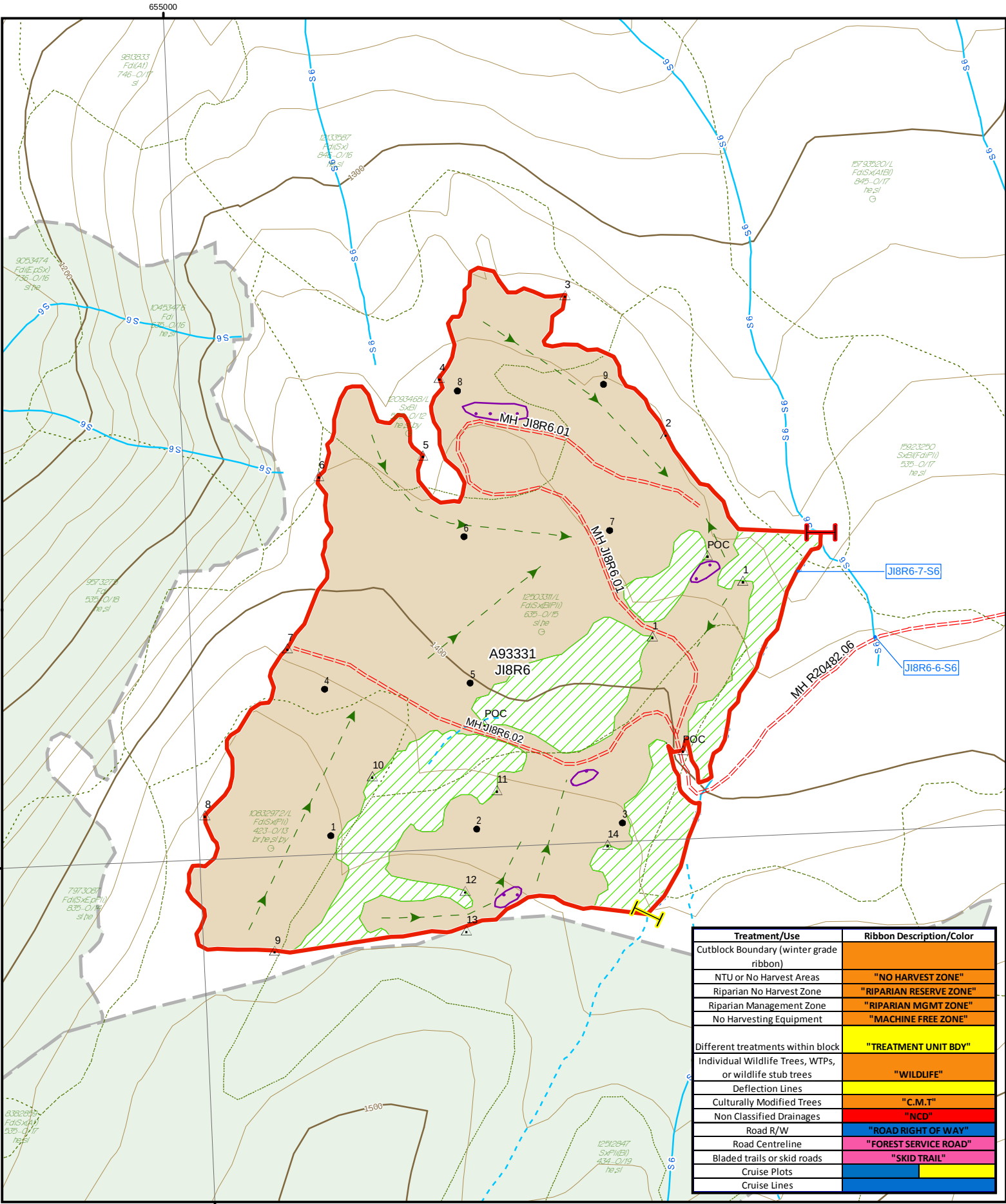




BC Timber Sales

Kamloops Business Area

Harvest Plan Map

Base Map: Harvest Plan Map -P
Created By: MORRISON, ANGELA
Date Printed: 12/18/2017

TSL : A93331

Block : JI8R6

Opening #: 92P067-0072

Forest Region: RCB

Forest District: DMH

Location: Bowers Lake

TSA: 23

PSYU: LLH

Region: 57

Comp: 14

UBI: BE8R6

Latitude: 514027

Longitude: 1204514

1:5,000

0 75 150 300 Meters

Projection: BC Environment Albers
Datum: NAD 1983

N

Block Area Summary (ha)

Harvest Unit	Harvest Area	Block Designed For	Season
A	20.54	Ground	Any Season

BCTS Roads:

=====	Existing Road
-----	Proposed Road
-----	Unknown Road

Deactivation:

X	Perm Deac - No Access
X - 4x4	Perm Deac - 4X4 Access
X - ATV	Perm Deac - ATV Access
R	Rehabbed - No Access
R - ATV	Rehabbed - ATV Access
-----	Other Road - Gravel
-----	Other Road - Paved
-----	Highway
-----	Wilderness / Rec Trail
-----	Cultural Trail
-----	Cable
>> -	Transmission Lines
● -	Pipeline
+	Rail Line
→	Yard/Skid Direction
→	Bladed Skid Trail

Fence

>>>>	Gully/Draw
=====	Embankment
45%	Slope Arrow
-----	Timber Type Line
-----	20m Interval Contour
-----	100m Interval Contour
S-2	Stream with Riparian Class Label
-----	Non-Classified Drainage
I	Reach Break
I	Fish Barrier
-----	Lakeshore Mgmt Zone
-----	District Boundary
-----	Proposed CB Boundary
-----	Other BCTS CB Bndry
-----	Forest Tenure Block
-----	Riparian Mgmt Zone
-----	Riparian Rsrv Zone
-----	WTRA

No Harvest Zone

-----	Slopes Over 35%
-----	Harvested and NSR
-----	Private Land
-----	REGEN
-----	Greened Up
-----	OGMA
-----	Other Reserves
-----	Non-Productive
-----	Lake Class
-----	Wetland Class
-----	POC / POT
-----	Falling Corner
-----	Arch Pipe
-----	Bridge
-----	Skid Crossing
-----	Culvert
-----	Cattleguard

Gate

-----	Gate
-----	Transmission Tower
-----	Pipeline Crossing
-----	Pit
-----	Utility
-----	Prop. Des Crossing
-----	CMT
-----	Cabin
-----	Rock
-----	Wildlife Feature
-----	Leave Tree
-----	Mining Claim Post
-----	Count Plot
-----	Measure Plot
-----	Dropped Plot
-----	Landing - Proposed
-----	Landing - Temporary
-----	Landing - Existing

HARVEST PLAN

LICENCE	BLOCK	LOCATION
A93331	J18R6	Bowers Lake

SAFETY

This block has slopes that range from 0 to 40% and average 20%. All pitches over 35% that were noted during the field work are identified on the map but other short pitches over 35% are expected to exist.

ARCHAEOLOGICAL/CULTURALHERITAGE

No cultural heritage features are known to exist within this block.

LEAVE TREE & BIODIVERSITY

1. Retain all Douglas fir greater than 65cm DBH and less than 20cm DBH as well as all deciduous stems where they exist outside the roadside work area and where operationally safe to do so. A maximum of 10% of these stems may be harvested for safety or operational reasons.
2. Retention of understory is required within this block. The understory in the block is light to moderate with variable distribution ranging from 0-1800 (avg. approx. 800) stems per hectare and is composed primarily of balsam with a small amount of spruce and Douglas fir. The slopes within the block range from 0 to 40% with an average of 20%. Retain the understory greater than 1.3m in minimum 5m x 5m patches where safely possible. Target 5-10 patches per ha. Preferred species of retention in order are Fd, Sx and Bl. Leave understory patches associated with other retention features such as stubs, machine free zones, leave trees or retention areas. Retention of understory is not expected within roadside processing areas.
3. Stub a minimum of 5 to 8 larger diameter snags or deciduous stems per hectare at 3-5 meters in height. Target stems that have visible external defects such as broken tops, large dead limbs, fungal conks, cracks or scars. Due to slope and safety considerations, stub trees in groups of 4-5. Stub all boundary trees at 3-5m in height.
4. Retain large blowdown logs on site that do not meet the merchantability criteria. Following harvesting there must be a minimum of 4 logs per hectare on the site, each being a minimum of 2m in length and 7.5cm in diameter.

WILDLIFE & ENDANGERED SPECIES

There are no site specific wildlife features that will impact the method or timing of harvest operations.

SOILS /TERRAIN/SLOPES

This is a tough logging block.

The block is located within the SBSmc1 BEC zone and has loamy soils with low to moderate levels of coarse fragments. The terrain is rolling with longer slopes on a north aspect. There is some hummocky ground with small bedrock outcrops scattered throughout the eastern and northern ends of the block. Harvesting must occur in a manner that dispersed soil disturbance does not exceed 10%.

Some adverse skidding exists in the north west corner of the block and in the north end of the block. These skids range from 10-15% adverse. The southern road has consistent 20% side slopes. Decking on the northern spur road will be limited to a few locations due to terrain.

RIPARIAN FEATURES

There is 1 S6 stream associated with this block. Harvesting will not occur within the RMA of the stream.

FOREST HEALTH

All pine regeneration > 50 cm will be slashed to reduce mistletoe on site. There is very little pine understory in the block.

RANGE

There are no range features impacted by this block.

RECREATION

There are no recreation features impacted by this block.

ROAD DEACTIVATION/REHABILITATION

Refer to site plan map for road deactivation/rehabilitation information. The roads within this block are a combination of permanent and temporary access structures. The roads that are permanent access structures must be deactivated following harvesting. Any temporary roads or bladed trails must be rehabilitated following harvest in a manner sufficient to allow the establishment of a stand that will achieve the approved stocking standards for the opening. Bladed trails may be necessary to facilitate the harvesting of this block.

OTHER

Spur road JI8R6.01: This road crosses a flat section of bedrock between road station R4 and R5. Material will need to be borrowed or hauled to the site to build this section of road.

The above material constitutes a summary of the Site Plan and Harvest Plan, refer to full documents for details.