

Fuel Management Prescription



Ministry of
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A. PROJECT IDENTIFICATION	
PROJECT ID AND UNIT ID: Panorama Mountain Village Treatment Units 1-9	LAND OR TENURE HOLDER: Controlled Recreation Area, Panorama Mountain Resort
LATITUDE/LONGITUDE: 50° 27' 30.99" N; 116° 14' 18.95" W	GEOGRAPHIC DESCRIPTION: The Panorama ski resort is located 20km west of Invermere, along Toby Creek Road.
HIGHER-LEVEL PLAN(s): Kootenay-Boundary Land Use Plan	MAP REFERENCE NUMBER: 082K049

B. PROJECT DESCRIPTION		
OBJECTIVE:	PUBLIC SAFETY X	RANGE IMPROVEMENT ☐
	ECOSYSTEM RESTORATION X	RECREATION ☐
	WILDLIFE HABITAT X	OTHER:
	DESCRIPTION: The crown lands, on which the treatment is occurring, are in the areas surrounding Panorama Mountain Village on the south side of Toby Creek Road. The stands predominantly consist of Douglas Fir (Fd), Lodgepole Pine (Pl) and hybrid White Spruce (Sx) of varying age classes with an understory of minor herbs and shrubs.	
STRATEGIES:	Improve public safety through a reduction in fuel loading (standing and surface fuel) within the wildland urban interface (WUI) to improve survivability of adjacent structures. A reduction in fuel loading should result in lower fire behavior on these lands in the event of a wildfire.	
METHODS:	Hand or machine thinning with piling by hand or machine. Activity fuels to be mitigated through pile burning during appropriate environmental conditions and following all local bylaws and provincial regulations as they apply.	

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C. TREATMENT UNIT (TU) SUMMARY							
TU	NET AREA (ha)	GROSS AREA (ha)	LEAVE AREAS (ha)	NP (ha)	NAR (ha)	TREATMENT REGIME (i.e. PRU, THIN, PIL, BURN)	GENERAL DESCRIPTION
1	1.26	1.26	0	N/a	N/a	Harvest, Pile, Burn	PI stand with Sx regen; flat.
2	5.41	5.41	0	N/a	N/a	Harvest, Pile, Burn	PI stand with minor Sx/Fd regen; 10-40% slope, North aspect.
3	30.76	30.76	0	N/a	N/a	Harvest, Pile, Burn	PI stand with minor Sx; 35-40% slope, Northwest aspect.
4	14.53	14.53	0	N/a	N/a	Harvest, Pile, Burn	PI stand; 25-40+% slope; North aspect.
5	66.45	66.45	0	N/a	N/a	Harvest, Pile, Burn	PI stand; 35-40% slope, West aspect.
6	9.05	9.05	0	N/a	N/a	Harvest, Pile, Burn	FdPI stand with minor Sx; 35-40% slope; North aspect.
7	1.46	1.46	0	N/a	N/a	Thin, Pile, Burn	FdPI stand; 60-70% slope, East aspect.
8	4.13	4.13	0	N/a	N/a	Harvest, Pile, Burn	FdSx stand with minor PI; 45% slope, North aspect.
9	2.86	2.86	0	N/a	N/a	Thin, Pile, Burn	PI stand with minor Fd regen; 70% slope, East aspect.
TOTALS	135.91	135.91	0	N/a	N/a		

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D. SITE CHARACTERISTICS							
TU	CFFBPS FUEL TYPE	TIMBER TYPE	BGC SUBZONE, VARIANT & SITE ASSOC.	ELEVATION RANGE (m)	SLOPE POSITION	SLOPE RANGE (%)	ASPECT
1	C3	Pl ₈₀ Sx ₂₀	MDdk2 04 ₉₀ 01 ₁₀	1104	Toe	<10	Flat
2	C4	PI	MSdk2 (03) 04	1187	Midslope	<10-40	N
3	C4	PI	MSdk2 04 ₉₀ 03 ₁₀	1250	Midslope	35-40	NW
4	C3/C4	PI	MSdk2 04	1326	Midslope	25-40+	N
5	C4	PI	MSdk2 04	1230	Midslope	35-40	W
6	C7/C4	Fd ₇₀ Pl ₂₀ Sx ₁₀	MSdk2	1272	Midslope	30-45	N
7	C7	Fd ₉₀ Pl ₁₀	MSdk2 04	1190	Midslope	60-70	E
8	C7	Sx ₆₀ Fd ₃₀ Pl ₁₀	MSdk2	1191	Midslope	45	N
9	C4	Pl ₈₀ Sx ₁₀ Fd ₁₀	MSdk2	1200	Midslope	70	E
FUEL TYPE DETERMINATION		Fuel typing data was downloaded from the provincial data warehouse. Field verification confirmed as per the above.					

E. SOIL CHARACTERISTICS							
TU	SOIL TEXTURE	DUFF DEPTH (cm)	COARSE FRAGMENTS (%)	SOIL DISTURBANCE LIMIT (%)	SOIL HAZARD RATING		
					Compaction	Erosion	Displacement
1	SiL	3	25	10	High	High	Moderate
2	L/CL	4	25	10	High	High	Moderate
3	SiL	5	25	10	High	High	Moderate
4	CL	5	30	5	Very High	Moderate	Moderate
5	SL/SiCL	5	30	5	Very High	Moderate	Moderate
6	SiL/SI	5	25	5	Very High	Low	Moderate
7	SiL/SiCL	3	30	5	Very High	Very High	Very High
8	SL	6	25	10	Moderate	Moderate	High
9	SL	3	30	5	Moderate	High	Very High

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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 cutting, modification or removal of trees, or site preparation, in an area that contains streams, lakes or wetlands?	<u>Yes</u>	No	The treatment area is upslope of Toby Creek, and there is a small creek within the treatment area 4, which will receive a 40 m management zone.	
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
Cox Creek (TU 4)	S3	20	20	This creek was defaulted to an S3 due to connectivity to Toby Creek.
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	<u>No</u>	N/a	
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	<u>No</u>	N/a	
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	<u>No</u>	N/a	
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?	<u>Yes</u>	No	No operations will occur within the RMZ of Cox or Toby Creeks.	
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	<u>No</u>	The two closest water licenses are located upslope and east of Cox Creek They will be located and buffered in the field prior to treatment. Id #138296590 (50.4566 x 116.2328) Id # 138296587 (50.4575 x 116.2319)	
LICENCED WATER WORKS (inside or outside of a community watershed) - FPPR section 60				
Does the proposed treatment include areas that are within 100 m of a licensed waterworks?	Yes	<u>No</u>		

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FISHERIES SENSITIVE WATERSHED - GAR section 14, FPPR section 8.1				
Are any activities proposed within a fisheries sensitive watershed?	Yes	No	N/a	
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	No	N/a	
Will this project require road construction or deactivation within a community watershed?	Yes	No	N/a	
WATERSHED ASSESSMENT CONSIDERATIONS - FRPA section 180 areas with "significant watershed sensitivity"				
Does the proposed treatment area include areas that have watershed assessment considerations?	Yes	No	The treatment area falls with the Columbia River watershed.	
SOIL DISTURBANCE AND PERMANENT ACCESS STRUCTURES - FPPR sections 35 and 36				
Treatment Unit	Proposed Max. Allowable Soil Disturbance (%) (5% or 10%)	Proposed Max. Soil Disturbance for Roadside Work Areas (%)	Proposed Max. Permanent Access Structures (%)	Comments
No PAS proposed	N/a	N/a	N/a	
Do the proposed Permanent Access Structures exceed 7% of the total area?	Yes	No	No access structures proposed.	
LANDSLIDES AND TERRAIN STABILITY - FPPR section 37				
Does the proposed treatment area include areas where terrain stability is a concern?	Yes	No	N/a	
SUITABLE SECONDARY STRUCTURE - FPPR section 43.1				
Does the proposed treatment area include a "targeted pine leading stand"?	Yes	No	Several polygons (TU 1-5 and 9) are pine leading stands. As per Section 43.1 (2c), treatment of the stands is intended to reduce the risk of wildfire to the community.	
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	No	The treatment area is within a designated UWR (UWR# u-4-008, species M-ALAL). Treatments will retain the largest stems and, where possible, enough refugia patches to provide cover.	
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	No	N/a	
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	No	N/a	
OBJECTIVES SET BY GOVERNMENT FOR BIODIVERSITY OBJECTIVES (Landscape Level) - FPPR section 9				

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Does the proposed treatment area include areas to which objectives for landscape level biodiversity under FPPR section 9 apply?	Yes	<u>No</u>	N/a
OBJECTIVES SET BY GOVERNMENT FOR BIODIVERSITY OBJECTIVES (Stand Level) - FPPR section 9.1			
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?	<u>Yes</u>	No	All large trees (>25cm dbh) are being left standing on site or as CWD where they are felled (if necessary for safety). Any large wildlife trees that are assessed as dangerous to work around will have No Work Zones established around them.
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 considered to be of significant recreation value and are designated a resource feature?	<u>Yes</u>	No	The treatment area is located surrounding the Panorama Mountain Resort, a year-round alpine resort with high recreation use. The area encompasses a network of ski slopes, mountain biking trails and hiking trails. Chair lifts cross through the treatment area. Additionally, Toby Creek is used for whitewater rafting, kayaking etc.
VISUAL QUALITY OBJECTIVES - GAR section 7, FRPA sections 180 and 181, FPPR section 9.2			
Is the proposed treatment within a scenic area?	<u>Yes</u>	No	The treatment area has a Visual Sensitivity Class of 2 (high) and an Recommended Visual Quality Class of M (modification). The treatment area experiences high recreation use year-round by skiers, hikers, bikers, etc.
ARCHAEOLOGICAL RESOURCES/CULTURAL HERITAGE RESOURCES - FPPR section 10			
Are there any known archaeological sites or cultural heritage resources that are important to First Nations within the proposed area?	Yes	<u>No</u>	There are no known archaeological sites within the provincial data base for the treatment area. There was no AOA or AIA completed so should the contractor notice any such features during operations they should cease work and contact the land manager immediately.
INVASIVE PLANTS - FRPA section 47 and FPPR section 17			
Is the introduction and spread of invasive plants likely as a result of the proposed treatment?	Yes	<u>No</u>	Few invasive plants were note onsite and it not anticipated they will be an issue post treatment.
NATURAL RANGE BARRIERS - FRPA section 48, FPPR section 18			
Are there natural range barriers within the proposed treatment area that are likely to be removed or rendered ineffective?	Yes	<u>No</u>	N/a
LAND USE OBJECTIVES (Higher Level Plans and objectives set by Government under the <i>Land Act</i>)			
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?	Yes	<u>No</u>	N/a

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Do the proposed activities conflict with land use objectives (higher level plans or objectives under the <i>Land Act</i>)?	Yes	<u>No</u>	The project area is within a Controlled Recreation Area. More open stands will reduce potential wildfire behaviour and subsequently improve community wildfire protection while potentially contributing to more recreation/trail opportunities within the more open stands.
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G. OTHER CONSIDERATIONS AND REQUIREMENTS			
CONSULTATION – FIRST NATIONS			
FIRST NATION		CONCERNS IDENTIFIED AND MEASURES TO ADDRESS	
First Nations consultation complete?	Yes	<u>No</u>	No First Nation consultation or information sharing was undertaken. The Resort has a strong working relationship with the Shuswap Indian Band and they will undertake such consultation as per their policies prior to operations commencing.
CONSULTATION – GENERAL			
EXISTING TENURE HOLDERS (Forest, Range, Guide Outfitters, Trappers)			
Tenure Holder	Concerns		Measures proposed to address licensee's concerns
Panorama Mountain Resort	Yes	<u>No</u>	The Resort is the proponent of this project.
PRIVATE PROPERTY			
Does private property border the proposed treatment area?	<u>Yes</u>	No	Notice should be provided to private land owners as to why the Resort is engaging in fuel management work.
SMOKE MANAGEMENT			
Does a smoke management plan exist for the proposed treatment area?	Yes	<u>No</u>	The contractor will be held responsible for all operations including pile burning. The Fire Centre will be contacted regarding a spot forecast prior to burning at the contractor's discretion. The District and Fire Chief will be made aware of any burning.
SAFETY			
Have any specific safety concerns been identified in or adjacent to the proposed treatment area?	<u>Yes</u>	No	The Resort is highly used by the public for year-round recreation (hiking, biking, skiing, etc). Appropriate signage within the park and advertising in the paper regarding park closures will be required.
UTILITIES			
Are utilities located in or adjacent to the proposed treatment area? i.e. power lines, gas lines, etc.	<u>Yes</u>	No	Power lines exist along the road resort system but are outside the treatment area.
ACCESS CONTROL			
Are there any foreseen issues with access and access control during and post treatment?	<u>Yes</u>	No	The Resort is used by the public for year-round recreation (hiking, biking, equestrian activities, etc). As such, the contractor will be required to post adequate signage to keep the public out of the operational area. Information on temporary closures to the public in the treatment area will be advertised in the paper and signs will be posted at the designated entrances to the park.
TRAFFIC CONTROL			
Is traffic control required at any point during operations?	Yes	<u>No</u>	There are no public road systems within the treatment area. Any machinery that may be used by the contractor will need to be unloaded on public roads and traffic control will be the responsibility of the contractor.

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OTHER

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H. STAND AND STOCK TABLE								
Species and Diameter Class	Average Crown to Base Height (m)	Average Tree Height (m)	STEMS PER HECTARE (sph)			VOLUME PER HECTRARE (m³/ha)		
			Existing	Cut	Leave	Existing	Cut	Leave
Layer 1 (>27.5 dbh)								
TU 6: Fd	15.7	23.7	300	None	All	72.7	0	72.7
TU 7: Fd	7.5	23.5	500	None	All	38.0	0	38.0
TU 8: Fd	12.5	23.5	100	None	All	72.2	0	72.2
TU 8: Sx	13.3	24.0	150	None	All	73.4	0	73.4
TU 9: PI	7	22	50	None	All	69.2	0	69.2
Total Dead Potential	0	0	0	0	0	0	0	0
Total Live			1100	0	1100			
Total All Species			1100	0	1100			
Total Conifers			1100	0	1100			
Layer 1 (> 22.5 cm - 27.5 cm dbh)								
TU 2: PI	17	24	67	0	67	5.2	-	5.2
TU 3: PI	10	20	200	0	200	42.7	-	42.7
TU 4: PI	7	16	300	0	300	44.4	-	44.4
TU 6: Fd	17	24	300	300	-	51	51	-
TU 6: Sx	17	24	100	-	100	51	51	-
TU 6: PI	17	21	200	-	200	46.3	46.3	-
TU 8: Fd	2	17	50	50	-	38.6	38.6	-
TU 8: Sx	2	17	50	50	-	38.6	38.6	-
TU 8: PI	2	17	50	50	-	38.9	38.9	-
TU 9: PI	5	20	50	0	50	44.4	-	44.4
Total Dead Potential	0	0	0	0	0	0	0	0
Total Live			1367	0	1367			
Total All Species			1367	0	1367			
Total Conifers			1367	0	1367			
Layer 1 (> 17.5cm dbh – 22.5 cm dbh)								
TU 1: PI	8	15	50	0	50	22.5	-	22.5
TU 2: PI	16.8	20.3	733	533	200	28.7	-	7.7
TU 3: Sx	3	17	33	0	33	2.47	2.47	
TU 3: PI	15.0	20	167	100	67	28.4	11.4	17.0
TU 4: PI	14.8	19.4	850	850	0	27.7	27.7	0
TU 5: PI	7.0	16	200	200	0	23.7	23.7	0
TU 6: Fd	15	20	400	400	0	28.2	28.2	0
TU 6: PI	7	9	50	50	0	15.2	15.2	0
TU 7: PI	15.9	21.7	700	700	0	30.4	30.4	0
TU 8: Fd	15.5	17.5	100	100	0	25.3	0	25.3

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TU 8: Sx	14.3	18.3	150	150	0	26.2	0	26.2
TU 9: PI	13.5	20.1	550	200	0	28.5	10.3	18.2
Total Live			3983	3283	700			
Total All Species			3983	3283	700			
Total Conifers			3983	3283	700			
Layer 1 (≥ 12.5 cm – 17.5 cm dbh)								
TU 1: Sx	7.7	10.6	500	500	0	9.6	9.6	0
TU 1: PI	12.0	14.0	350	350	0	1.2	1.2	0
TU 2: PI	11.8	14.3	650	650	0	12.2	12.2	0
TU 3: PI	14.5	16.9	767	767	0	13.9	13.9	0
TU 4: PI	13.6	16.9	733	733	0	13.9	13.9	0
TU 5: PI	7.0	16.0	750	550	200	13.4	10.05	3.35
TU 6: Fd	10	15	300	300	0	12.6	12.6	0
TU 6: Sx	10	15	100	100	0	12.6	12.6	0
TU 6: PI	10	15	1500	1500	0	12.7	12.7	0
TU 8: Fd	10.0	14.0	50	50	0	11.9	11.9	0
TU 8: Sx	7.8	12.3	200	200	0	10.7	10.7	0
TU 9: PI	7.9	14.6	700	500	200	12.4	8.8	3.6
Total Dead Potential	0	0	0	0	0	0	0	0
Total Live			6600	6200	400			
Total All Species			6600	6200	400			
Total Conifers			6600	6200	400			
Total Layer 1								
Total Layer - All Species			13050	9483	3567			
Total Layer - Conifers Only			13050	9483	3567			
Layer 2 (≥ 7.5 - 12.5 dbh)								
TU 1: Sx	8.0	10.5	700	700	0	4.3	4.3	0
TU 1: PI	10.0	13.0	650	650	0	5.0	5.0	0
TU 2: PI	8.7	12.0	300	300	0	4.7	4.7	0
TU 3: Sx	2.0	14.0	33	33	0	5.3	5.3	0
TU 3: PI	12.8	16.1	500	500	0	5.9	5.9	0
TU 4: PI	4.8	8.5	400	400	0	3.7	3.7	0
TU 5: PI	9.1	15.0	533	533	0	5.6	5.6	0
TU 6: Fd	8.0	10.0	300	300	0	4.1	4.1	0
TU 6: PI	4.8	8.4	250	250	0	3.6	3.6	0
TU 7: Fd	8.0	10.0	50	50	0	4.1	4.1	0
TU 8: Sx	4.0	6.0	50	50	0	2.9	2.9	0
TU 8: PI	4.0	6.0	50	50	0	2.9	2.9	0
TU 9: PI	2.0	5.0	150	150	0	2.6	2.6	0
Total Dead Potential	0	0	0	0	0	0	0	0
Total Live			3966	3966	0			

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Total Layer 2 - All Species			3966	3966	0			
Total Layer 2 - Conifers Only			3966	3966	0			
Layer 3 (≥ 1.3 cm - 7.5cm dbh)								
TU 1: Sx	2.8	3.6	1900	1900	0	0.6	0.6	0
TU 1: PI	1.0	10.0	150	150	0	1.0	1.0	0
TU 2: Fd	10.0	12.0	33	33	0	1.2	1.2	0
TU 2: Sx	5.5	7.3	67	67	0	0.9	0.9	0
TU 2: PI	10.0	12.0	200	200	0	1.2	1.2	0
TU 3: PI	1.2	8.8	300	300	0	0.9	0.9	0
TU 4: PI	13.0	15.0	200	200	0	1.4	1.4	0
TU 5: PI	3.0	5.0	1300	1300	0	0.6	0.6	0
TU 6: Fd	3.0	5.0	300	300	0	0.6	0.6	0
TU 6: Sx	4.0	5.0	500	500	0	0.6	0.6	0
TU 6: PI	3.0	5.0	1300	1300	0	0.6	0.6	0
TU 7: Fd	1.0	4.0	100	100	0	0.6	0.6	0
TU 7: PI	1.0	4.0	50	50	0	0.6	0.6	0
TU 8: Fd	4.0	5.0	150	150	0	0.6	0.6	0
TU 8: Sx	4.0	5.0	100	100	0	0.6	0.6	0
TU 9: PI	1.0	5.0	350	350	0	0.6	0.6	0
Total Layer 3 - All Species			7000	7000	0			
Total Layer 3 - Conifers			7000	7000	0			
Layer 4 (<1.3 cm dbh)								
Total Layer 4 - All Species	-	-	-	-	-	-	-	-
Total Layer 4 – Conifers	-	-	-	-	-	-	-	-
* Add additional diameter classes if required								
SURFACE FUEL LOADING (kg/m²)	Existing: 10-35+ kg/m²			Target: 10-20 kg/m²				
	Distribution: Scattered			Distribution: Scattered				
	Method used to measure:		Ocular estimates					
Crown Closure (%):	Existing: 40%-80%+			Target: >40%				
BIODIVERSITY AND FOREST HEALTH CONSIDERATIONS AND TARGETS								
COARSE WOODY DEBRIS (CWD) RETENTION TARGET - sph and Distribution	Felled and existing stems in larger diameter classes may be left on site as CWD under the following criteria: <ul style="list-style-type: none">Pieces are >25cm and preferably in higher decay classes, if they exist, suitable for habitat;If fallen as part of the treatment, pieces should not form a large jackpot that will contribute to a high intensity fire and/or high flame lengths;Pieces should be bucked flush with the ground (fallers can buck/limb existing CWD to meet this criteria) and stems are bucked into individual pieces no more than 5m in length;							

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	<ul style="list-style-type: none"> • Candidate pieces are more than 5m from another piece of felled or retained large diameter CWD; • Pieces are not within 30m of homes or other structures (high value pieces may be moved outside this distance if feasible to do so); • No more than 5-20 tons/ha should be left on site as large CWD (10 pieces x 25cm dbh per ha)
WILDLIFE TREE RETENTION TARGET	All large existing wildlife trees are being retained as the treatment undertaken will be a low thinning. Any wildlife trees that are deemed unsafe to work around will have a No Work Zone marked in the field and the forest professional informed of the location and the lack of treatment in this NWZ.
FOREST HEALTH	Minor MPB Pli green attack trees were noted within the treatment area. The overstory is generally in good health and the reduction in stem density should result in less competition for site resources and improve forest health. Green attack stems should be felled and burned as part of this treatment.
TREATMENT SPECIFICATIONS SUMMARY	
TU	TREE REMOVAL/RETENTION STRATEGY BY SIZE/SPECIES (Summarize specifications identified in table above)
All	All treatment will be by hand or machine, where terrain allows, with pile and burning of activity fuels.
TREATMENT SPECIFICATION RATIONALE (See notes to assist)	
The preferred treatment window will be during the early summer or early fall for thinning operations. Burning should occur in late winter/early spring or late fall/early winter (outside ski/bike season). Operations during these times should avoid operating on wet soils that would contribute to erosion and compaction.	

I. TREATMENT DESCRIPTION
MERCHANTABLE TIMBER HARVEST
ROADS, LANDINGS AND TRAILS: No permanent roads or trails will be built. Any temporary trails that are required for transiting of machinery to, and within, TUs will undergo rehabilitation by the contractor.
FELLING: Felling will be by hand and performed by WCB certified fallers where the size of the tree warrants it.
YARDING/SKIDDING: N/a
LOADING AND HAULING: N/a
SLASH DISPOSAL: N/a
SITE DISTURBANCE: N/a
SPECIAL MEASURES: N/a
STAND MODIFICATION TREATMENTS
MERCHANTABLE TIMBER UTILIZATION: Was commercial timber harvest considered? Yes ☐ No ☒ If commercial timber harvest not prescribed, explain: Merchantable timber was marginal and within close proximity of the resort, which could result in conflicts with the tourism based economy as well as recreationalists.
BRUSHING: N/a
PRUNING: Pruning will be to 2m on slopes <15% and to 3m on slopes greater than 15%.
THINNING: A low thinning by hand will be implemented.

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DEBRIS PILING: Piling will be by hand or machine on slopes <30%.
PILE BURNING: Pile burning will occur when environmental conditions permit and according to District/Resort Bylaws. Burning should occur in the fall or late winter/early spring.
MULCHING: N/a
MASTICATION: N/a
GRINDING: N/a
PRESCRIBED FIRE: N/a
PLANTING: N/a
OTHER: N/a
AUTHORIZATION AND TIMBER TENURE
FRPA Section 52: As required for operation within a Controlled Recreation Area
Forestry Licence to Cut (FLTC): N/a
Park Use Permit: N/a
Road Permit or Road Use Permit: N/a
Other (i.e. local government, utilities, etc.): The Fire Chief should review any documents associated with pile burning.

J. POST TREATMENT												
EXPECTED VEGETATION RESPONSE: Opening the overstory should improve vegetation vigor.												
ADDITIONAL TREATMENTS OR MAINTENANCE: The site should be reviewed in 5-10 yrs to determine whether a maintenance treatment to reduce the suppressed and intermediate density.												
SILVICULTURE OBLIGATIONS: Do silvicultural obligations apply to the treatment area? <u>No</u>												
PLANTING: Is planting a treatment identified in this prescription or required as a legislative obligation? <u>No</u>												
STOCKING STANDARDS: N/a												
TU	Stocking Standard ID	Pref. Spp.	Acc. Spp.	Well-Spaced Stem/ha				Minimum Height (m)			Regen Delay	Free Growing (years)
				TSS	MSS		MITD					
					Pref. & Acc.	Pref.		PI	Others	RTH (%)		
N/a	-	-	-	-	-	-	-	-	-	-	-	-

K. Outstanding Works
The boundaries for each polygon have yet to be flagged in the field. This is due to the site being a high recreation use area and the anticipation that any ribbons hung in the field could potentially be removed by the public. As such, should the Resort implement the prescription, the site will need to be flagged prior to operations commencing.

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L. ADMINISTRATION	
PREPARATION	
	
FOREST PROFESSIONAL NAME <i>(Printed)</i>	FOREST PROFESSIONAL SIGNATURE
John Davies	
MEMBER NUMBER	DATE
RPF #4267	10 May 2018

M. ATTACHMENTS			
MAPS :	Yes	FIELD DATA CARDS:	No
WUI WTA Plots and Photos:	Yes	CRUISE DATA:	No
AIR PHOTOS/IMAGERY:	No	BURN PLAN:	No
MODELING/DATA ANALYSIS:	No	OTHER:	No
TERRAIN STABILITY ASSESSMENT	No	VISUAL IMPACT ASSESSMENT	No
ARCHAEOLOGY IMPACT ASSESSMENT	No	BIOLOGIST ASSESSMENT	No
Completed By:		Completed By:	
Date:		Date:	
ADDITIONAL COMMENTS:			