



TENURE IDENTIFICATION

ORIGINAL

| LICENCE # | CP | BLOCK | UBI   | OPENING<br>NUMBER | FDU | LOCATION  | LATITUDE / LONGITUDE |
|-----------|----|-------|-------|-------------------|-----|-----------|----------------------|
| TA0568    | -  | 2     | BF6GG |                   |     | Big Sheep | 49 00 27 / 118 03 11 |

AREA UNDER THE PLAN

| GROSS AREA<br>(TAUP) | PAS | NP  | WTRA / WTP | RESERVES | OTHER | NAR  |
|----------------------|-----|-----|------------|----------|-------|------|
| 16.4                 | 0.7 | 0.0 | 1.2        | 0.0      | 0.0   | 14.5 |

ADDITIONAL COMMENTS

| OTHER RESOURCE FEATURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>LRM mapping of TA0568 Block 2 shows BEC zone ICH dw 1 exists as a band in the middle of the block and in the southeastern corner of the block. The rest of the block is mapped in LRM as being within the ICH mw 5 BEC zone. Field observations during development activities have confirmed the northern half of the block, north of the WTRAs, reflects the ICH dw 1 BEC zone with a 103 site series. Whereas the southern half of the block, south of the WTRAs, reflects the ICH mw 5 BEC zone with a 101 site series.</p> <p>This block is consistent with the approved BCTS Kootenay Business Area Forest Stewardship Plan 2017-2022 and will be consistent with Operating Plan #19. If any inconsistencies do arise, this Site Plan will be amended to eliminate inconsistencies. This Site Plan is prepared for TSL TA0568 Block 2 in accordance with FRPA Sections10 (1), (2) &amp; (3).</p> |

SOIL DISTURBANCE

| SU | Max. Allowable Soil Disturbance (%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Max. Amount TAS May Exceed<br>MASD Prior To Rehab (%) | Max. Allowable Soil Disturbance<br>For Roadside Work Areas (%) | Maximum Permanent Access<br>Structures (%) |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------|
| 1  | 10.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5.0                                                   | 25.0                                                           | 7.0                                        |
| 2  | 10.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5.0                                                   |                                                                |                                            |
| SU | CRITICAL SITE CONDITIONS THAT AFFECT THE TIMING OF OPERATIONS, AND HOW THEY AFFECT THE TIMING                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                                                |                                            |
| 1  | The soils in SU1 consist of a loamy sand. The compaction hazard rating is low, soil displacement is rated as low, and soil erosion is rated as moderate. These ratings constitute a non-sensitive soil. Coarse fragments in the soil are approximately 30% consisting of gravel. Overland flow is common throughout the SU. Dry season harvest is recommended.                                                                                                                                                                          |                                                       |                                                                |                                            |
| 2  | The soils in SU2 consist of a loamy sand. The compaction hazard rating is low, soil displacement is rated as moderate, and soil erosion is rated as moderate. These ratings constitute a non-sensitive soil. Coarse fragments in the soil are approximately 55% consisting of gravel. A coarse fragmental (>70% CF) unfavourable substrate layer which is difficult to dig and consisting of large stones and cobbles exists at approximately 30cm depth. Overland flow is common throughout the SU. Dry season harvest is recommended. |                                                       |                                                                |                                            |

RESULTS AND STRATEGIES

| RESULT OR STRATEGY      |  | HOW THE STRATEGY OR RESULT APPLIES TO THE SITE or RATIONALE (IF NOT APPLIED)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biodiversity Emphasis   |  | <p>FSP Section 5.3.1.1 Biodiversity Emphasis</p> <p>This block is in the N501 (Sheep) landscape unit within a Biodiversity Emphasis Option of Low for ICHmw2 and Intermediate for ICHdw (v4 Bec zone). The block is consistent with Objective1 of the KBHLPO.</p> <p>This block is consistent with section 5.3.1.1 of the FSP.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Community Watersheds    |  | <p>FSP Section 5.4.1</p> <p>This proposed block is not located within a Community Watershed.</p> <p>The block is consistent with section 5.4.1 of the FSP.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Consumptive Use Streams |  | <p>FSP Section 5.4.1.2</p> <p>This development is not located within an identified Domestic Watershed.</p> <p>There are no consumptive use streams associated with this block. One S6 stream (S6-1) bisects the block into a northern and southern portion. The stream is discontinuous with intermittent channel beds that contain alluvial material and sections where the stream disappears beneath large rocks with a stream bed present but dry. The stream system does not have a POD on it. As such, there are no streams within or adjacent to this block that flow to a POD.</p> <p>In addition, as per Objective 6 (c) of the KBHLPO, streamside management provisions of Objective 6 do not apply as the stream is within an Enhanced Resource Development Zone - Timber area.</p> <p>This block is consistent with section 5.4.1.2 of the FSP.</p> |

|                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cultural Heritage Resources         |  | <p>FSP Section 5.6</p> <p>At the time of the submission of this SP, BCTS has referred this development in Operating Plan 19 to all potentially affected First Nations, as was determined through a search of the Consultative Area Database (CAD). The proposed development was referred May 17, 2019. The only First Nations to respond to date are the Okanagan Indian Band (OKIB), the Penticton Indian Band (PIB), Splatstin First Nation (SPFN). SPFN was the only one of the three that requested a Cultural Heritage Review (CHR). SPFN completed a CHR and Preliminary Field Reconnaissance (PFR) on June 25, 2019. The follow-up CHR report had no findings. The PFR report noted two areas of potential (AOPs) existed in the block and further archaeological review was required. Tipi completed an archaeological field assessment and determined no archaeological materials, or sites were observed, recorded, or are otherwise suspected within the proposed block (refer to the archaeological assessment section).</p> <p>Comments have not been received from WFN or any other First Nation group other than OKIB, PIB, or SPFN todate. If a CHR is requested by WFN or another First Nation, and accommodations are required after completion of the CHR, this plan will be amended by the Timber Sales Manager prior to the sale of the TSL.</p> <p>This block is consistent with section 5.6 of the FSP.</p>                                                                                                                                                         |
| Enhanced Resource Development Zones |  | <p>FSP Section 5.2.2</p> <p>This proposed block is located within an Enhanced Resource Development Zone.</p> <p>This block is consistent with FSP section 5.2.2 regarding Enhanced Resource Development Zones.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Fire Maintained Ecosystems          |  | <p>FSP Section 5.3.1.4</p> <p>This proposed block is not located within a Fire Maintained Ecosystem.</p> <p>FSP section 5.3.1.4 is not applicable to this block.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Fisheries Sensitive Watersheds      |  | <p>FSP Section 5.3.3</p> <p>This development is not located within a Fisheries Sensitive Watershed.</p> <p>FSP section 5.3.3 is not applicable to this block.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Green-Up                            |  | <p>Section 5.3.1.6 Wildlife and Biodiversity-Landscape Level and 5.3.1.3 Green-up.</p> <p>The proposed block has a net area to reforest (NAR) of 14.53 ha and is consistent with Section 64 (1) (a) of the FPPR. The nearest adjacent block isTSL A62686 Block 1 which has a NAR of 36.0 ha. A pinch point of approximately 70 meters exists between the proposed block (TSL TA0568 Block 2) and existing harvested area TSL A62686 Block 1 to the east. The combined area of the two block exceeds the maximum opening size of 40 ha as per the FPPR. However, as per FPPR section 64(2)(a)(i)(A) green-up/adjacency is not applicable as the proposed block is being harvested to recover timber damaged by fire. In addition, as per FPPR section 64 (4)(a) green-up is not applicable as TSL A62686 Block 1 is more than two tree lengths from proposed block TSL TA0568 Block 2 (Ave total timber height = 24.8m). Block 2 complies with Sections 64 and 65 of the FPPR.</p> <p>This block is consistent with sections 5.3.1.3, and 5.3.1.6 of the FSP.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Invasive Plants                     |  | <p>FSP Section 6.1</p> <p>No invasive species was observed within or near the proposed block during SP data collection. The nearest occurrence of an invasive plant is Hawkweed located in TA0568 block 4 approximately 1.1 km east of block 2. An occurrence of Hoary Alyssum (HA), Scentless Chamomile (SH), Spotted Knapweed (SK), and Yellow Devil Hawkweed (YD) was noted in LRM mapping approximately 1.8 km west of the block.</p> <p>The nearest occurrence of invasive plants on the access route to the block are Diffuse knapweed (DK), Hound's-tongue (HT), St. John's wort/Saint John's wort/Goatweed (SJ), Plumeless thistle (PT), and Spotted Knapweed (SK) at approximately 11 km of the Santa Rosa Road. This occurrence is located approximately 15 km from the block but is on the access route to the block. Contractors need to be made aware of this invasive plant occurrence during pre-works and appropriate measures applied to prevent spreading of the invasive species to the block during operational activities.</p> <p>Operations regarding Invasive Plants will follow the procedures set out in the BCTS Environmental Procedure "Invasive Plants EFP #09".</p> <p>This block is consistent with section 6.1 of the FSP.</p>                                                                                                                                                                                                                                                                                                                             |
| Old and Mature Forests              |  | <p>Old and Mature Forests FSP Section 5.3.1.2</p> <p>Objective 2 of the KBHLPO for old forest is met through (non-legal) spatially identified Old Growth Management Areas (OGMAs). This block is located adjacent to an OGMA but does not fall within the OGMA. The OGMA is located adjacent to the southeastern boundary of the block. As per FSP section 5.3.1.2 (1) (a), danger trees can be removed in the OGMA for timber damaged by the fire that affect operations in the proposed block. However, trees felled should be left on site for Coarse Woody Debris (CWD).</p> <p>LRM mapping of TA0568 Block 2 shows V4 BEC zone ICH dw exists as a band in the middle of the block and in the southeastern corner of the block. The rest of the block is mapped in LRM as being within the ICH mw 2 V4 BEC zone. As per Objective 2 and table 2.5 of the KBHLPO there are no established mature targets for ICHmw2. Mature forest only needs to be managed in the ICH dw V4 BEC zone. Portions of this block that fall within ICH dw also fall within the Connectivity Corridor (approximately 4.0ha). The General direction is to manage mature requirements first within the Connectivity Corridor, then outside. Currently there is a 298ha surplus of mature forest available within the Connectivity Corridor. As a result all of the mature forest in the ICH dw portion of the block is available to harvest. This development is consistent with objective 2 of the KBHLPO.</p> <p>This block is consistent with objective 2 of the KBHLPO and section 5.3.1.2 of the FSP.</p> |
| Other Resource Features             |  | <p>FSP Section 5.8.1 Road Maintenance and Section 5.8.2 Revegetation</p> <p>Road maintenance for associated roads with the block will be maintained to insure the structural integratory of the road and appropriate drainage measures management. Required revegetation measures and timing of exposed soils will be employed following road construction and deactivation.</p> <p>This block and its associated roads will be consistent with sections 5.8.1and 5.8.2 of the FSP.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Range                               |  | <p>FSP Section 6.2</p> <p>There are no range licenses that overlap, or are adjacent to this development.</p> <p>This block is consistent with Section 6.2 of the FSP.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recreation Sites & Trails  |  | <p>FSP Section 5.7</p> <p>This development is not located within an established recreation site or trail with legal objectives. The nearest recreation trail is the Dewdney Trail recreational trail located approximately 90 to 100 meters northwest of the block. The trail is designated a Heritage Trail under the Heritage Conservation Act. As per FSP section 5.7.6, primary forest activities within 100 meters of the centerline of the Dewdney Trail sections will be limited to an amount that, in the opinion of a QRP, is necessary to address damage caused by fire, insects, windthrow or other forest health factors and will be consistent, to the extent practicable, with the requirements of the Dewdney Trail Plan and will proceed only with the authorization of the District Manager FLNRO. Harvest of this block is required to address timber damaged by fire and meets the requirements of section 5.7.6 of the FSP. A June 19, 2017 email from T. DeCourcy, District Manager FLNRO to L. Hodgkinson BCTS Planning Forester authorized harvest within the 100m trail buffer. The email noted that harvesting is restricted to salvage of fire damaged timber, or trees required to be felled for safety.</p> <p>The nearest recreation site is the Santa Rosa Creek recreation site (Site Id 2144) located on the Rossland -Cascade Rd approximately 4.8 km northeast of the block.</p> <p>This block is consistent with section 5.7 of the FSP.</p>                                                                                                                                                                                  |
| Riparian                   |  | <p>FSP Section 5.3.1.5</p> <p>There are no known fish streams associated with the block or affected by operations. One S6 stream (S6-1) is in the WTRA (WTRAs 1 and 2) that splits the northern and southern portions of the block. Two S6 streams (S6-2 and S6-10) are located outside the southeastern boundary of the block. The entire RMZs of S6-2 ad S6-10 are located outside the proposed block harvest area. One NCD (NCD-1) is in the western section of WTRA-1 and terminates by flowing into S6-1. Three NCDs (NCD-6, NCD-7 and NCD-8) start in the southeast harvest area of the block and terminate flowing into S6-10 outside the block. Three NCDs (NCD-2, NCD-3 and NCD-5) are located outside the southeast boundary of the block. NCD-2 and NCD-3 flow into S6-2, whereas NCD-5 flows into S6-10. All riparian features were classified as per FPPR. S6-1 has been flagged in the field with purple watercourse ribbon. Riparian management strategies are outlined in the riparian assessment section of the site plan support document.</p> <p>Management within the block will be consistent with Sec.5.3.1.5 of the FSP.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Soils                      |  | <p>FSP Section 5.1</p> <p>Soils in the block tend to be loose due to the fire and consist of Loamy Sands. The compaction hazard rating is low, soil displacement is rated as moderate, and soil erosion is rated as moderate. In accordance with Section 35 (1) of the FPPR, this constitutes a non-sensitive soil. A coarse fragmental (&gt;70% CF) unfavourable substrate layer which is difficult to dig and consisting of large stones and cobbles exists at approximately 30cm depth in SU2. Although there is no harvest season restriction based on soil, the block is recommended for a dry season harvest due to overland flow being common throughout the block. The licensee is responsible for ensuring the maximum soil disturbance limit of 10% of the NAR is not exceeded.</p> <p>PAS for the block is composed of approximately 361m one sided road and 424m two-sided road of spur road ARR15108 sec 6 for an impact of 0.67 ha, or 4.09% of the gross block area which is under the 7% limit specified in Section 36 of the FPPR.</p> <p>The only temporary access structures (TAS) associated with the block is the existing skid trail located along the southeastern boundary of the harvest area. The portion of the trail inside the block is 172m for an impact of 0.07 ha, or 0.5% of the NAR.</p> <p>All access structures will be managed to ensure natural drainage patterns are maintained and erosion measures are installed prior to spring freshet.</p> <p>Areas within the block assigned to roadside work areas will not exceed 25%.</p> <p>This block is consistent with FSP Section 5.1 and the FPPR sections 35 and 36.</p> |
| Timber                     |  | <p>FSP Section 5.2.1</p> <p>The TSM is exempt from the requirement to prepare results and strategies for an objective set by government for timber in accordance with FPPR Sec. 12(8).</p> <p>This block is consistent with section 5.2.1 of the FSP.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Visual Quality             |  | <p>FSP Section 5.5</p> <p>The proposed block is not within a scenic area, or established visual polygon.</p> <p>The block is consistent with section 5.5 of the FSP.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Wildlife - Species at Risk |  | <p>FSP Section 5.3.2.4 - Species at Risk</p> <p>This block is not within a Wildlife Habitat area for Coeur d'Alene Salamander, Flammulated Owl, Interior Western Screech-Owl, Williamson's Sapsucker. No species at risk were observed within, or near, the proposed block during development activities. The nearest species at risk noted in LRM is a masked sensitive risked ecosystem, or species approximately 1.5 km west of the block. The nearest species at risk identified in LRM is the American Badger located approximately 5.8 km west of the block.</p> <p>This block is consistent with section 5.3.2.4 of the FSP.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Wildlife - Caribou         |  | <p>FSP Section 5.3.2.2 is not applicable to this proposed block.</p> <p>This Block is not within identified Caribou habitat (#U-4-012).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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| Wildlife - Grizzly Bear Habitat    |  | <p>FSP Section 5.3.2.1 and GAR order # 8-373</p> <p>Mapping of important Grizzly Bear Habitat has been completed. This proposed block is located within a conditional harvest area of GAR Order 8-373 - schedule A.</p> <p>GWM 1: This general measure is not applicable as this proposed block is not accessed off the Big Sheep FSR or any other Table1/Schedule 1 areas, or a Schedule B area of the GAR order.</p> <p>GWM 2: GWM general measure is not applicable as this proposed block is not located within a Schedule B area of the GAR order.</p> <p>GWM 3: This measure is not applicable as the proposed block is not located within areas that contain habitat features, or site series listed in Tables 2 and 3.</p> <p>GWM 4: GWM 4 is not applicable as the road within the block is not a main haul road.</p> <p>GWM 5: The proposed block is not located within areas that contain site series listed in Table 3 or 4 of the GAR order. Although it is not a requirement to retain pre-harvest CWD levels due to site series, CWD and wildlife trees that are representative (spp, age and size) of pre-harvest levels/conditions will be maintained at pre-harvest levels, where practicable.</p> <p>GWM 6: This block does not contain a BEC Zone site series identified in table 4 of GWM 6. Although there is no requirement to manage for Vaccinium Spp. since this area is not within a BEC Zone site series identified in GWM 6, attempts will be made to maintain Vaccinium Spp. productivity within this block by avoiding brushing treatments on Vaccinium Spp. and minimizing the amount of skid trails within the block, where practicable.</p> <p>GWM 7: GWM 7 is not applicable as no avalanche tracks are present in the area.</p> <p>GWM 8: This measure is not applicable as the proposed block is not located within an area that contains site series listed in Tables 3.</p> <p>GWM 9: GWM 9 is applicable. The proposed block is not located within 50m of a wetland larger than 0.5ha. However, it is located within a riparian management area where the contiguous canopy opening is greater than 40ha. Where harvesting occurs within the RMA of the S6 stream bisecting the block non-merchantable vegetation is to be maintained, except where required for stream crossings within the RMA's of the streams.</p> <p>GWM 10: The use of herbicides, sheep, domestic goats or cattle for vegetation management will not be used except where they may be necessary for the treatment of invasive plants.</p> <p>This block is consistent with section 5.3.2.1 of the FSP</p> |
| Wildlife - Ungulate Winter Range   |  | <p>FSP Section 5.3.2.3 and 5.3.2.4</p> <p>This block is not located within an Ungulate Winter Range Area/Polygon; therefore, there are no UWR requirements.</p> <p>The block is consistent with section 5.3.2.4 of the FSP.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Wildlife - Wildlife Tree Retention |  | <p>FSP Section 5.3.1.7</p> <p>The Wildlife Tree Retention Area (WTRA) associated with this block totals 1.2 ha which is approximately 7.8% of the block gross area (NAR+PAS). The overall timber sale WTRA total is 4.6 ha which is approximately 8.5% of the gross area for the entire TSL. Which is consistent with the minimum targets of 3.5% for the block and 7.0% for the TSL.</p> <p>This block is consistent the section 5.3.1.7 of the FSP.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

STOCKING REQUIREMENTS

| SU | NAR | STANDARDS ID # | OTHER PERFORMANCE STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----|-----|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 9.1 | 1057585        | (FD58) ; South Area - Fd limited to a max 50% of preferred and acceptable well-spaced stems in the IDFmw and all subzones of the ICH due to root rot. See Root Rot Handbook (2017, in press); (HW201) ; Maximum 50% of preferred and acceptable well-spaced trees; (PW31) ; must use blister rust resistant stock. See BC Journal of Ecosystems and Management 10(1): 97-100 for supplementary information; (SE10) ; suitable on cool aspects; (SE13) ; suitable at upper elevations; (BG14) ; suitable at lower elevations; (BG16) ; suitable in the southern portion of biogeoclimatic unit. FOR ALL SPECIES - MITD will be 2.0m on all areas. Early Free Growing date = 9. |
| 2  | 5.4 | 1057450        | (PL13) ; suitable at upper elevations; (PW31) ; must use blister rust resistant stock. See BC Journal of Ecosystems and Management 10(1): 97-100 for supplementary information. FOR ALL SPECIES - MITD will be 2.0m on all areas. Early Free Growing date = 12.                                                                                                                                                                                                                                                                                                                                                                                                               |
|    |     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

ADMINISTRATION

|                  |                       |               |
|------------------|-----------------------|---------------|
| Amendment number | Date Typed (Yr Mo Dy) | Map Required? |
| ORIGINAL         | 2019 09 16            | YES           |

| RPF PRINTED NAME                                                                                                                                                                                                         |             | RPF'S SIGNATURE and SEAL                                                              |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------|--|
| Peter, Share                                                                                                                                                                                                             |             |  |  |
| DATE SIGNED                                                                                                                                                                                                              |             |                                                                                       |  |
| 2019/09/16                                                                                                                                                                                                               |             |                                                                                       |  |
| I certify that I have reviewed this document and, while I did not personally supervise the work described, I have determined that this work has been done to standards acceptable of a Registered Professional Forester. |             |                                                                                       |  |
| DISTRICT MANAGER NAME                                                                                                                                                                                                    | DATE SIGNED | DISTRICT MANAGER SIGNATURE                                                            |  |
|                                                                                                                                                                                                                          |             |                                                                                       |  |

Map attached forms an integral part of the site plan.

SILVICULTURE PLAN

ORIGINAL

| LICENCE # | CP | BLOCK | UBI   | OPENING<br>NUMBER | FDU | LOCATION  | LATITUDE / LONGITUDE |
|-----------|----|-------|-------|-------------------|-----|-----------|----------------------|
| TA0568    | -  | 2     | BF6GG |                   |     | Big Sheep | 49 00 27 / 118 03 11 |

ECOLOGICAL INFORMATION

| SU | Ecology Unit | Area | Zone | Subzone | Variant / Phase | Site Series (series - %) | Elevation Avg (m) | Slope Avg (%) | Aspect | Slope Position | Rooting Depth (cm) | Soil Texture |
|----|--------------|------|------|---------|-----------------|--------------------------|-------------------|---------------|--------|----------------|--------------------|--------------|
| 1  | A            | 9.1  | ICH  | mw      | 5               | 101-100                  | 1,355             | 35            | NE     | Middle Slope   | 40                 | LS           |
| 2  | B            | 5.4  | ICH  | dw      | 1               | 103-100                  | 1,425             | 45            | SE     | Middle Slope   | 40                 | LS           |

| STOCKING REQUIREMENTS                 |              |                   |                      |                     |
|---------------------------------------|--------------|-------------------|----------------------|---------------------|
| ASSESSMENT DATES                      |              |                   |                      |                     |
| Standard Unit                         | Standards ID | Regen Delay (yrs) | Freegrow Early (yrs) | Freegrow Late (yrs) |
| 1                                     | 1057585      | 4                 | 0                    | 20                  |
| 2                                     | 1057450      | 7                 | 0                    | 20                  |
| Min/Max Elevation Regime: 1290 / 1490 |              |                   |                      |                     |

| SU : 1            |                        |             |           |                    |                           |             |           |                           |                  |                                    |              |                                   |  | REGENERATION LAYER |  |  |  |
|-------------------|------------------------|-------------|-----------|--------------------|---------------------------|-------------|-----------|---------------------------|------------------|------------------------------------|--------------|-----------------------------------|--|--------------------|--|--|--|
| PREFERRED SPECIES |                        |             |           | ACCEPTABLE SPECIES |                           |             |           | POST SPACING DENSITY(sph) |                  |                                    |              | MAX CONIFEROUS (sph)              |  |                    |  |  |  |
| Species           |                        | Min Ht. (m) | Footnotes | Species            |                           | Min Ht. (m) | Footnotes | Min                       | 1800             | Max                                | 2500         | 10000                             |  |                    |  |  |  |
| Cw                | Western Red Cedar      | 1.0         |           | Pli                | Lodgepole Pine - Interior | 2.0         |           | WELL SPACED TREES (sph)   |                  |                                    |              |                                   |  |                    |  |  |  |
| Fdi               | Douglas Fir - Interior | 1.4         |           | Bg                 | Grand Fir                 | 1.0         |           | Target Pref/Acc           | Minimum Pref/Acc |                                    | Minimum Pref | Min Horizontal Dist. Pref/Acc (m) |  |                    |  |  |  |
| Se                | Englemann Spruce       | 1.0         |           |                    |                           | 1200        |           | 700                       |                  | 600                                | 2.0          |                                   |  |                    |  |  |  |
| Lw                | Western Larch          | 2.0         |           |                    |                           |             |           |                           |                  | Height Relative to Competition (%) |              |                                   |  |                    |  |  |  |
| Pw                | Western White Pine     | 2.0         |           |                    |                           |             |           |                           |                  |                                    |              |                                   |  |                    |  |  |  |
| Hw                | Western Hemlock        | 1.0         |           |                    |                           |             |           |                           | 150              |                                    |              |                                   |  |                    |  |  |  |
|                   |                        |             |           |                    |                           |             |           |                           |                  |                                    |              |                                   |  |                    |  |  |  |

| SU : 2                                                           |  |                   |           |                                                        |  |                    |           |                         |      |                  |      |                           |  | REGENERATION LAYER                 |  |                      |  |  |  |  |  |  |  |
|------------------------------------------------------------------|--|-------------------|-----------|--------------------------------------------------------|--|--------------------|-----------|-------------------------|------|------------------|------|---------------------------|--|------------------------------------|--|----------------------|--|--|--|--|--|--|--|
| PREFERRED SPECIES                                                |  |                   |           |                                                        |  | ACCEPTABLE SPECIES |           |                         |      |                  |      | POST SPACING DENSITY(sph) |  |                                    |  | MAX CONIFEROUS (sph) |  |  |  |  |  |  |  |
| Species                                                          |  | Min Ht. (m)       | Footnotes | Species                                                |  | Min Ht. (m)        | Footnotes | Min                     | 1200 | Max              | 2500 | 10000                     |  |                                    |  |                      |  |  |  |  |  |  |  |
| Fdi Douglas Fir - Interior<br>Py Yellow Pine<br>Lw Western Larch |  | 1.0<br>0.8<br>1.4 |           | Pw Western White Pine<br>Pli Lodgepole Pine - Interior |  | 1.4<br>1.4         |           | WELL SPACED TREES (sph) |      |                  |      |                           |  |                                    |  |                      |  |  |  |  |  |  |  |
|                                                                  |  |                   |           |                                                        |  |                    |           | Target Pref/Acc         |      | Minimum Pref/Acc |      | Minimum Pref              |  | Min Horizontal Dist. Pref/Acc (m)  |  |                      |  |  |  |  |  |  |  |
|                                                                  |  |                   |           |                                                        |  |                    |           |                         |      |                  |      |                           |  |                                    |  |                      |  |  |  |  |  |  |  |
|                                                                  |  |                   |           |                                                        |  |                    |           | 1000                    |      | 500              |      | 400                       |  | 2.0                                |  |                      |  |  |  |  |  |  |  |
|                                                                  |  |                   |           |                                                        |  |                    |           |                         |      |                  |      |                           |  | Height Relative to Competition (%) |  |                      |  |  |  |  |  |  |  |
| 150                                                              |  |                   |           |                                                        |  |                    |           |                         |      |                  |      |                           |  |                                    |  |                      |  |  |  |  |  |  |  |
|                                                                  |  |                   |           |                                                        |  |                    |           |                         |      |                  |      |                           |  |                                    |  |                      |  |  |  |  |  |  |  |

| OTHER REQUIRED STOCKING INFORMATION |
|-------------------------------------|
|-------------------------------------|

ACTIVITIES

| PLANTING                                       |                             |           |         |          |            |             |
|------------------------------------------------|-----------------------------|-----------|---------|----------|------------|-------------|
| Planting (Artificial Regen) 2021/05/31 SEASON: |                             |           |         |          |            |             |
| AREA                                           | PLANTING UNIT               | UNIT AREA | SPECIES | COMMENTS | STEMS / HA | TOTAL STEMS |
| 14.5                                           | 0                           | 0.0       |         |          | 0          | 0           |
|                                                | LIMITING FACTORS / COMMENTS |           |         |          |            |             |
|                                                |                             |           |         |          |            |             |

| SILVICULTURE ACTIVITY COMMENTS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACTIVITY                       | COMMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Brushing                       | <p>In SU 1 the understory vegetation layer is absent due to the fire. However, alder is present on roadsides and near stream S6-1</p> <p>In SU 2 the herb layer is composed Black Huckleberry (15%) and alder (10%). Although there is no requirement to manage for Vaccinium Spp. as this area is not within a BEC Zone site series identified in GWM 6, attempts will be made to maintain Vaccinium Spp. productivity within this block by avoiding brushing treatments on Vaccinium Spp. If required, mechanical brushing is only to be completed to maintain survival of crop tree species, not to achieve free growing. not to achieve free growing.</p> <p>A post-harvest assessment should be completed to determine if brushing is required.</p> <p>Herbicides and/or pesticides are not to be used in this block.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Site Preparation               | <p>In SU 1 the understory vegetation layer is absent due to the fire. However, alder is present on roadsides and near stream S6-1</p> <p>In SU 2 the shrub layer is composed of shinyleaf spirea (17%), Black Huckleberry (15%), alder (10%), and falsebox (8%) with minor amounts of Baldhip rose (2%). Although there is no requirement to manage for Vaccinium Spp. as this area is not within a BEC Zone site series identified in GWM 6, attempts will be made to maintain Vaccinium Spp. productivity within this block. The herb layer is comprised of mainly pine grass (40%), with minor amounts of balsam root (3%) and princes pine (2%). A post-harvest assessment will be completed to determine whether or not site prep will be required. If required, the survey will determine where site prep is necessary. Site preparation is not recommended in areas where it will inhibit Vaccinium productivity. Ocular observation can identify any areas of Vaccinium concentrations, in those areas mechanical disturbance will be avoided. Hand screefing by planters is acceptable in areas with vaccinium concentrations. In areas with minimal vaccinium, mechanical site preparation may be utilized for moist, or slashy areas to create raised microsites. Herbicides and/or pesticides are not to be used in this block.</p> <p>Site limiting factors for site preparation include:</p> <p>1) Some areas of the block will have moderate CWD post harvest due to the impact of the fire.</p> <p>2) Some areas of the block contain relatively high rock levels (rock outcrops, exposed cobbles and boulders, as well as thin soils over bedrock.</p> <p>Additional site preparation activities may include piling or piling and burning of slash accumulations at landings and within the NAR. Up to 10% of piles may be left unburned to contribute to wildlife habitat and coarse woody debris values. Remove harvest debris from any gullies/draws, and all other natural water drainage structures/features unless it does not obstruct water flow, or its removal would cause greater site damage.</p> |
| Planting                       | <p>Manage for a mixed species stand and plant a species mix that is similar to the pre-harvest stand, with emphasis given to DRA tolerant species. Recommend planting a Fdi, Cw, Bl, Hw, and Sx mix, with Cw and Sx recommended for planting in low lying areas and areas that contain relatively moist soils.</p> <p>Planting should occur as soon as possible after harvest or site preparation. Signs of ungulate browsing should be monitored during silviculture surveys.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

MANAGEMENT STRATEGY

| COARSE WOODY DEBRIS MANAGEMENT STRATEGY INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                   |       |                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------|-------|----------------------------------|
| <p>Manage CWD levels to pre-harvest levels, except in areas where concentrations are too high for effective planting and/or successful regeneration.</p> <p>Post-harvest CWD target is 4m3/ha. The licensee must retain a minimum of 4 full length logs per hectare, having a minimum dbh of 7.5cm. Non-merchantable log grades (firm-wood rejects and some dry grade 4), as well as timber that is not salvagable due to the fire, or blowdown will be left on site. Efforts will be made to ensure these logs are not broken at time of harvesting. Logs may consist of a variety of species and shall be evenly distributed across the block.</p> <p>This block is consistent with section 68 of the FPPR.</p> |       |                   |       |                                  |
| Performance Std. (%):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 100.0 | Block Target (%): | 100.0 | Coarse Woody Debris (m3/ha): 4.0 |

ADMINISTRATION

| Amendment number | Date Typed (Yr Mo Dy) | Map Required? |
|------------------|-----------------------|---------------|
| ORIGINAL         | 2019 09 16            | YES           |

| RPF PRINTED NAME                                                                                                                                                                                                         |             | RPF'S SIGNATURE and SEAL                                                            |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|--|
| Peter, Share                                                                                                                                                                                                             |             |  |  |
| DATE SIGNED                                                                                                                                                                                                              |             |                                                                                     |  |
| 2019/09/16                                                                                                                                                                                                               |             |                                                                                     |  |
| I certify that I have reviewed this document and, while I did not personally supervise the work described, I have determined that this work has been done to standards acceptable of a Registered Professional Forester. |             |                                                                                     |  |
| DISTRICT MANAGER NAME                                                                                                                                                                                                    | DATE SIGNED | DISTRICT MANAGER SIGNATURE                                                          |  |
|                                                                                                                                                                                                                          |             |                                                                                     |  |