



TENURE IDENTIFICATION

ORIGINAL

LICENCE #	CP	BLOCK	UBI	OPENING NUMBER	FDU	LOCATION	LATITUDE / LONGITUDE
TA2093	-	MSAMW	BEAMW		100 Mile FDU	Flat Lake Fire - Gustafsen Lake FSR	51 39 25 / 121 37 33

AREA UNDER THE PLAN

GROSS AREA (TAUP)	PAS	NP	WTRA / WTP	RESERVES	OTHER	NAR
24.5	0.0	0.0	4.2	0.0	0.0	20.3

ADDITIONAL COMMENTS

DEFINITIONS (ADD DEFINITIONS AS REQUIRED)
This Site Plan is prepared for block MSAMW and roads MH R23942.09, MH MSAMW.01, MH MSAMW.02 and MH MSAMW.03, and is consistent with the BCTS Kamloops Business Area, 100 Mile House TSA Forest Stewardship Plan dated October 1, 2019 and effective February 26, 2020.
This Site Plan is prepared for this block and its associated roads in accordance with FRPA Section 10 (1), (2) & (3).

SOIL DISTURBANCE

SU	Max. Allowable Soil Disturbance (%)	Max. Amount TAS May Exceed MASD Prior To Rehab (%)	Max. Allowable Soil Disturbance For Roadside Work Areas (%)	Maximum Permanent Access Structures (%)
1	10.0	5.0	25.0	0.0
SU	CRITICAL SITE CONDITIONS THAT AFFECT THE TIMING OF OPERATIONS, AND HOW THEY AFFECT THE TIMING			
1	Soils within the block are loamy; however, due to the hydrophobicity of the burned top soil layer, it can become greasy and slick during break-up conditions. Use caution with machinery at this time and while walking through the area. Avoid concentrated forwarding/skidding routes in wet soil conditions.			

RESULTS AND STRATEGIES

FSP:	FDU:
BCTS 100 Mile House FSP	100 Mile FDU
Biodiversity Objectives	
Result or Strategy Description	5.2.2 Landscape Unit (LU) Boundaries
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development is located entirely within the Bridge Creek landscape unit, which has a BEO of Low, and is within the IDFdK3 biogeo zone; NDT 4.
Result or Strategy Description	5.3.1 Wildlife Tree Retention
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This block is within the IDFdK3 biogeo unit of the Bridge Creek LU, which has a wildlife tree retention target of 9%. There are 3 proposed wildlife tree retention areas (WTRA) within this block accounting for 17.2% of the gross area.
Result or Strategy Description	5.2.1 Spatial / Temporal Distribution of Cutblocks and Species Composition
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	Wildfire has severely impacted the timber within this development, and greater than 50% of the basal area of the stand is dead; therefore, patch size targets are not applicable to this opening.
Result or Strategy Description	5.2.3 Old Seral Landscape Biodiversity
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development does not overlap any OGMA or OGDA.
Result or Strategy Description	5.2.4 Mature + Old Seral Landscape Biodiversity
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The proposed harvest for this block is moderate to high burn severity with greater than 50% mortality. After salvage harvesting it is unlikely that the LU will have opportunity in M+O and O.

Result or Strategy Description	5.3.2 Riparian Areas
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	There are no classified riparian features associated with this block.
Cultural Heritage Objectives	
Result or Strategy Description	5.6 Cultural Heritage Resources
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	<p>This development has been referred to all potentially affected First Nations , as was determined through a search of the Consultative Area Database (CAD).</p> <p>If a previously unidentified potentially affected Cultural Heritage Resource (CHR) is encountered during harvesting, road construction or mechanical site preparation, operations must cease to the extent necessary to protect the affected CHR.</p>
Lakes Management Objectives	
Result or Strategy Description	5.9.1 Tourism – General
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development does not overlap a guide outfitter operation.
Result or Strategy Description	5.9.2 Lakeshore Management Zones
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development is not within a Lakeshore Management Zone (LMZ).
Measures	
Result or Strategy Description	5.11 Invasive Plants
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	<p>As per a search of the Alien Invasive Plant Program database , there are 2 known invasive plants within 500m of the development: hoary alyssum and spotted knapweed. Bull thistle, meadow goats-beard, mullein, oxeye daisy, sulphur cinquefoil, and shepherds purse, are also known invasive plants along the 1100 Road that provides access to this block.</p> <p>Preventative measures for controlling the introduction of invasive species will be implemented as follows: Within one year of activity completion, all contiguous areas of disturbed soil >/=0.1ha, including areas occupied by ditch-lines, cut or fill slopes, bladed skid trails, and deactivated roads which are not reforested, are revegetated with seed or forage mixture that meets or exceeds Canada Common Number 1 Forage Mixtures as defined by the Canada Seeds Act and Regulation or native shrubs : a) At least 90% of the total area exposed in a calendar year requires seeding, by July 1 of the immediately following calendar year; and b) The remainder of such exposed area prior to December 31 of the same immediately following calendar year; and The Certificate of Seed Analysis must be made available to FLNRORD staff , for review upon request, for a one year period following the application of the seed to ensure that the batch does not contain High Priority Invasive Species. If within an Invasive Plant Zone, where within 12 months of the grass seeding identified above, it is identified during road inspections that the area is insufficiently revegetated (less than 10% cover), then the exposed area will be re-seeded at least once.</p>
Range Objectives	
Result or Strategy Description	5.10.1 Natural Range Barriers
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	Harvesting this block will not remove or render ineffective any natural range barriers.
Result or Strategy Description	5.10.2 Animal Unit Months
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The authorized level of AUMs for the Gustafsen FDU is 37,538; it is unknown if this level is being maintained.

Recreation Objectives	
Result or Strategy Description	5.7.1 Backcountry
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development does not overlap any CCLUP designated backcountry polygons ; however, there is a registered trapper operating within the area. This development was referred and no comments were received.
Result or Strategy Description	5.7.2 Wildcraft
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	There are no existing extended use roads requiring access control associated with this development.
Result or Strategy Description	5.7.3 Recreation Sites, Trails and Interpretive Forests
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development is adjacent to the Moose Valley Park Recreation Site Polygon (Moose Valley Canoe Route REC2529), located south of the block across the main road. There is no conflict with the rec site. There are no other known rec sites, trail or interpretive forests associated with this development.
Result or Strategy Description	5.7.4 Buffered Trails
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	There are no buffered trails within or adjacent to the proposed development.
Soil Management and Conservation Objective	
Result or Strategy Description	5.1 Soils
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	Soils within this block are primarily non-sensitive; therefore, the maximum soil disturbance limit is set at 10% of the NAR. There are no PAS associated with this development. TAS accounts for 6.4% of the NAR. This block is consistent with sections 35 & 36 of the FPPR.
Visual Objectives	
Result or Strategy Description	5.8 Visual Quality
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	Not within a scenic area with established VQOs, nor is it within a High Elevation Viewshed.
Water Objectives	
Result or Strategy Description	5.4.1 Water in Community Watersheds
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development is not located within a community watershed.
Result or Strategy Description	5.4.2 Hydrology
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development is not within the Bonaparte, Clinton, Loon, Boss/Deception, Flat Lake, Interlakes, Lang Lake/Schoolhouse, or Marble Range FDU applicable areas for Key Watersheds .
Result or Strategy Description	5.4.3.1 Horsefly River Fisheries Sensitive Watershed (GAR F-5-001)
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development is not within the Horsefly Watershed as identified in GAR F-5-001.

Result or Strategy Description	5.4.3.2 Fisheries Sensitive Watershed - Deadman Watersheds (GAR F-3-013)
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development is not within the Deadman Watershed as identified in GAR F-3-013.
Wildlife Objectives	
Result or Strategy Description	5.5.1.1 Species at Risk – General
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	<p>A search of the BC Species and Ecosystems Explorer listed 64 wildlife species at risk in the IDFdK3 biogeo zone for forest/riparian/subterranean/wetland habitat types in the 100 Mile House Forest District. Of the species at risk listed, the following are listed within the FSP (tables 11 & 12): Western Toad, Great Blue Heron, Short-eared Owl, Burrowing Owl, Northern Rubber Boa, Common Nighthawk, Northern Painted Turtle - Intermountain - Rocky Mountain Population, North American Racer, Olive-sided Flycatcher, Spotted Bat, Peregrine Falcon, Wolverine, Yellow-breasted Chat, Western Screech-Owl, Lewiss Woodpecker, Little Brown Myotis, Fringed Myotis, Bighorn Sheep, Band-tailed Pigeon, whitebark pine, Gopher Snake, Flammulated Owl, Great Basin Spadefoot, American Badger, Sharp-tailed Grouse and Grizzly Bear. Western Grebe, American Bittern, Rough-legged Hawk, Swainsons Hawk, Green Heron, River Jewelwing, Canyon Wren, Northern Painted Turtle, Evening Grosbeak, Townsends Big-eared Bat, Western Rattlesnake, Black Swift, Familiar Bluet, Gyrfalcon, Pale Jumping-slug, Nevada Skipper, Barn Swallow, Caspian Tern, California Gull, Short-billed Dowitcher, Hudsonian Godwit, Magnum Mantleslug, Surf Scoter, Western Small-footed Myotis, Double-crested Cormorant, pebbled paw, Jutta Arctic, Mountain Goat, American White Pelican, Columbia Plateau Pocket Mouse, Red-necked Phalarope, American Golden-Plover, Eared Grebe, American Avocet, Williamsons Sapsucker, Williamsons Sapsucker thyroideus subspecies, Barn Owl and Callused Vertigo were also included in the list of species at risk, but are not listed within the FSP.</p> <p>A Western Toad was found within an adjacent block during fieldwork. Additional buffers were established where necessary, and winter harvest is recommended to prevent any adverse impacts to the toad populations. No further management is required. Refer to the Harvest Plan for Harvesting Constraints.</p>
Result or Strategy Description	5.5.2.7 Furbearers – Fisher
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	<p>This block is within a Dry Forest Fisher Habitat Zone. There are no established WHAs within the vicinity. This block has been impacted by high severity fire and almost all the timber and vegetation was destroyed. No rust brooms were identified. The following CWD retention is prescribed across the block to provide resting habitat, connectivity and cover: 1 piece of CWD of hard or hollow logs per hectare, each being 35>= cm in diameter and >/=7m in length, elevated 25-50cm above ground, and 1 debris pile per hectare, each being >3m wide by >5m long by >2m high, with >30% of the pieces being >20cm in diameter and >3m long. Debris piles should be located >/=20m from the timber edge, but within 200m of riparian management areas and block edges to maintain connectivity. Pile locations should aim to maintain a 50m dash distance between cover (standing timber, WTRAs, and debris piles). Actual pile locations may vary but should adhere to the above connectivity conditions. If encountered, any spruce trees with broom rust >27cm diameter (resting habitat) are to be retained. General furbearer management is also addressed by Obj 5.3.2 (Riparian Areas), Obj 5.2 (Biodiversity-Landscape Level), Obj 5.3 (Biodiversity – Stand level), Obj 5.8 (Visual Quality), Obj 5.7.1 (Backcountry), and Obj 5.9.2 (LMZs).</p>
Result or Strategy Description	5.5.2.9 Furbearers – General
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	<p>This block overlaps a trapline tenure - TR0502T076. BCTS has referred this development to the trapline tenure holder. Refer to Results and Strategies sections 5.7.1 (Backcountry) and 5.3.2 (Riparian Management), and Coarse Woody Debris Management Strategy Information under the Harvest Plan section of this Site Plan.</p>
Result or Strategy Description	5.5.4.1 Moose
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	<p>There is a high value moose wetland (CCLUP) within 1km of this development. Access control is prescribed to be installed immediately following fibre removal. See objective 5.5.5.</p>
Result or Strategy Description	5.5.5 Access Management for Wildlife
Applies:	YES
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	<p>This block does not overlap any critical habitat. Proposed road MH MSAMW.01 and MH MSANW.03 are temporary and will be rehabilitated immediately after hauling is completed. Proposed road MH R23942.09/MH MSAMW.02 will be deactivated immediately after hauling is completed and rehabilitated post-planting. Road MH R23942.08 is an existing road that accesses Moose Valley Park; this road will remain open.</p>
Result or Strategy Description	5.5.1.2 Species at Risk Listed under Government Action Regulation (GAR)
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	<p>This development does not overlap any Sensitive Habitats related to Species at Risk for which there are WHAs established under GAR.</p>

Result or Strategy Description	5.5.1.3 Mountain Caribou – Eastern Herds
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This block is not located within an identified Caribou Matrix Habitat.
Result or Strategy Description	5.5.1.4 American Badger and Spadefoot Toad
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development does not overlap any sensitive habitats related to the American Badger or Spadefoot Toad , nor were there any habitat sites identified within 200m of this development.
Result or Strategy Description	5.5.1.5 Great Blue Heron
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development does not overlap any sensitive habitats related to the Great Blue Heron, nor were there any FSP defined colonies identified within 500m of this development.
Result or Strategy Description	5.5.2.1 Grizzly Bear
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development is not within a Grizzly Bear Habitat Capability polygon (CCLUP).
Result or Strategy Description	5.5.2.2 Bighorn Sheep
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development does not fall within the Marble Range FDU.
Result or Strategy Description	5.5.2.3 White Pelicans
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	At the time of submission of this FSP, no White Pelican WHAs have been established in the 100 Mile House Natural Resource District. No evidence of White Pelican was noted during development (nests, sightings).
Result or Strategy Description	5.5.2.4 Bull Trout (Dolly Varden)
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development is not associated with any spawning or critical fish habitat.
Result or Strategy Description	5.5.2.5 Sandhill Crane
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	At the time of submission of this FPS, no Sandhill Crane WHAs have been established in the 100 Mile House Natural Resource District. No evidence of Sandhill Crane was noted during development (nests, sightings).
Result or Strategy Description	5.5.2.6 Prairie Falcon
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development does not overlap any sensitive habitats related to the Prairie Falcon, nor were there any FSP defined occurrences identified within 300m of this development.
Result or Strategy Description	5.5.2.8 Furbearers – Wolverine
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development does not overlap any established WHAs related to the Wolverine , nor were there any FSP defined occurrences identified within 500m of this development.
Result or Strategy Description	5.5.3.1 Critical Fish Habitat
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The development is not associated with any known critical fish habitat.
Result or Strategy Description	5.5.3.2 Grasslands
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	The development is not associated with any known critical grasslands.

Result or Strategy Description	5.5.4.2 Mule Deer
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development is not within UWR U-5-003 (mule deer winter range).
Result or Strategy Description	5.5.4.3 Salmon
Applies:	NO
How Result or Strategy Applies to the Site (or Rationale if it does not apply)	This development is not within the Bonaparte River or Horsefly River watersheds.

STOCKING REQUIREMENTS

SU	NAR	STANDARDS ID #	OTHER PERFORMANCE STANDARDS
1	20.3	1060387	
COMMENTS	There are areas within the block that have a moderate cover of surfical rock. A plantability survey is recommended in these areas to determine if the MITD should be reduced.		

ADMINISTRATION

Amendment number	Date Typed (Yr Mo Dy)	Map Required?
ORIGINAL	2023 02 14	YES

RPF PRINTED NAME	RPF'S SIGNATURE and SEAL
SARAH REMPEL	
DATE SIGNED	
2023/02/14	
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.	

Map attached forms an integral part of the site plan.

SUPPORT DOCUMENT

ORIGINAL

LICENCE #	CP	BLOCK	UBI	OPENING NUMBER	FDU	LOCATION	LATITUDE / LONGITUDE
TA2093	-	MSAMW	BEAMW		100 Mile FDU	Gustafsen FSR (1100rd)	51 39 25 / 121 37 33

ASSESSMENTS

VISUAL IMPACT ASSESSMENT INFORMATION
This block is not within a visually sensitive area.
PEST INCIDENCE SURVEY INFORMATION
Pest Specific Comments
Evidence of Douglas-fir beetle was noted during layout in the form of frass along the bottom 1/3 of the tree bole.
Forest Health Comments
The majority of the timber within the block has been destroyed due to severe wildfire activity in 2021. This block is proposed to salvage the fire impacted timber.
ARCHAEOLOGICAL IMPACT ASSESSMENT INFORMATION
BCTS has referred this development to all potentially impacted First Nations. Refer to the Results and Strategies section.
TERRAIN STABILITY FIELD AND GULLY ASSESSMENTS INFORMATION
Terrain Stability Comments
No instability indicators were noted.
Gully Comments
Not Applicable.
VEGETATION
No significant competition during regeneration establishment is anticipated.

RIPARIAN ASSESSMENTS					
Management Strategies					
There are no riparian features associated with this development.					
Maintain natural drainage patterns.					
See Results and Strategies section - Riparian Management.					
Riparian I.D. and Class	RMA	SU	WIDTH (m)	BA or SPH Retained	Comments (Indicate if in a Community Watershed)

SOIL ASSESSMENT							
HAZARD RATINGS				SOIL CHARACTERISTICS			
SU	Soil Comp	Soil Erosion	Soil Disp	Depth To Unfavourable Subsoil		Type of Unfavourable Subsoil	Sediment Delivery Risk (Community Watersheds)
				Min(cm)	Max(cm)		
1	H	L	L			NNTD	

COMMENTS
Soils within this block are medium textured with minor amounts of coarse fragments, and are predominantly non-sensitive (loamy), therefore the soil disturbance limit is set at 10% of the NAR.
There are no PAS associated with this development. TAS accounts for 6.4% of the NAR.
The licensee is responsible for ensuring the maximum soil disturbance limits are not exceeded. All access structures will be managed to ensure natural drainage patterns are maintained and erosion measures are installed prior to spring freshet. Recommend using a random skidding pattern and avoid skidding across depressional areas when wet. This block is consistent with sections 35 and 36 of the FPPR.

RESERVE / RETENTION INFORMATION

WTRA / WTP (INSIDE OR ATTRIBUTED TO THE BLOCK)		
I.D.#	Area	Description
WTRA	4.2	The WTRAs encompass wet areas, and/or green timber. PI 224-14; PIFd 524-12; FdPI 834-12.; PI(Fd) 524-12.

GROUP WTRA / WTP AND SITE DEG. CALCULATION (to be retained on the first block of the Permit only)						
Block	Gross Cutblock Area	WTRA / WTP	%	BEC	Perm Access	%
MS92N	64.7	8.1	12.5	IDF/dk/3	0.1	0.1
MSAL3	52.2	6.9	13.2	IDF/dk/3	0.6	1.2
MSALD	38.4	6.7	17.4	IDF/dk/3	0.0	0.0
MSAM3	23.7	2.6	11.1	IDF/dk/3	0.0	0.0
MSAMW	24.5	4.2	17.2	IDF/dk/3	0.0	0.0
MSAN0	21.9	3.8	17.2	IDF/dk/3	0.5	2.2
MSAN3	3.2	0.0	0.0	IDF/dk/3	0.0	0.0
MSAN4	1.1	0.0	0.0	IDF/dk/3	0.0	0.0
MSAN7	1.0	0.0	0.0	IDF/dk/3	0.0	0.0
MSANB	12.8	0.0	0.0	IDF/dk/3	0.0	0.0
MSAPM	5.1	0.2	4.7	IDF/dk/3	0.2	4.8
Total # of Blocks: 11	248.5	32.5	13.1		1.4	0.6

SUPPORTING INFORMATION

HLP/FSP CONSIDERATIONS
Wildlife/Endangered Species Comments
<p>The design of this block considered Migratory Bird Habitat polygons and the Beneficial Management Practices (BMPs), as outlined in the 2016 BCTS Migratory Bird Strategy.</p> <p>The proposed harvest area is primarily mapped within a Rank 1 (Very Low Risk) polygon, with a moderate overlap within a Rank 4 (Moderately High Risk) polygon. There are no classified riparian features associated with the block, and there is little to no deciduous in the vicinity; in addition, the majority of the stand has been destroyed due to wildfires in 2021. No BMPs are required and no specific management has been planned.</p> <p>If a previously unidentified migratory bird nest is encountered during harvesting, road construction, or a silviculture activity associated with this Site Plan, operations are to cease to the extent necessary to protect the affected migratory bird nest until appropriate BMPs can be implemented to minimize or prevent the risk of incidental take.</p>
Range Comments
<p>This development overlaps active range tenure RAN076020.</p> <p>No fences were noted during layout operations. However, if a fence has been constructed by the time harvesting activities commence, log up to any fences present (don't leave standing dead trees along fence), maintain a 6m RoW around fence free of debris, no site prep or planting of RoW.</p> <p>Refer to the Results and Strategies section.</p>
Fisheries Comments
<p>There are no fish sensitive features or fish bearing streams or tributaries associated with this development.</p>
Watersheds/Hydro Assessments Comments
<p>This block is within the San Jose River watershed.</p> <p>This block is not located within any community watersheds.</p> <p>Refer to the Results and Strategies section.</p>
Sensitive Areas Comments
<p>There are 17 known red or blue listed ecological communities within the IDFdk3 biogeo zone within the 100 Mile House Forest District, as per a review of the BC Species and Ecosystems Explorer.</p> <p>The development is not associated with any known sensitive areas (i.e. critical fish habitat, grasslands).</p> <p>Refer to the Results and Strategies section.</p>
Recreation Comments
<p>There are no recreation polygons or sites associated with this block.</p>
Cultural Heritage Comments
<p>This development overlaps a Low to Moderate Arch potential polygon .</p> <p>Refer to the Results and Strategies section.</p>
Biodiversity Emphasis/L.U. Comments
<p>Landscape Unit: Bridge Creek; Biodiversity Emphasis Option = Low; WTRA target: IDFdk3 = 9%</p> <p>Refer to the Results and Strategies section.</p>
Other Resources Comments
<p>Trapper: TR0502T076</p> <p>Guide Outfitter: None</p> <p>Mineral: None</p> <p>Refer to the Results and Strategies Section.</p>

ADDITIONAL COMMENTS:

ADMINISTRATION

Amendment number	Date Typed (Yr Mo Dy)	Map Required?
ORIGINAL	2023 02 14	YES

HARVEST PLAN

ORIGINAL

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SILVICULTURE SYSTEMS

SU	SYSTEM	VARIANT	PHASE	RESERVE	Min BA (m2/ha)	Min Residual Density (sph)
1	CCRES		SALVF	G		
Current Stand Structure/Site Conditions			The current stand consists of 99% Fd and 1% PI in the overstory, all heavily impacted by wildfire in 2021. Net merchantable volume of the stand prior to reductions is 172m3/ha, with an average stand height of 26.2m. Due to the severity of the burn, all regen was destroyed within the stand.			
Silviculture Systems SU Comments			SU-1: Clearcut with Reserves; SU is proposed to salvage timber killed in the 2021 wildfires.			
Min. Characteristics of Leave Trees (Form, Health, Vigour)			<p>All live, green trees (all species), and a small component of large diameter dead Fd is to be retained; 5% removal has been allotted for the live, green retention to allow for incidental removal due to operation or safety constraints. The stems per hectare (sph) listed below are an approximation of the leave trees post-harvest based on the cruise compilation, using an estimated percentage of what may be actually available for retention at time of harvest, actual numbers may vary.</p> <p>Douglas-fir (dead) – Retain 90% of all dead stems >/=67.5cm dbh; which equates to 1 sph. Douglas-fir (live) – Retain 95% of all live merch stems; which equates to 7 sph. Spruce – Retain 95% of all live merch stems; none were tallied. Lodgepole pine – Retain 95% of all live merch stems; none were tallied. Aspen – Retain 95% of all live merch stems; none were tallied.</p> <p>If encountered, retain any live unburned conifer regen, saplings and poles (with green, healthy-looking crowns) where they occur in patches.</p> <p>STUBBING Retain 3 to 4 stub groups per hectare (5 or more stubs per group, 3-5m high). These stub groups should be created near and/or connecting riparian areas, green leave trees and/or regen, adjacent green stands/plantations, large CWD logs left after burn, large rocks and/or outcrops, and knolls.</p>			

Additional Comments

Harvesting Constraints	<p>HARVEST INFORMATION This block is appropriate for conventional roadside harvest (i.e. rubber tired skidder, mechanical falling). If safe work practices acceptable to WorkSafeBC have not been provided , a harvest strategy will be developed by the licensee to eliminate or control the steep slope hazard (ie bladed trails, hand fall, line skid).</p> <p>SAFETY Extensive wildfire disturbance during summer 2021 has created large areas of dead standing timber, which can be overhead hazards (brittle tops, unstable roots). Areas of unstable ground occur where root masses have been burned away below the top soil layer and can pose as tripping, twisting or falling hazards.</p> <p>SOILS Soils may be hydrophobic due to being burned in the 2021 wildfires, and could become greasy and slick during precipitation events. Minimize machine traffic to the extent practicable to reduce further soil damage .</p> <p>SLOPES Slopes within the block are <35%.</p> <p>*****</p> <p>ARCHAEOLOGICAL / CULTURAL HERITAGE If a previously unidentified affected Cultural Heritage Resource is encountered during harvesting , road construction or mechanical site preparation, operations must cease to the extent necessary to protect the affected cultural heritage resource until a Cultural Heritage Resource Evaluation can be completed .</p> <p>MIGRATORY BIRDS If a previously unidentified migratory bird nest is encountered during harvesting, road construction, or a silviculture activity associated with this Site Plan, operations are required to cease to the extent necessary to protect the affected migratory bird nest until alternative BMPs can be implemented to minimize or prevent the risk of incidental take.</p> <p>AMERICAN BADGER HABITAT If a previously unidentified badger den or signs of badger activity is encountered during harvesting, road construction, or a silviculture activity associated with this Site Plan, operations are required to cease to the extent necessary to protect the affected den/habitat until a management plan can be developed. As road-kill is the primary threat to badgers, machines and trucks are to be alert and cautious while harvesting and hauling.</p> <p>MINERAL CLAIMS This block is not located within a known Mineral Claim; however, if any identified claim posts, monuments, drill sites and core boxes are encountered, they are to be retained. None of these features were identified during field work.</p>
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SOIL ASSESSMENT											
SU	HAZARD RATINGS			SOIL DISTURBANCE				SOIL CHARACTERISTICS			
	Soil Comp.	Soil Erosion	Soil Disp.	Max Allow Soil Dist %	Max Allow Max Amount TAS may exceed MASD prior	Max Allow Perm Access Structures %	MASD for Roadside work areas %	Depth to Unfavorable Subsoil		Type of Unfavorable Subsoil	Sediment Delivery Risk (Comm. Watershed)
								Min (cm)	Max (cm)		
1	H	L	L	10.0	5.0	0.0	25.0			None Noted	
SU	Critical site conditions that affect the timing of operations and how they affect the timing										
1	Soils within the block are loamy; however, due to the hydrophobicity of the burned top soil layer, it can become greasy and slick during break-up conditions. Use caution with machinery at this time and while walking through the area. Avoid concentrated forwarding/skidding routes in wet soil conditions.										

SU MANAGEMENT COMMENTS	
SU	SU Description
1	This SU is comprised primarily of Fdi with a very minor component of Pli, heavily impacted by the Flat Lakes Fire in 2021. Slope average 11%. The understory regen layers have been removed from the stand or severely damaged due to wildfire. Windthrow was minimal throughout the SU at the time of layout.

SOIL MANAGEMENT COMMENTS	
Soil Conservation	
Soils within this block are medium textured with minor amounts of coarse fragments, and are predominantly non-sensitive (loamy), therefore the soil disturbance limit is set at 10% of the NAR. There are no PAS associated with this development. TAS accounts for 6.4% of the NAR. The licensee is responsible for ensuring the maximum soil disturbance limits are not exceeded. All access structures will be managed to ensure natural drainage patterns are maintained and erosion measures are installed prior to spring freshet. Recommend using a random skidding pattern and avoid skidding across depressional areas when wet. This block is consistent with sections 35 and 36 of the FPPR.	
Temporary Access	
All temporary structures must be rehabilitated upon harvest completion, or at least prior to the spring freshet. Rehabilitation will be as follows: decompact soils, and return displaced surface soils, retrievable side-cast and berm material to the extent practicable and necessary to establish and grow trees consistent with the stocking standards.	
Slope Instability	
No instability indicators were noted.	

RIPARIAN ASSESSMENTS					
Management Strategies					
There are no riparian features associated with this development. Maintain natural drainage patterns. See Results and Strategies section - Riparian Management.					
Riparian I.D. and Class	RMA	SU	WIDTH (m)	BA or SPH Retained	Comments (Indicate if in a Community Watershed)

COARSE WOODY DEBRIS MANAGEMENT STRATEGY INFORMATION				
The stands in this block have been severely impacted by the 2021 wildfires and there is heavy mortality throughout. Avoid disturbance of pre-existing CWD where practicable. Post harvest CWD target is 4m3/ha. General CWD management is prescribed as follows: - Retain >/=4 logs per hectare, each being a minimum of 2m in length and 7.5cm at one end. - 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 cutblock. - Non-merchantable logs and pieces will be left on site as CWD. - Reserved stems will contribute to future CWD and any non-insect infested reserve trees that blow down will be left for coarse woody debris. - All deciduous stems felled for safety, road construction, or other operational purposes are to be left on site as CWD. - Retain 3 to 4 Stub Groups (5 or more stubs per group, 3-5m high) per hectare. These stub groups should be created near and/or connecting riparian areas, green leave trees and/or regen, adjacent green stands/plantations, large CWD logs left after burn, large rocks and/or outcrops, and knolls. The following CWD retention is prescribed as general furbearer management to provide resting habitat, connectivity and cover: - Retain >/=1 single hard log per hectare, each being >35cm in diameter and >7 m in length,and elevated 25-50 cm above ground. If trees >35 cm do not occur in the harvest area, 2 or more smaller trees totalling >35 cm diameter may be placed alongside each other and elevated 25-50 cm above ground. - Create >/=1 debris pile per hectare, each being >/=3m wide by >/=5m long and piled >/=2m high, using the largest woody debris available on site. - Debris piles should be located >/=20m from the timber edge, but within 200m of riparian management areas and block edges to maintain connectivity. Pile locations should aim to maintain a 50m dash distance between cover (standing timber, WTRAs, and debris piles). - Actual pile locations may vary but should adhere to the above connectivity conditions.				
Performance Std. (%) :	100.0	Block Target (%):	100.0	Coarse Woody Debris (m3/ha): 4.0

DEFINITIONS

ADMINISTRATION

Amendment number	Date Typed (Yr Mo Dy)	Map Required?
ORIGINAL	2023 02 14	YES

Print off the PAS/TAS table located as an attachment on the Block Details Screen and attach to this prescription.

RPF PRINTED NAME	RPF'S SIGNATURE and SEAL
SARAH REMPEL	
DATE SIGNED	
2023/02/14	
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.	

SILVICULTURE PLAN

ORIGINAL

LICENCE #	CP	BLOCK	UBI	OPENING NUMBER	FDU	LOCATION	LATITUDE / LONGITUDE
TA2093	-	MSAMW	BEAMW		100 Mile FDU	Gustafsen FSR (1100rd)	51 39 25 / 121 37 33

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	20.29	IDF	dk	3	01-100	1,180	11	F	Level	47	SL

STOCKING REQUIREMENTS				
ASSESSMENT DATES				
Standard Unit	Standards ID	Regen Delay (yrs)	Freegrow Early (yrs)	Freegrow Late (yrs)
1	1060387	7	0	20
Min/Max Elevation Regime: 1170 / 1190				

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		Max		10000											
Pli	Lodgepole Pine - Interior	1.4		Lw	Western Larch	2.0		WELL SPACED TREES (sph)															
				Sx	Hybrid Spruce (SE x SW)			Target Pref/Acc		Minimum Pref/Acc		Minimum Pref	Min Horizontal Dist. Pref/Acc (m)										
				Py	Yellow Pine			1200		700		600	2.0										
								Height Relative to Competition (%)															
Fdi	Douglas Fir - Interior	1.0																					

OTHER REQUIRED STOCKING INFORMATION
There are areas within the block that have a moderate cover of surfical rock. A plantability survey is recommended in these areas to determine if the MITD should be reduced.

ACTIVITIES

PLANTING						
Planting(Container) 2025/08/15 SEASON:						
AREA	PLANTING UNIT	UNIT AREA	SPECIES	COMMENTS	STEMS / HA	TOTAL STEMS
24.5	0	0.0			0	0
	LIMITING FACTORS / COMMENTS					

SILVICULTURE ACTIVITY COMMENTS	
ACTIVITY	COMMENT

MANAGEMENT STRATEGY

COARSE WOODY DEBRIS MANAGEMENT STRATEGY INFORMATION			
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The following CWD retention is prescribed as general furbearer management to provide resting habitat, connectivity and cover: - Retain >/=1 single hard log per hectare, each being >35cm in diameter and >7 m in length,and elevated 25-50 cm above ground. If trees >35 cm do not occur in the harvest area, 2 or more smaller trees totalling >35 cm diameter may be placed alongside each other and elevated 25-50 cm above ground. - Create >/=1 debris pile per hectare, each being >/=3m wide by >/=5m long and piled >/=2m high, using the largest woody debris available on site. - Debris piles should be located >/=20m from the timber edge, but within 200m of riparian management areas and block edges to maintain connectivity. Pile locations should aim to maintain a 50m dash distance between cover (standing timber, WTRAs, and debris piles). - Actual pile locations may vary but should adhere to the above connectivity conditions.			
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	2023 02 14	YES

RPF PRINTED NAME	RPF'S SIGNATURE and SEAL
SARAH REMPEL	
DATE SIGNED	
2023/02/14	
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.	