

WORKER ALERTS

All live, green trees (all species), and a small component of large diameter dead Fd is to be retained; 5% removal has been allotted for the live, green retention to allow for incidental removal due to operation or safety constraints. The stems per hectare (sph) listed below are an approximation of the leave trees post-harvest based on the cruise compilation, using an estimated percentage of what may be actually available for retention at time of harvest, actual numbers may vary.

- Douglas-fir (dead) – Retain 90% of all dead stems >/=67.5cm dbh; which equates to 2 sph.
- Douglas-fir (live) – Retain 95% of all live merch stems; which equates to 7 sph.
- Spruce – Retain 95% of all live merch stems; which equates to 1 sph.
- Lodgepole pine – Retain 95% of all live merch stems; none were tallied.
- Aspen – Retain 95% of all live merch stems; none were tallied.

If encountered, retain any live unburned conifer regen, saplings and poles (with green, healthy-looking crowns) where they occur in patches.

STUBBING

- Retain 3 to 4 stub groups per hectare (5 or more stubs per group, 3-5m high). These stub groups should be created near and/or connecting riparian areas, green leave trees and/or regen, adjacent green stands/ plantations, large CWD logs left after burn, large rocks and/or outcrops, and knolls. Target stems that have visible external defects such as broken tops, cavities, checks or cracks.

GENERAL FURBEARER MANAGEMENT:

The following retention is prescribed across the block to provide resting habitat, connectivity and cover.

Retain >/= 1 single hard log per hectare, >35cm in diameter and >7 m in length, elevated 25-50 cm above ground. If trees >35 cm do not occur in the harvest area, 2 or more smaller trees totalling >35 cm diameter may be placed alongside each other and elevated 25-50 cm above ground.

Create >/=1 debris pile per hectare, each being >/=3m wide by >/=5 m long and piled >/=2m high, using the largest woody debris available on site.

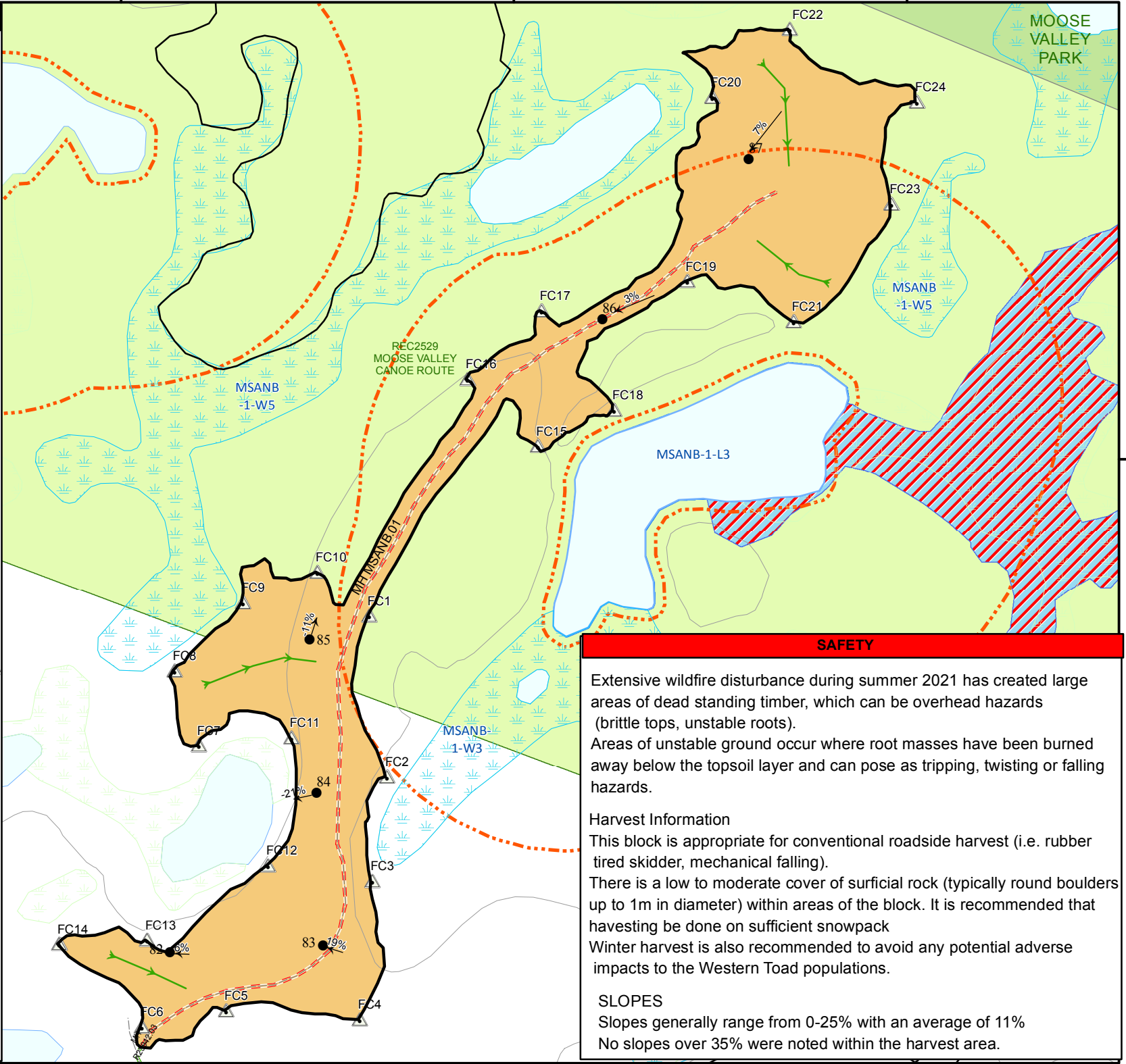
Debris piles should be located >/=20m from the timber edge, but within 200m of riparian management areas and block edges to maintain connectivity.

Pile locations should aim to maintain a 50m dash distance between cover (standing timber, WTRAs and debris piles).

Actual pile locations may vary but should adhere to the above connectivity conditions.

BCTS Ribbon Standards

BCTS Block Boundary	
BCTS Road Location	Forest Service Road
WTRA Boundary	Wildlife Tree Patch
Machine Free Zone	Machine Free Zone



RIPARIAN FEATURES

- Operational activities will be conducted to ensure that natural surface drainage patterns are maintained.
- There are two classified riparian features associated with this development.

ID	Class	RMA	Width (m)	Comments
MSANB-1-W5	RRZ	10	40	This development is surrounded by a W5 wetland complex, consisting of several W1 and W3 class wetlands (including a HVMW) all within 60m of each other. The harvest boundary has been kept >/=10m from the edge of these features
	RMZ	40		
MSANB-1-L3	RMZ	30		Located east of the development. The harvest boundary has been kept >/=20m from the edge of the lake. Any RMZ and LMZ overlap within the harvest area will be treated the same as the remainder of the HU. No additional management is required.

Access Instructions

From the junction at Exeter Station Rd and Hwy 97, travel west on Exeter Station Rd for 6.1 km (gravel surface begins at 3.8 km) to the start of the 1100 Rd (Gustafsen Lake FSR). Continue straight onto the 1100 Road and travel for approx. 25.5km and turn right (north) onto proposed road MH R23942.03. Follow this road for approx. 1.1km to access the southern boundary of MSANB.

Harvest Plan Map

TSL TA2093	Block ID MSANB
Business Area Kamloops	UBI BEANB
Operating Area Moose Valley (MH)	Location Flat Lake Fire - Gustafsen/Dog Creek FSR 26-27 km
Management Unit 100 Mile House	FIZ D
Gross Block Area (ha) 12.84	Geographic Center Latitude Longitude 51° 38' 19" -121° 39' 23"

Unit	Area	Season	Method	Strategy
1	12.84	Any Season	Ground	Standard Practice

Harvest Unit ID
1: A

Harvest Method
Ground

Non Productive SU
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
Fireguard

BCTS GPS Stations
GPS Station
Block Bdy Hub
Falling Corners
Reference Trees
BCTS Layout Points
Woody Debris
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
Snow Fill
Bridge
Cave/ Den
Mineral Lick
Nest
Wildlife Tree
Wildlife Feature
Access Control

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
Fireguard

BCTS Layout Polygons
Existing Permanent Landing
Existing Temporary Landing
Proposed Permanent Landing
Proposed Temporary Landing

TRIM Features
Contour - Index
Road Permit
Contour - Intermediate
Forest Service Road
Highway/Main/Paved Road
Gravel/Resource Road
Trail
Bridge
Rail Line
Pipeline / Wellsite

Visuals Mgmt Class
Partial Retention
DMH -Critical Fish Habitat Cariboo (BCGW)

BCTS Cruise Features
Dropped Plot
Count Plot
Measure Plot
PoT / PoC
Photo Tie point
Slope Arrow
Area of Concern
Slope Area (>35%)
SAR Cliff
SAR Forested
SAR Rare Ecosystems
Special Mgmt Area
Special Forest Mgmt Area
Biodiversity, Mining and Tourism Area
Private Land
Conservancy Areas
Protected Areas /Parks
Tailing Pond
Lake/Watercourse
Marsh
Swamp
OGMA - Legal
High Value Wetlands for Moose (CCLUP)
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
Lakeshore Mgmt Zone
WUFN

0 50 100 150 200 250

Meters

1:5,000

Date 2022-11-28

User DGANNER

Template Name HarvestPlanMap_11x17L

Coordinate System NAD 1983 BC Environment Albers