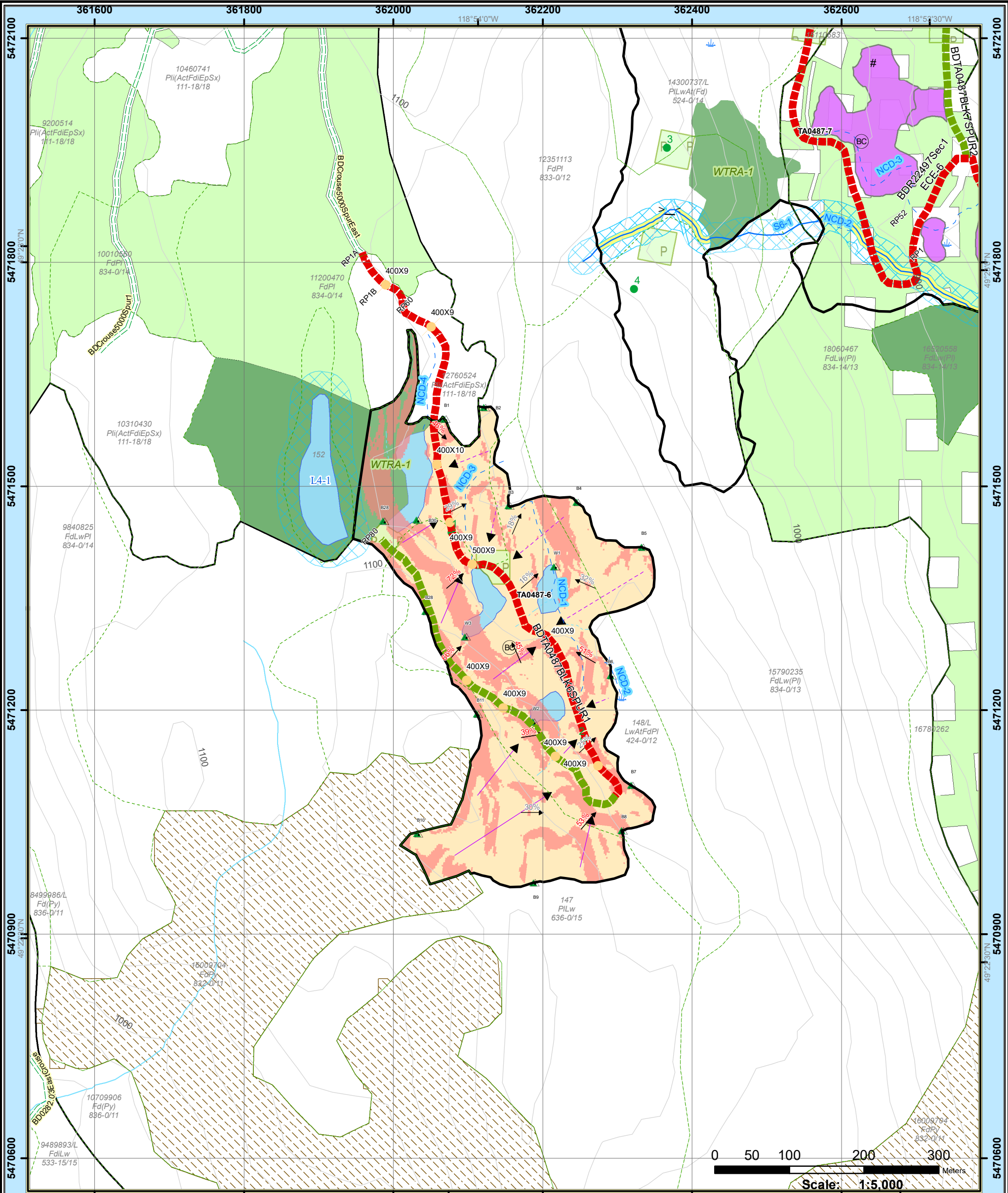




BC Timber Sales - Kootenay Business Area

HARVEST PLAN MAP

TSL: TA0487
BLOCK: 6
Generated On: 3/17/2021

Pre Number: Kettle 28
UBI: BF6CF
Generated By: LBULMER

Location: Lost Horse Crouse Cr
Mapsheet: 082E036
Latitude: 49° 22' 42.298" N
Longitude: 118° 53' 55.781" W

Maximun Elevation: 1140
Minimun Elevation: 1060

Blk_Contractor

Reserve

WTRA

Non Productive

NP Wet/ Water

Recreation Sites and Reserves

OGMA

Wetlands

Harvest Strategies

Special Management Area

Machine Free Zone

Riparian Reserve Zone

Riparian Management Zone

LiDAR > 35% Steep Slope

Proposed Temporary Landing

Existing Permanent Landing

Proposed Permanent Landing

Proposed Permanent Roads

Proposed Temporary Roads

Existing Roads

Electrical Substation

Mines; Pit; Abandoned Pit or Mine

Campsite

Golf Course

Park or Field

Cemetery

Dump/Sewage;

Fence

Transmission Lines

Pipeline

Harvest Method

GROUND

CABLE

CABLE/ GROUND

Stream

Intermittent Stream

Contours

Cruise Slope

Existing Trails

Fence Line

Gully, Draw

Seepage

Potential Skid Direction, Fav

Potential Skid Direction, Ad

Existing Skid Trails

Proposed Skid Trails

Falling Corner

Proposed Culvert

Existing Culvert

Common Junction

CRS

Designated Skid Crossing

Ecology Plot

Gravel Pit

Leave Tree

Mine Shaft

Survey Pin

Reach Break

Rock

Seepage

Slide

Cabin

Wildlife Feature

Harvest Plan Area Summary (ha)

Harvest Unit	Method	Area	Strategy
1	Ground	13.1	Standard Practice

Table 1. - Layer 1 Reserved Timber ¹											
Block	TU / HU	Selection Priority	Species	Size	Stems per Hectare			Distribution ²			
					Target	Minimum	Maximum	S	G	I	R
6	1		Fdi	>/= 47.5cm dbh	10	2	11	X	X	X	X
6	1		Cw	>/= 77.5 cm dbh	1	0	2	X	X	X	X
6	1		Deciduous	All	95%	N/A	N/A	X	X	X	X
Additional Requirements: 1. Reserve trees may be felled for construction of roads, landings, trails or for worker safety. 2. Reserve trees that need to be felled harvested for safety, access or silviculture will be left on site for CWD. 3. The distribution of the retention is not expected to be even throughout the block as there are > 1ha areas that may not have any of the species prescribed for retention. 4. Reserve trees will be focused on trees that are of poor form (wolfy), have broken tops and/or trees that would otherwise be left on site as CWD and or put in the debris pile.											
¹ Refer to <i>Appendix I</i> for <i>Table of Reserve Timber Abbreviations and Definitions</i>											
² Distribution Types: S: Single Trees, G: Groups of Trees, I: Irregularly Distributed, R: Regularly Distributed											
Note: Safety is a priority when conducting operations near reserved timber. Refer to TSL Schedule “A”, Section 2.00 regarding Dangerous Trees											

Table2. - Other Reserved Timber¹

Non-Merchantable											
Block	TU / HU	Location(s)	Species	Size	SPH or BAPH (m2)						
					Target	Minimum					
6	1	N/A	N/A	N/A	N/A	N/A					
Dead Trees to be Stubbed (where Mechanical Falling is utilized)											
Block	TU / HU	Species	Size	Stubbing Height	Stems per Hectare			Distribution ²			
					Target	Minimum	Maximum	S	G	I	R
6	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Additional Requirements:											
1.											
Coarse Woody Debris											
Block	TU / HU	Species	Size	Number per Hectare		Distribution ²					
				Target	Minimum	S	G	I	R		
6	1	All except Fd and Sx	2 m long and 7.5 cm diameter	4	4	X	X	X	X		
6	1	All except Fd and Sx	2-5m long and 20cm diameter	4	4 = 1.24m3/ha	X	X	X	X		

¹ Refer to Appendix I for Table of Reserve Timber Abbreviations and Definitions

² Distribution Types: S: Single Stems/Logs, G: Groups of Stems/Logs, I: Irregularly Distributed, R: Regularly Distributed

As per FPPR Section 68, a minimum of 4 logs per hectare, each being a minimum of 2 m in length and 7.5 cm in diameter at one end must be retained in the block. As this block is located in the IDF, a minimum of 1.24m3/ha of CWD from a minimum of 4 logs per hectare, each being a minimum of 2 meters in length, but not greater than 5m in length with a minimum of 20 cm in diameter at one end in addition to the minimum 4 logs required for FPPR Section 68. To reduce Douglas-fir and spruce bark beetle susceptibility and spread, CWD is to be selected from dead/dry material and from species other than Douglas-fir or spruce, and stumps must be cut as low to the ground as possible.

Note: Safety is a priority when conducting operations near reserved timber. Refer to TSL Schedule “A”, Section 2.00 regarding Dangerous Trees.

RIPARIAN ASSESSMENT						
Block	Riparian I.D. and Class	RMA	SU	Width (m)	BA or SPH Retained	Comments (Indicate if in a Community Watershed)
6	L4-1	30m	1	30m	N/A	The RMZ overlaps WTRA-1. This block is not located within a Community Watershed.
Management Strategies:						
There are no classified streams, wetlands or lakes within and/or adjacent to this block. There are four NCD's (NCD-1, NCD-2, NCD-3 and NCD-4) and one lake (L4-1) within and adjacent to the harvest area of this block. L4-1 and its associated RMZ are located outside the harvest area of the block.						
The following recommendations should be followed, where practicable, when harvesting around the NCD's (NCD-1, NCD-2, NCD-3 and NCD-4): - limit the number of crossings and maintain natural drainage post-harvest/site prep., - do not skid down the identified NCDs; - retain stubs along all NCDs for future reference; - fall away/yard away from the identified NCDs where safe to do so; - do not pile slash or site prep over the identified NCDs; - crossing rehabilitation is to include: scattering large CWD to minimize potential for cattle congregating and/or off-road vehicle damage.						
This block is not located within a community watershed.						

Safety Highlights:
Steep slopes (35-72% exist in places), some boulders and exposed surface rock exists throughout this block. Overhead hazards exist from snags and newly dead and dying beetle damaged lodgepole pine.

Harvest / Operational Constraints:
It is recommended that this block be scheduled for Summer/Fall/Winter Harvest on dry and/or frozen ground or on deep snowpack in order to minimize damage to the integrity of the soils in this block.
Steep slopes (35-72% exist in places), some boulders and exposed surface rock exists throughout this block. Bladed/excavated trails and/or hoe chucking may be required to harvest the steeper (> 35%) slopes.
In order to minimize the risk of Lodgepole Pine Dwarf Mistletoe infection to the new regenerating Lodgepole pine within this block post harvest, the Licensee must cut all standing Lodgepole pine trees that are over 50 cm in height, during the harvest and/or post harvest operations.

Kootenay Business Area Field Marking Standards					I certify that the work described herein fulfills standards expected of a member of the Association of British Columbia Forest Professionals, and that I did personally supervise the work.	RPF'S SIGNATURE and SEAL
	Ribbon	Paint		Ribbon	Paint	
Harvest Boundary	BCTS Block Boundary		NCD & Stream Centers	Water Course		<div>Linden Priest, RPF</div> <div>RPF PRINTED NAME</div> <div>April 29, 2021</div>
Falling Corners		FC#	Road P-Line			
WTRA Boundary	Reserve		Road Center Line	Road Centerline		
Reserve Boundary	Reserve		Landings	Landing		
Riparian Reserve Zone	Reserve		Road Right of Way	R/W Boundary		
Riparian Management Zone	Riparian Mgmt. Zone		Road RP			
Management Zone	Management Zone		Culverts	Culvert		
Treatment Unit Boundary	Treatment Unit Boundary		Designated Crossing	Crossing		
Reserve Trees			Culvert RP Outside Right of Way			
Machine Free Zone	//// Machine Free Zone ////		Tail Holds / Guyline / Intermediate Supports			
Cruising	Cruise Line	Plot Trees	Skid Trail / Back Spar Trail / Forwarding Trail	///// Trail /////		
Traverse Stations			Recce Ribbon / D-Line / Skyline Roads	////////////////		
SP Plot Location						