BCTS
BC Timber Sales

# SP/HP MAP - AMENDMENT #1

BCTS — TSL A95528
(LICENCEE & #)

BLOCK: 3 PRE: EK G34 1303
UBI: BF5LN
LOCATION: ROCKY CREEK

Map Reference: 082G.034
Air Photos:
Forest Region: Southern Interior
District: Rocky Mountain
TSA: Cranbrook

Mag. 15.4° E of T.N.
Date: Sep 01, 2021
Land District: Kootenay
Elevation range: 775 - 880m
Scale: 1:5,000
Drawn By: D.Michel

UTM Coordinate:

| Zone | Easting | Northing |
|---|---|---|
| 11 | 617815 | 5466405 |
| Lat. | 49° 19' 59" N | Long. 115° 22' 29" W |

## SP/HP Legend

- Subject Block
- Right of Way
- Riparian Reserve Zone
- Slope Area (>35%)

**Management Zones**
- MFZ
- RMZ
- SMZ
- WMZ

**Harvest Method**
- Cable
- Ground

**Standard Unit**
- 1
- 2
- Non Productive
- PAS
- Reserve - Other
- WTP
- WTRA

- P / E Permanent Landing; Proposed/Existing
- Culvert; Existing/Proposed
- Block GPS Station
- Road GPS Station
- BC Block Center
- Major Culvert
- HVS (W) Wildlife Feature -High Value Snag
- Road Permit
- Forest Service Road
- Existing Road
- Proposed Road
- Unknown Road
- Deactivated Road
- Skid Direction
- Yarding Direction

**Adjacent Blocks**
**(Planning Status, Block Status)**
- PP and (Info or 196)
- PP and PROP
- PP and OPC
- WIP and (Info or 196)
- WIP and PROP
- WIP and OPC
- ADV
- HB
- LC
- RG
- GU
- FG
- Deferred

- Slide
- Slope Break
- Gully, Draw
- Fence Line
- Stream - Unclassified
- Stream classified
- NCD/NVC
- Waterbody
- Wetland
- BEC Zone
- Inoperable
- Recreation Area
- WMA
- VRI Polygon
- Indian Reserve
- Woodlots
- National Park
- Provincial Park
- Protected Area
- Ecological Reserve
- Intermediate Contours
- Index Contours
- Fence
- Transmission Lines
- Pipeline
- Existing Trails
- Pipe Line
- Paved Road, Divided
- Gravel Road

0 25 50 100 150 200 250 Meters

VAST RESOURCE SOLUTIONS

CR9921.06 Wardner; ECE#1; Upgrade; 4219m
CRR23576Sec2; New Short Term; 2020m
CRR23576Sec3; New Short Term; 683m
Road Permit
Forest Service Road

617500 618000 618500
5467000 5466500 5466000

9026923 LwFdi 734-17/0 sl $L85
20226687 sl
17876269
R15809 21
2996880 LwFdi(Pli) 646-19/0
6246714 Fdi(Lw) 834-15/0 sl
8666734 Lw(Fdi) 746-18/0
A95528 3 G34-1303
IDFdm2
WTRA1
WTRA2
WTRA3
SP1
SP2
BC
P
889
761
1033
9921 02
9921 6
6246458 FdiLw 523-13/0 hg,sl
3736351 FdiLw(Pli) 534-17/0 sl $L78
8406341 Lw(FdiPli) 745-17/0
14196247 FdiLw(PliPy) 535-18/0 sl $L77
13406126 FdiLw(Pli) 635-16/0 sl
10986217 LwFdi(Pli) 636-17/0
9676094 LwFdi(Sx) 644-20/0 sl
15316058 FdiLw(Pli) 635-16/0 sl
15876136 FdiLw) 533-17/0 sl,hg $L91
NVC

| SU | Area | NAR | Silv System | Harvest Method | BEC/Site Series | Stocking Standard |
|---|---|---|---|---|---|---|
| 1 | 15.00 | 15.00 | CC/Res | SK- Ground Based | IDFdm2 101 | 1062276 |
| PAS | 1.22 | | | | | |
| WTRA | 1.31 | | | | | |
| Reserve Other | 0.00 | | | | | |
| NP | 0.00 | | | | | |
| TAUP | 17.51 | | | | | |

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| RIPARIAN ASSESSMENT | | | | | | |
|---|---|---|---|---|---|---|
| Block | Riparian I.D. and Class | RMA | SU | Width (m) | BA or SPH Retained | Comments (Indicate if in a Community Watershed) |
| 1 | | | | | | There are no streams, lakes, or wetlands associated with this block. No non-classified drainages were observed within the planned harvest area |
| Management Strategies: | | | | | | |

**Safety Highlights:**

Dead snags of various height and diameter classes occur within the block. Some have been subject to armillaria root disease and have compromised root systems. Snags may fall suddenly as result of disturbance by machinery. Many snags have been flagged for retention as they have value to wildlife. They are to be retained where deemed safe to do so.

A steep rocky slope crosses the middle of this block. For the most part it is contained within a WTP. The slope beneath the road on the northeast side of the block is very steep (70%) but short. Hand falling and hoe chucking will be necessary to harvest these areas. Care should be exercised when operating around steep rocky terrain. Steep slope hazard assessments must be completed as required by WCB before any machinery proceeds working on slopes exceeding manufacturer specified limits or limits within WCB guidelines.

FSR adjacent to Lake Koocanusa is part of the Transcanada Trail Network. Pedestrians and recreational traffic should be expected especially during summer months.

**Leave Tree Specifications:**

**Table 1 – Layer 1 Reserve Timber[1]**

| SU | Selection Priority | Species | Size | Stems per Hectare to Retain | | | Distribution[2] | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Target | Min | Max | S | G | I | R |
| 1 | 1 | Py | ≥17.5cm | All | All | All | X | X | X | |
| 1 | 2 | Lw / Fd | ≥ 40 cm dbh | 35 (Py will contribute to this target) | 25 | 40 | X | X | X | X |
| 1 | - | At/Ac/ Ep/ Py | N/A | All | All | All | X | X | X | X |
| 1 | High Value Wildlife Trees | All | All | All (Where deemed safe to do so). | All | All | X | X | X | X |

Additional Requirements/ Comments:

1. Total conifer leave-tree target is 35sph (min 25sph/ max 40sph).
2. Selection priority 1: Retain all Py ≥17.5 cm. These contribute to total conifer leave-tree target.
3. Selection priority 2: Retain Lw and/or Fd ≥40cm dbh up to the overall target density of 35 sph. These are to target the largest stems of these species available. Where available and deemed safe with consideration of WCB requirements, leave-tree selection is to favor live trees with signs of internal decay (Wildlife Tree Class #2) in effort to meet best management practices for Williamson Sapsucker. If not available, leave live healthy trees. Select Lw over Fd where available.
4. The layout crew has identified several snags that have value to wildlife. They have been flagged with triple "wildlife tree patch" ribbon in the field. These are to be retained where safe to so. **Refer to TSL Schedule "A", Section 2.00 regarding Dangerous trees.**
5. Retain all deciduous trees. Very few observed during field work.
6. BCTS reserves the right to pre-mark reserve stems as per the above leave tree specifications.
7. Due to the stand structure leave tree voids < 1ha may exist post-harvest.

*Wildlife Tree Class #2: Live/unhealthy trees with evidence of internal decay or growth deformities (including insect damage, conks, heart rot, broken tops etc); dying trees*

[1] Refer to *Appendix 1* for *Table of Reserve timber Abbreviations and Definitions*
[2] Distribution types: S: Single Tree, G: Group 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.**

**Table 2- Other Reserved Timber**

| Non Merch | | | | |
|---|---|---|---|---|
| **SU** | **Location** | **Species** | **Size** | **Stems/ha** |
| **1** | Retain all good quality advanced understory, preferably in patches or clumps throughout the harvest area.<br><br>Retain advanced regen and deciduous vegetation around retain wildlife trees where possible. | Fd, Lw, Py | <17.5 cm dbh and >1.3m height | Up to 3 clumps/ha |

| Coarse Woody Debris | | | | | | | |
|---|---|---|---|---|---|---|---|
| **SU** | **Size** | **# per Hectare** | **Distribution** | | | | |
| | | | **S** | **G** | **I** | **R** | |
| **1** | ≥ 2m in length and ≥ 7.5cm in diameter at one end | Minimum: 4 | **x** | **x** | **x** | | • This is the minimum required under the *Forest Planning and Practices Regulation* |
| **Dead Trees to be stubbed (where Mechanical Falling is utilized)** | | | | | | | |
| **1** | All | >30 cm dbh | **x** | **x** | **x** | | • 2 – 5 m stubbing Height<br>• Target 3 sph, range 0 – 5sph |

**Harvest / Operational Constraints:**

- Operate during conditions that prevent excessive soil disturbance. Log in dry or frozen conditions.
- Maintain natural drainage patterns during and at completion of harvest. Pull back and rehabilitate all temporary access structures following natural contours.
- This block is sensitive to encroachment by invasive species. Ensure that all equipment entering the site is inspected for invasive plant material and washed if material is found. Document inspections and actions taken.
- Exposed cutbanks of permanent constructed roads, new landings and deactivated/rehabbed areas are to be re-seeded with a suitable seed mix (as directed by a qualified professional otherwise Canada #1 Forage Mix or better) within 1 year of soil exposure to mitigate the spread of invasive plants and to limit soil erosion.

## Kootenay Business Area Field Marking Standards

| | Ribbon | Paint |
|---|---|---|
| Harvest Boundary | BCTS Block Boundary | |
| Falling Corners | | FC# |
| WTRA Boundary | Reserve | |
| Reserve Boundary | Reserve | |
| Riparian Reserve Zone | Reserve | |
| Riparian Management Zone | Riparian Mgmt. Zone | |
| Management Zone | Management Zone | |
| Treatment Unit Boundary | Treatment Unit Boundary | |
| Reserve Trees | | |
| Machine Free Zone | //// Machine Free Zone //// | |
| Cruising | Cruise Line | Plot Trees |
| Traverse Stations | | |
| SP Plot Location | | |

| | Ribbon | Paint |
|---|---|---|
| NCD & Stream Centers | Water Course | |
| Road P-Line | | |
| Road Center Line | Road Centerline | |
| Landings | Landing | |
| Road Right of Way | R/W Boundary | |
| Road RP | | |
| Culverts | Culvert | |
| Designated Crossing | Crossing | |
| Culvert RP Outside Right of Way | | |
| Tail Holds / Guyline / Intermediate Supports | | |
| Skid Trail / Back Spar Trail / Forwarding Trail | / / / / / / Trail / / / / / / | |
| Recce Ribbon / D-Line / Skyline Roads | / / / / / / / / / / / / / / / | |

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.

**Chris Lovesey, RPF #4803**

RPF PRINTED NAME

**September 2, 2021**

DATE SIGNED

**RPF'S SIGNATURE and SEAL**

