



ROAD INSTRUCTIONS – OPENINGS #B11 and B12

ACCESS ROAD: TF31E

CUTTING PERMIT: NO. 5

TIMBERMARK: K2D 0R1

RAINFALL SHUTDOWN CRITERIA

Cutblock B11 and B12 are within Rainfall Shutdown Area "5"

Shutdown Criteria: Activities must shut down if: The total rainfall reaches 36 mm in 24 hours. Onsite rain gages should be used and monitored daily.

Start-Up Criteria: Activities may start-up when: The total rainfall is equal to or less than 30 mm in 24 hours. Refer to the Return to Work Guide in the tender document for more information.

Adequate recovery time should be given before building operations commence after a shutdown.

ROAD NAME	START STATION	END STATION	TYPE OF WORK/COMMENTS
B11-S1	0+000	0+498	Reactivation Case 1 (widening up to 2m with no rock, removal of vegetation and sloughing material from the road prism, re-ditching and cleaning of culverts).
B11-S1	0+498	0+540	Reactivation Case 2 (widening up to 2m with drilling or blasting required, removal of vegetation and sloughing material from the road prism, re-ditching and cleaning of culverts).
B11-S1	0+540	1+051	Reactivation Case 1 (widening up to 2m with no rock, removal of vegetation and sloughing material from the road prism, re-ditching and cleaning of culverts).
B11-S1	1+051	1+076	Reactivation Case 2 (widening up to 2m with drilling or blasting required, removal of vegetation and sloughing material from the road prism, re-ditching and cleaning of culverts).
B11-S1	1+076	1+269	Reactivation Case 1 (widening up to 2m with no rock, removal of vegetation and sloughing material from the road prism, re-ditching and cleaning of culverts).
B11-S1	1+269	1+724	New Construction
B11-S2	0+000	0+614	New Construction

ROAD NAME	STATION	RIPARIAN ID	RIPARIAN CLASS	DEBRIS TRANSPORT POTENTIAL	CULVERT / BRIDGE SIZE	DESIGNED PEAK FLOW	Special instructions for operations within or adjacent to RMA
B11-S1	0+121	-	-	-	600	X-Drain	OPENINGS B11 AND B12 LIE WITHIN THE SPROAT LAKE COMMUNITY WATERSHED. ALL STREAM CROSSINGS ARE TO BE ARMORED WITH COARSE ROCK MATERIAL TO MINIMIZE THE TRANSPORT OF FINES DOWN STREAM.
B11-S1	0+312	-	-	-	600	X-Drain	
B11-S1	0+365	2	S4	Low	800	Q-100	
B11-S1	0+449	-	-	-	600	X-Drain	
B11-S1	0+624	-	-	-	600	X-Drain	
B11-S1	0+759	-	-	-	600	X-Drain	
B11-S1	0+931	3	S4	Low	900	Q-100	
B11-S1	1+137	3	S4	Low	900	Q-100	
B11-S1	1+212	-	-	-	600	X-Drain	
B11-S1	1+633	-	-	-	600	X-Drain	
B11-S2	0+100	-	-	-	600	X-Drain	
B11-S2	0+396	-	-	-	600	X-Drain	
B11-S2	0+512	2	S4	Low	600	X-Drain	
B11-S2	0+577	-	-	-	600	X-Drain	

GENERAL INSTRUCTIONS

All employees, supervisors and contractors associated with these Harvest Instructions shall be fully advised of their contents and requirements.

All litter including cable, oil buckets, grease tubes, newspapers, and lunch garbage is to be placed in appropriate garbage containers and removed from the site for proper disposal concurrent with all operations.

ADDITIONAL INSTRUCTIONS

- [1] R/W clearing widths to be 25 meters unless a larger width is required for safety or otherwise prescribed.
 - [2] Prior approval must be obtained from AVCF if falling beyond right-of-way clearing is required for spoil sites or quarries.
 - [3] Proposed cross-drain culvert locations are approximate. Site specific installation to within ±25m is acceptable. Installation beyond this distance constitutes a 'change of plan' and requires prior approval from AVCF.
 - [4] Equipment must not be fuelled or serviced within the riparian management area (RMA) of a stream, lake or wetland. Do not park any equipment within an RMA overnight.
 - [5] **Ensure that licensed water works are notified of road activities 48 hours prior to activity.**
- RMA distances:** STREAMS: S1 - 70 meters, S2 – 50 meters, S3 – 40 meters, S4 – 30 meters, S5 – 30 meters, S6 – 20 meters, LAKES: L1 – 10 meters, L3 – 30 meters, WETLANDS: W1, W5 – 50meters, W3 – 30 meters.
- [6] Avoid quarry locations within the RMA of any stream; where avoidance is not practical, quarries may be located within the RMA of a S6 stream if no impacts (i.e. increased sedimentation) will occur to the stream. All other streams (i.e. S1 to S5) require prior approval from AVCF before a quarry may be located within its RMA. Do not deck or process wood within RMA's.
 - [7] **Cultural Resources:** If an unidentified cultural heritage resource is encountered within the cutblock during any harvesting phase, operations will cease in the immediate vicinity of the feature and AVCF shall be notified immediately.
 - [8] **Wildlife Resources:** In the event any unidentified bear dens or raptor nest trees are encountered during falling, but before the tree has been cut, the faller will go elsewhere for the day and report this potential wildlife tree to a AVCF Supervisor. Fallers are not to return to the vicinity of the wildlife tree until notification from AVCF has been given. If the discovery of a bear den or potential nest tree occurs while the tree is being felled, the decision to proceed is at the faller's discretion in regards to safety and Worksafe BC requirements. If it is unsafe to leave the tree partially cut, the faller will complete felling the tree and report the incident to AVCF.
 - [9] **Fish Streams:** Due to the close proximity of fish streams, ensure a high level of diligence is maintained regarding stream bank protection, in-stream woody debris disturbance and protection of stream banks at designated crossings.
 - [10] **Invasive Plants:** Broom occurs along sections of the highway on route to the block. Follow FSP measures for invasive plants. Cut and remove plants in association with road reactivation, clean machinery as required. Monitor and treat broom and other invasive species during early establishment. Grass seed exposed soil on or adjacent to roads, trails, and landing sites as soon as possible following harvest.

FALLING of SNAGS and DANGER TREES

In accordance with the Cutting Permit Authority and WorkSafe BC Regulations, all snags and danger trees that endanger workers within a distance of 50m outside the cutblock boundaries, or within one and a half tree lengths, (whichever is greater), are approved for falling under these harvest instructions. All danger trees and snags outside the cutblock boundaries that are required to be felled must be recorded on a map and provided to AVCF once falling has been completed. AVCF will be notified immediately if danger trees and/or snags are identified in groups and removal will result in the cutblock boundary being substantially impacted. Felled snags and danger trees up to 50m outside of the falling boundary meeting utilization specifications will be recovered.

EXCEPTION- Wildlife Tree Patch (WTP) areas - Snags or danger trees can be felled within a WTP for safety reasons although only the portion of the felled snags or danger trees that fall outside the WTP can be recovered.

CUTBLOCK BOUNDARY TREATMENTS

All marked boundary trees except snags and danger trees must remain standing during and after the completion of harvesting. Trees located along and adjacent to the cutblock edges (i.e. within the harvest boundary) that must be felled outside the harvest area must be recovered unless a physical, safety or environmental issue exists (e.g. deep gullies, steep breaks, fish creek, etc.). Trees that cannot be recovered may be left standing, if they are safe to leave, as wildlife trees. These trees must be recorded on a map and provided to AVCF once falling is complete; If unsure how to proceed, contact AVCF.

SAFETY

Road and in-block safety hazards associated with B11 and B12 have been identified on the harvest and road instruction map. In the event additional in-block safety hazards (temporary or permanent) are encountered or develop during road construction or harvesting phases, a plan must be developed to address the hazard. Any identified permanent hazards must be reported back to AVCF (using Hazard/Issue Report Form).

STEEP GRADES

Road segments with gradients > 18% have been identified on the Harvest and Road instruction Plan Map. Prior to commencing log hauling operations the contractor must perform a risk assessment of the current conditions and adjust hauling activities to suit the traction conditions. Hauling for B11 and B12 will not be permitted when ice and or snow is on the logging roads leading to or in the given setting (very low traction level). This has been determined using FERRIC step grade decent guidelines. The Ministry of Transportation guidelines are to be followed once on the highway.

