

TSL A83819-CO71G HARVEST PLAN

ARCHAEOLOGICAL/CULTURAL HERITAGE

A PFR was completed with no findings. This development is consistent with the PFR report. If a previously unidentified Cultural Heritage Resource is encountered during harvesting, road construction or mechanical site preparation operations are required to cease to the extent necessary to protect the cultural heritage resource and notify BCTS.

FOREST HEALTH

Whitebark pine was identified and noted as regenerating in the area, therefore efforts will be made where operationally feasible to protect all pine regen.

WILDLIFE/ENDANGERED SPECIES

Evidence of mountain beaver was observed along riparian areas during 2013 field work. Riparian areas have been managed with Machine Free Zone, if dens are located during harvest notify BCTS and take measures to conserve site by treating as a MFZ.

LEAVE TREES AND BIODIVERSITY

The retention strategy will be to retain 90% Fd, Hw, and Cw stems. This results in approximately 7 stems/ha retained. The stems are not equally distributed; also 95% of the deciduous stems are to be reserved from harvest (none were encountered in the cruise) with incidental removal allowed for safety and access only.

Where possible, retain undersized hemlock, spruce and balsam; poles and saplings to be retained should be >1.3m in height, have >50% live crown and preferably be in groups of >3 stems. Residual stems should be in moderate to good form and vigor, and free of defects and disease.

STUBBING

In areas that lack suitable leave trees, stubs will be created (3- 5/ha) in all mechanically felled areas and will be approx. 3-5m in height. Preference is to be given to the top 10% of dbhs available and those with basal scars.

COARSE WOODY DEBRIS

The licensee must retain a minimum of 10 full length logs per hectare, having a minimum dbh of 17.5cm. Efforts will be made to ensure these logs are not broken at time of harvesting. Logs may consist of a variety of species and shall be evenly distributed across the cutblock.

SLOPES

Slopes in excess of 35% exist within the block (Refer to Harvest Plan map). The licensee must ensure that written, site specific, safe work practices, acceptable to WorkSafeBC, are developed and implemented to ensure the equipment's stability during operation, as per Section 26.16 of the OHS Regulation.

SOILS

HAZARD RATINGS					SOIL DISTURBANCE			SOIL CHARACTERISTICS			
					Max Allow Max Amount TAS may	Max Allow Perm Access	MASD for Roadside	Depth to Unfavorable Subsoil		Sediment Delivery	
SU	Soil Comp.	Soil Erosion	Soil Disp.	Max Allow Soil Dist %	exceed MASD prior	Structures %	work areas %	Min (cm)	Max (cm)	Type of Unfavorable Subsoil	Risk (Comm. Watershed)
1	M	H	M	10.0	5.0	7.0	25.0				
2	M	M	M	10.0	5.0	7.0	25.0				
SU	Critical site conditions that affect the timing of operations and how they affect the timing										
1/2	Recommend harvest on dry or frozen soils or on soils covered with sufficient snow pack. Recommend using a random skidding pattern and avoid skidding across depressional areas when wet.										

RIPARIAN FEATURES:

Where possible minimize disturbance to herbaceous vegetation by directional falling and skidding away from riparian areas. Operational activities will be conducted to ensure that natural surface drainage patterns are maintained.

Riparian I.D. and Class.	RMZ WID TH (M)	SU	Leave Trees (Species, BA or SPH Retained)	Comments (Indicate if in a community watershed)
71G-3-S6	20	1	-	This stream is being managed with a 5m MFZ on each side and a 20m RMZ. Retain stems as per the leave tree section.
71G-4-S6	20	1	-	This stream is being managed with a 5m MFZ on each side and a 20m RMZ. Retain stems as per the leave tree section.
71G-2-S4	30	1	-	This stream is being managed with a 5m MFZ on each side and a 30m RMZ. A minimum of 10% basal area retention will be retained as the majority of the S4 is outside the block. On the short section within the block retain stems as per the leave tree section.
71G-2-S6	20	1	-	This stream is being managed with a 5m MFZ on each side and a 20m RMZ. Retain stems as per the leave tree section.
71G-1-S4	30	1/2	-	This stream and the majority of the RMA are outside of the West boundary. 10% basal area retention will be met.

