Permit: N/A
Other (i.e., local government, utilities, etc.): None

J. POST TREATMENT												
EXPECTED VEGETATION RESPONSE BY FTU: Minimal regeneration expected due to unchanged crown closure.												
ADDITIONAL MONITORING AND MAINTENANCE: TU should be re-assessed every 5 years to determine if maintenance treatments are necessary.												
Planned / Scheduled Monitoring & Maintenance: Recommended												
Time Post Treatment (months / years)	Activity / Treatment:	FTU(s):	Comments:									
5 years	Thinning	A2	Expect low-moderate conifer regeneration.									
Triggers For Maintenance Treatments: Surface fuel accumulations >1.0 kg/m ² , ladder fuel regrowth within 5m of Layer 1 dripline.												
SILVICULTURE OBLIGATIONS: Do silvicultural obligations apply to the treatment area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>												
PLANTING: Is planting a treatment identified in this prescription or required as a legislative obligation? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>												
STOCKING STANDARDS												
FTU	Stocking Standard ID	Pref. Spp.	Acc. Spp.	Well-Spaced Stem/ha				Minimum Height (m)			Regen Delay	Free Growing (years)
				TSS	MSS		MITD	PI	Others	RTH (%)		
					Pref. & Acc.	Pref.						
A2	N/A											
K. Outstanding Works												
Public and Membership advertising of the project												
Application for necessary cutting permit(s)												
L. ADMINISTRATION												
PREPARATION												
QUALIFIED REGISTERED PROFESSIONAL NAME <i>(Printed)</i>						QUALIFIED REGISTERED PROFESSIONAL SIGNATURE						
Steve Giesbrecht, RPF												
PROFESSIONAL ASSOCIATION & MEMBER NUMBER						DATE						
FPBC - RPF 4355						May 16, 2024						

M. ATTACHMENTS			
MAPS:	Yes x No <input type="checkbox"/>	FIELD DATA CARDS:	Yes x No <input type="checkbox"/>
WUI WTA Plots and Photos:	Yes x No <input type="checkbox"/>	CRUISE DATA:	Yes <input type="checkbox"/> No x
AIR PHOTOS/IMAGERY:	Yes <input type="checkbox"/> No x	BURN PLAN:	Yes <input type="checkbox"/> No x
MODELING/DATA ANALYSIS:	Yes <input type="checkbox"/> No x	STAND & STOCK TABLES:	Yes x No <input type="checkbox"/>
SURFACE FUEL LOADING DATA:	Yes x No <input type="checkbox"/>	OTHER: CSI worksheets Yes x No <input type="checkbox"/>	
TERRAIN STABILITY ASSESSMENT	Yes <input type="checkbox"/> No x	VISUAL IMPACT ASSESSMENT	Yes <input type="checkbox"/> No x
Completed By:		Completed By:	
Date:		Date:	
ARCHAEOLOGY IMPACT ASSESSMENT Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		BIOLOGIST ASSESSMENT Yes <input type="checkbox"/> No x	
Completed By:		Completed By:	
Date:		Date:	
ADDITIONAL COMMENTS:			