Deflection Line Harvest Plan Map

BCTS BC Timber Sales

TSL **TA1349**	Block ID **RLA0W**
Business Area Kamloops	UBI BEA0W
Operating Area Vuich Creek (ME)	Location Sutter Creek
Management Unit Merritt	FIZ D
Gross Block Area (ha) 28.30	Geographic Center Latitude 49 26 11 Longitude -121 01 34

Ribbon Standards:

Treatment / Use	Ribbon Description / Colour	Guidelines
Final Road Location	Pink with black text center line' ribbon	On centerline (c/l)
Landing	3 Pink and Blue ribbon	On road c/l or off c/l to indicate ldg center
Culvert (at rd traverse station)	Red ribbon	Mark stream class, culvert width & length if known
Skid Trail / Skid Crossing	Red and Yellow ribbon	Use in constrained locations only
Block Boundary	Orange with black text 'Tolko Block Boundary' ribbon, Blue paint	Painting may be optional
Falling Corner	Orange with black text 'Tolko Block Boundary' ribbon, Blue paint	Mark block and FC #
Wildlife Tree Patch	Orange with black text 'Tolko Block Boundary' ribbon, Blue paint	Painting may be optional
Machine Free Zone Stream reach break	Pink ribbon with **Black stripes**	As required for classified streams
Riparian Management Zone	Pink with black text Riparian Management Zone'	As required by Site Plan

Unit	Area	Season	Method	Strategy
1	17.06	Any Season	Ground	Standard Practice
RMZ1	3.09	Any Season	Ground	Riparian Management Zone
2	1.34	Any Season	Cable	Standard Practice
RMZ2	.30	Any Season	Cable	Riparian Management Zone
MFZ1	1.61	Any Season	Ground	Machine Free Zone
MFZ2	.17	Any Season	Cable	Machine Free Zone

Harvest Unit ID
- <all other values>
- 1: A
- 2: B

Harvest Method
- Cable
- Ground

Non Productive SU
- Non-Prod Permanent Access
- WTP

BCTS Cruise Features
- Dropped Plot
- Count Plot
- Measure Plot
- PoT / PoC
- Photo Tie point
- Slope Arrow

- BCTS All Blocks
- Block of Interest
- BCTS RG Block
- BCTS FG Block

BCTS GPS Stations
- GPS Station
- Block Bdy Hub
- Falling Corners
- Reference Trees

BCTS Layout Points
- Growth Yield Plot
- Landing Cable
- Landing Ground
- R/W Landing
- Slump/Slide Area
- Stub Tree
- Tower Settings
- Fish Barrier
- Reach Breaks
- Road Barrier
- Rock Outcrops
- Gate
- Cattle Guard
- Pipeline Crossing
- Prop Skid Bridge
- Prop Skid Crossing
- Major Culvert
- MInor Culvert
- Drain Culvert
- Bridge
- Cave/ Den
- Rec / Camp Site
- CMT
- Wildlife Tree
- Wildlife Feature
- Mountain Beaver

BCTS Line Features
- Cat Trail
- Back Spar Trail
- Bladed Skid Trail
- Forwarding Trail
- Deflection Line
- PP Temp Skid Trail
- Non-Bladed Skid Trail
- Skid Trail
- Other Trail
- Pipe Line
- Seismic Line
- Cultural/Heritage
- Rec Trail
- Fence Line
- Cliff
- Draw
- Embankment
- Gully
- Ridge
- Seepage
- Slide
- Slope Break
- Rest. Side Decking
- Stubbed Boundary
- Road Permit
- Skid/Yarding Direction
- Wildlife Trail

TRIM Features
- Forest Inventory Outline
- River/Stream-Def
- River/Stream-Indef
- Contour - Index
- Contour - Intermediate
- Road Permit
- Forest Service Road
- Highway/Main/Paved Road
- Gravel/Resource Road
- Trail
- Snow Shed (Railway)
- Tunnel
- Bridge
- Airstrip
- Rail Line
- OGMA
- Pipeline / Wellsite

- Area of Concern
- Slope Area (>35%)
- SAR Cliff
- SAR Forested
- SAR Rare Ecosystems
- Special Mgmt Area
- Special Forest Mgmt Area
- Biodiversity, Mining and Tourism Areaa
- Private Land
- Conservancy Areas
- Protected Areas /Parks
- LMZ
- Lake/Watercourse
- Marsh
- Swamp

BCTS Roads - Road State
- Deactivated Road
- Existing Road
- Proposed Road
- Unknown/NULL

- Cross Ditch
- Arch Pipe
- Arch Pipe, Proposed
- Culvert
- Culvert, Proposed
- Bridge, Proposed
- Bridge, Condemned
- Removed Structures

Riparian Features
- MFZ / MSZ
- RMZ
- RRZ

BCTS Streams Class
- Unknown
- INT;NCD
- S1;S2;S3;S4
- S5;S6

0 50 100 150 200 250 Meters

1:5,000

Date 2021-02-02 **User** BOREAD

Template Name HarvestPlanMap_11x17L

Coordinate System NAD 1983 BC Environment Albers

WORKER ALERTS

Safety Concerns: Slopes > 35% do exist within the block. Written safe steep slopes procedures are required and licensees are to adhere to section 26.16 or the OHS regulation. This block is located within a significant recreation area for seasonal activities such as but not limited to snowmobiling, camping, hunting or fishing etc… Ensure all forestry operations are conducted in a manner to ensure public safety. Ensure proper warning signs are placed in the appropriate places. This block is also adjacent to active recreation sites/polygons and there may be nails and or other materials embedded in trees within the vicinity of the recreation site.

Leave Tree Specifications: Target Leave Trees:

Reserve Fdi, Pw, and Cw (95% greater than or equal to 17.5cm) where operationally feasible to enhance structural diversity for wildlife habitat values, and as a supplemental source of seed and shelter for regeneration. No Fd, Pw or Cw was observed on site but may be present at low densities.
Reserve Live Pa (100% all diameter classes). No Pa was observed on site but may be present at low densities.
Although not identified in the block, reserve 95% of Act, At and Ep where operationally feasible. Any stems required to be felled for safety or access will be left on site as coarse woody debris.
Within the RMZ of RLA0W-(1 to 3)-S6b:
Reserve Live Fd,Cw,Hw and Pw (95% greater than or equal to 17.5 cm), if encountered.
Reserve Live Sx (95% greater than equal to 17.5cm and less than equal to 32.4cm)
Reserve Live Bl (95% greater than equal to 17.5cm and less than equal to 37.4cm)
The estimated leave tree ranges are for operational guidance and consider field observations, statistical error in the cruise data, and the amount of the NAR required to be clear-cut for required access (skidding, roads, and processing), silviculture and safety. Final in-block retention is intended to meet the percent retention stated by species. Actual leave trees may vary upward or downward from estimated ranges.
The distribution of the leave trees is not expected to be even throughout the block as there are >1ha areas that may not have any of these species.
Exceptional circumstances: With the exception of Whitebark Pine (Pa) target leave trees can be felled and left on site when necessary for incidental falling, blowdown removal, or safety/operational reasons.
Create 1-2 stubs per hectare across the block primarily within the RMA of streams and within 5m of NCDs, where operationally feasible. Other preferred locations are adjacent to retained immature clumps to provide protection during harvesting. Preference should be given to dead or damaged stems of larger diameter. These stubs may provide a source of habitat for cavity nesting species or perches for raptors.
Where operationally feasible, leave understorey trees (poles having >50% live crown, saplings, and regeneration). The preference is for understorey leave trees to be free from insects, disease and defects and be left in groups of 3 or more where possible.

Access Instructions

From Merritt, drive south along HWY 5 (Coquihalla) for 62.8 km and take Coquihalla lake road exit towards the Britton Creek rest area. Continue past the rest area for 250 m and take the first left onto Tulameen FSR. Follow Tulameen FSR for 34.7 km and turn right on NCRT96. Continue along NCRT96 for 530m and the block will be located 50m to the West.

Riparian Features:

S2's
RLA0W-1-S2 (Sutter Cr): The Riparian Reserve Zone (RRZ) for this stream is beyond the block boundaries. The majority of the RMZ for this stream exists outside of the harvest area and has been retained in a WTRA. Portions of the RMZ that overlaps the harvest area will be managed per SU-1 or SU-2. Bladed skid trails should be avoided in RMZ.
S3's
RLA0W-1-S3: The RRZ for this stream is outside of the block boundaries. The majority of the RMZ for this stream exists outside of the harvest area. RMZ that overlaps the harvest area will be managed per SU-1. Bladed skid trails should be avoided in RMZ.
S4's
RLA0W-1-S4 through RLA0W-3-S4: The streams are located a minimum of 10 meters outside of the block boundary. Areas where the RMZ overlaps the harvest area are to be managed per SU1 and SU2.
S6B's
RLA0W-1-S6B through RLA0W-5-S6B: A machine free zone (MFZ) has been ribboned adjacent to all S6B's within the harvest area. The RMZ for RLA0W-(4 and 5)-S6Bs have Not been marked in the field as greater than 20% basal area associated with these streams will be retained outside the harvest area.
The RMZs for RLA0W-(1,2, and 3)-S6Bs have been established and marked in the field. In order to meet the 20% basal area retention target for these S6B's, refer to Leave Tree Characteristics for retention targets. Refer to the attached map for required designated crossings which may be moved for operational feasibility.
RLA0W-1-S6B:
Cross stream yarding is planned across on the stream. Hand falling is required on the western side of the stream. To maintain stream bank stability, timber within the RMZ should be felled over the stream during bunching/handfalling operations such that lower slopes can be yarded over the felled timber to protect stream banks. Operations should occur during late summer or winter when the stream is at low water levels or covered in snow. The stream will be cleaned post-harvest.
RLA0W-3-S6B:
A narrow band of timber exists between the stream and boundary where hand falling is required to fall the trees into lead for skidding.
NCD's
RLA0W-1-NCD through RLA0W-8-NCD: The NCD's identified on the site plan map are protected with machine free zone (MFZ). Where practicable, fall and skid away from NCD. If it is necessary to skid across an NCD, minimize the number of crossings. Ensure natural drainage is maintained for all NCD. Designated crossings are shown on the attached maps but are not flagged in the field and may be moved as required for operability and safety.