

BRITISH
COLUMBIA

SILVICULTURE PRESCRIPTION PLOT CARD

NUMBERS REFER TO LAND MANAGEMENT HANDBOOK 47

REF.	1. LICENCE NO.		2. LICENSEE BCTS		3. C.P. TA461		4. BLOCK K93F		5. STRATUM 1		6. PLOT NO. 1	
	7. SURVEYOR(S) (PRINT) Jasper McKenzie						YYYY - MM - DD 2022 10 03		8. LOCATION 110 299153E 5595646N			
SITE	9. ELEVATION (m) 789m		10. ASPECT E		11. SLOPE % 20%		12. BGC ZONE IDF		SUB. VAR. zh		13. MOIST. 4	
	14. NUT. C		15. SLOPE POSITION ☐ crest ☒ middle ☐ toe ☐ level ☐ upper ☐ lower ☐ depression		16. SURFACE SHAPE ☐ convex ☐ straight ☐ concave ☒ hummocky		17. SLOPE LEN. / UNIF. ☒ short ☒ broken ☐ discontinuous ☐ long ☐ uniform ☒ continuous		18. SLOPE CONT. ☒ 0 ☐ 1 ☐ 2 ☐ >2		19. GULLIES/100m ☐ 0 ☐ 1 ☐ 2 ☐ >2	
UNDERSTOREY	20. UNDERSTOREY (INDICATOR / ABUNDANT SPECIES) (Area 20 m x 20 m ² or <input type="text"/> x <input type="text"/> m)											
	LAYER	% C	SPECIES	% C	SPECIES	% C	SPECIES	% C	SPECIES	% C	SPECIES	% C
	SHRUB											
	HERB	30%	Pinegrass	2%	Arnica							
	MOSS											
	LAYER	SPECIES	% C	SPECIES	% C	SPECIES	% C	21. COARSE WOODY DEBRIS (Note type, features, size, etc. found in the plot) Scattered, heavily charred, evenly distributed, fragment. This piece is the diameter of 3m long				
	SHRUB											
	HERB											
	MOSS											
	22. COMPETING VEGETATION / NOXIOUS WEEDS											
SPECIES	Pinegrass					23. COMMENTS (Expected problem vegetation, potential encroachment from adjacent areas) Pinegrass may pose an issue for planting. Oak tracking may be required						
PRESENT HEIGHT (cm)	20cm											
EXPECTED HEIGHT (cm)	40cm											
PRESENT % COVER	30%											
EXPECTED % COVER	80%											
OVERSTOREY	24. OVERSTOREY											
	LAYER	SPECIES % (Stems/ha)	AGE	HEIGHT	DBH	STEMS/ha	25. LAYER CONDITION / % ACCEPTABLE / COMMENTS Vets are mostly wolfy and are in most cases best left as wildlife trees Mature have high salvage potential as salvages with aggressive debarking Whole stand suffered high intensity burn					
	VETS	Fj9(Py)	+ 40 over Mature	24.3m	61.8cm	200sph						
	MATURE (M) 12.5 cm +	Fj10		15.2m	17.8cm	600sph						
	POLES (P) 7.5 -12.5 cm	Fj10		9.6m	10.4cm	200sph						
	SAPLING (S) 1.3 m-7.5 cm	None Present in Block										
	REGEN. (R) < 1.3 m											
	26. SAMPLE TREE DATA (mature layer)											
	SPECIES	Fj										
	TOTAL AGE											
	HEIGHT	16m										
	dbh	17.9cm										
	CRN. CLASS	CD										
	% LIVE CR.	0%										
	10-YR. GR.											

SOILS		SOILS																											
		27. FOREST FLOOR DEPTH (cm)		28. HUMUS FORM		SOIL HORIZONS (pit depth <u>36</u> cm)																							
		$\begin{array}{c} + \quad + \quad = \\ \hline L + F + H = \text{TOTAL} \end{array}$		N/A		29. HORIZON	30. DEPTH (cm)	31. TEXTURE	32. PLASTICITY	33. C. FRAGMENTS		34. COL/MOIST																	
										%	SIZE																		
SOILS	35. ROOTING DEPTH (cm)	36. DRAINAGE	A	8cm	SiL	NP	10	G	G/m																				
	37. SEASONAL SOIL FACTORS (dates: dry, wet, frozen, snow)	Well Drained	B	36cm	L	NP	10	G	G/m																				
	No LFH burned off Dry spring at sampling																												
38. UNFAVOURABLE SUBSTRATES																													
<table border="0"> <tr> <td>Y/N</td> <td>Depth it begins</td> <td rowspan="7">SPECIFY RESTRICT LAYER TYPE (compact or dense material, bedrock, permanent, seasonal)</td> </tr> <tr> <td>SEEPAGE (MOTTLES / GLEYING) ...</td> <td>☒ cm</td> </tr> <tr> <td>CARBONATES</td> <td>☒ cm</td> </tr> <tr> <td>WATER-RESTRICT LAYER</td> <td>☒ cm</td> </tr> <tr> <td>Bt or DENSE PARENT MATERIAL</td> <td>☒ cm</td> </tr> <tr> <td>SANDS / GRAVELS</td> <td>☒ cm</td> </tr> <tr> <td>FRAGMENTAL (> 70% CF)</td> <td>☒ cm</td> </tr> <tr> <td>ROOT-RESTRICT LAYER</td> <td>☒ cm</td> <td>None observed</td> </tr> </table>												Y/N	Depth it begins	SPECIFY RESTRICT LAYER TYPE (compact or dense material, bedrock, permanent, seasonal)	SEEPAGE (MOTTLES / GLEYING) ...	☒ cm	CARBONATES	☒ cm	WATER-RESTRICT LAYER	☒ cm	Bt or DENSE PARENT MATERIAL	☒ cm	SANDS / GRAVELS	☒ cm	FRAGMENTAL (> 70% CF)	☒ cm	ROOT-RESTRICT LAYER	☒ cm	None observed
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OPTIONAL SOILS INFORMATION																													
39. LANDFORM / PARENT MATERIAL						40. SOIL CLASSIFICATION / ASSOCIATION																							
Moraine						Brunsol																							
41. SURFACE ORGANIC MATTER / SOIL CHARACTERISTICS									42. C.F. BEDROCK / LITHOLOGY																				
43. SOIL HAZARD ASSESSMENT (circle and rate)																													
COMP.	13. MOISTURE (27. FOREST FLOOR)	XERIC TO MESIC OR SUBHYGRIC & H HORIZON < 20 cm										SUBHYGRIC & H HOR. > 20 cm OR HYGRIC TO HYDRIC																	
	33. COARSE FRAGMENTS	0 - 70%										> 70%	0 - 70%	> 70%															
	31. TEXTURE (0 - 30 cm)	Clayey ¹	Si, SiL, Loam	SL, f SL ²	LS, S	all	all	all																					
RATING		VH	H	M	L	L	VH	M																					
SOIL DISPLACEMENT	11. SLOPE %	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75												
	POINTS	0	1	1	2	3	4	5	6	8	10	12	16	20	26	32													
	PLUS FOR GULLIED TERRAIN ONLY, ADD: (2 or more > 2 m deep / 100 m)		SLOPE GRADIENT										16. PLUS, FOR HUMMOCKY TERRAIN, ADD: (broken terrain, small steep knolls)																
	POINTS		N/A	< 30% slope	30 - 45%	> 45%	N/A																						
			0	2	4	6	0	2																					
SOIL DISPLACEMENT	38. UNFAVOURABLE SUBSTRATE depth (cm)		< 30		30 - 60		61 - 90		> 90																				
	Hardpan; dense parent material; clean S / gravel; fragmental; carbonates; seepage; bedrock points		12		8		4		0																				
	Point Total RATING		< 7 points LOW		7 - 14 points MODERATE		15 - 24 points HIGH		> 24 points VERY HIGH																				
	ORGANIC SOIL COMPOSED OF ≥ 40 cm WET ORGANIC MATERIAL										HIGH																		
	FOREST FLOORS OVER BEDROCK OR SKELETAL MATERIALS (e.g., Folisols)										VERY HIGH																		
SOIL EROSION	PRECIPITATION FACTOR	points	Low	2	Moderate	4	High	6	Very high	8																			
	11. SLOPE %	points	0 - 10	1	11 - 20	3	21 - 50	6	> 50	9																			
	17. LENGTH / UNIFORMITY	points	short broken	1	short uniform	2	long broken	3	long uniform	4																			
	38. WATER-RESTRICTING LAYER	points	> 90 cm	1	61 - 90 cm	2	30 - 60 cm	3	< 30 cm	4																			
	31. TEXTURE (0 - 15 cm)	points	SC, C, SiC	1	SiCL, CL, SCL	2	SL, L	4	Si, SiL, fSL, LS, S	8																			
	33. % COARSE FRAG. (0 - 15 cm)	points	> 60	1	31 - 60	2	16 - 30	3	< 16	4																			
	31. SUBSOIL TEXTURE (16-60 cm)	points	S, LS, SL, fSL	1	L, SiL, Si	2	CL, SCL, SiCL	3	C, SC, SiC	4																			
Point Total RATING		< 16 points LOW		16 - 22 points MODERATE		23 - 31 points HIGH		> 31 points VERY HIGH																					

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- 3 Optional hazards, use recommended as per discussion in LMH 47.
- 4 Use the first mineral soil horizon ≥ 15 cm, otherwise use the thickest layer in the top 30 cm of mineral soil.

46. INDICATORS OF POTENTIAL SLOPE INSTABILITY (check applicable boxes)

1. LANDSLIDE FEATURES

- ☐ recent landslide scars
- ☐ revegetated landslide scars

2. VEGETATION FEATURES

- ☐ partially revegetated strips (may also be snow avalanche tracks)
- ☐ jack-strawed trees (trees tilted in various directions), split trees
- ☐ linear strips of even-aged timber
- ☐ pistol butt (recurved) trees (may also indicate snow creep)
- ☐ wet-site vegetation on slopes > 50%

3. SLOPE FEATURES

- ☐ landslide debris piled on lower slope
- ☐ tension fractures
- ☐ numerous springs at toe of slope, sag ponds
- ☐ curved depressions
- ☐ shallow, linear depressions
- ☐ step-like benches or small scarps
- ☐ displaced stream channels
- ☐ ridged marine deposits

4. SOIL FEATURES

- ☐ soil and rocks piled on the upslope side of trees
- ☐ mixed or buried soil profiles
- ☐ poorly developed soils relative to other comparable slopes
- ☐ shallow, wet, organic soils on slopes > 40%
- ☐ poorly drained medium- to fine-textured materials (e.g., till, lacustrine, marine and some glaciofluvial deposits) > 3 m deep

5. BEDROCK / ROCKSLIDE FEATURES

- ☐ talus or scattered boulders at base of slope
- ☐ rock faces with freshly exposed rock
- ☐ steeply dipping, bedrock discontinuities (bedding planes, joints or fracture surfaces, faults) that parallel the slope
- ☐ bedrock joint or fracture surface intersections that dip steeply out of the slope

6. ROAD FEATURES

- ☐ bulges in road

7. GULLY FEATURES

- ☐ poorly drained or gullied*, fine-textured materials < 3 m deep on slopes > 50%
- ☐ poorly drained or gullied*, coarse-textured materials on slopes > 50%
- ☐ recently scoured gullies*
- ☐ vegetation in gully much younger than the adjacent forest
- ☐ exposed soil on gully sides*
- ☐ debris piles at the mouths of gullies*
- ☐ poorly developed soils on gully sides relative to adjacent slopes (repeated shallow failures continually remove the developed soil profile)

*Apply the *Gully Assessment Procedure Guidebook (1995)* to any gullied areas on the Coast.

CONSULT A SLOPE STABILITY SPECIALIST IF ANY INDICATORS ARE FOUND.

IF CONFIRMED, THEN A TERRAIN STABILITY FIELD ASSESSMENT IS REQUIRED.

8. OTHER INDICATORS

- ☐ piping
- ☐ extensive seeps / springs
- ☐ faulted / fractured rock formations
- ☐ extensive cutbank failures (Interior)
- ☐ tension cracks in middle of road

47. COMMENTS / DIAGRAM

INDICATE SECTION AND ITEM NO. TO WHICH COMMENTS REFER, OR USE FOR SLOPE OR SOIL PROFILE DIAGRAM, ETC.

