

CP BB- 181

2018 SITE PLAN

ADMINISTRATION														
Operating Area: Woodlot 1996		Licence: W1996 CP: BB Block: 181												
Opening Number: 93B090-														
Photo No.: ---		Prescription Gross Area:												
Location: Carter Road		25.16												
		WTP: 1.86												
District: Quesnel		Total Opening Area: 23.3												
Region: Southern Interior Forest Region		Nat. NP Area: 0.00												
Licencee: ARE Trees Ltd., Robertson Lake Timber Ltd.		Perm. Access Structures Area (Est): 0.67												
Previous Stand: SF(BI) 731 SI: 24		Net Area to be Reforested: 22.6												
SOIL CONSERVATION														
Areas finalized by GPS June 2016. Lisa processed to Results.														
DISTURBANCE, DISPLACEMENT, HAZARD RATING	This plan is consistent with the results and strategies listed in the Woodlot License Plan.													
	Hazards		SU 1	SU 2										
	Compaction		H											
	Displacement		M											
	Erosion		H											
	Max % of the NAR that may be Occupied by Soil Disturbance, excluding the any area covered by a roadside work area		10											
	A terrain stability field assessment ☐ has been completed ☒ is not required This plan is consistent with the results and recommendations of the assessment, and ensures that harvesting will not contravene Section 37 Forest Planning and Practices Regulation													
	Comments: Flat, gentle rolling.													
	Maximum Percent of Total Opening Area Allowed for by Permanent Access Structures: 8.0% Permanent Access Structures (Percent of the cutblock area): 0.0% Of NAR not gross. <i>Actual soil disturbance will be minimized by using appropriate harvesting machinery during suitable operating conditions.</i> <i>The soil disturbance of the roadside work area will not exceed 25%.</i>													
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Other Soil Conservation														
Comments:														
BIODIVERSITY MANAGEMENT														
Coarse Woody Debris: n/a														
Landscape Level Biodiversity:		Will the new portion of cutblock area with BA retention < 40%, along with the area of adjacent non-conforming portions in adjacent cutblocks ("green-up") be > 60ha? ☒ Yes ☐ No. <i>The openings covered under this site plan will contribute to non-greened up opening greater than 60ha.</i> <i>The openings in this site plan are located within the Victoria Landscape unit SBS NTD 3 zone and will contribute to patch size category 81ha or greater although the main area is close to or at FTG (625-2). This opening has been created to salvage damaged timber infested with beetles and fresh blowdown from March 2017. We have heli photos fall 2017 (attached) and recce notes to support our rationale.</i> <i>There is green attack and red attack spruce beetle and Douglas-fir beetle in this salvage. The surrounding area mature spruce and Douglas-fir. We have no choice but to salvage this priority timber as it occurs, and we do so tight to the damaged areas.</i> This plan is consistent with the results and strategies listed in the Woodlot License Plan.												
Stand Level Biodiversity :		A 1.86 ha WTP related to this opening, meeting the 7% requirement for the ndt/landscape unit has been established and indicated on the attached map. Western redcedar, birch and large cottonwood has been noted sparsely in the area. Retain the western redcedar and large cottonwood, where operationally feasible, if it occurs within the openings. Some understory balsam and spruce will be left as well but is not desirable. Two green dash patches will be left in the main block at 6.0 km 'patch F'.												
WTP Description:	Species Composition (by %)	AGE CLASS	HEIGHT CLASS	CROWN CLOSURE %	SITE INDEX	DENSITY (Stems/ha)	Reference Year							
Wildlife Tree Patches	Generally Sx 40 Fd 10 Ac 10 At 10 Bl 30	7	4	50	24	500	2017							
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Old Growth		Are there any changes to the Old Growth Management Areas? ☐ Yes ☒ No ☐ NA												

Management Areas:

This plan is consistent with the results and strategies listed in the Woodlot License Plan. There are no OGMAs associated with this harvest.

RIPARIAN MANAGEMENT

There are no harvesting or other related forest practices proposed in a riparian reserve zone or a riparian management zone.

Riparian	Class	Windthrow Hazard	Residual Stems Per Ha or Other Basal Area to be Retained in RMA/Other Management Strategies

A riparian assessment

☒ has been completed

☒ is not required

Other Comments:

S. Lebeck completed the overview assessment to determine there are no classifiable riparian features associated with this salvage operation.

FOREST HEALTH

PEST	Pest Species Present:	Douglas-fir bark beetle and spruce bark beetle and dying old age spruce. All pine is dead from Mountain pine beetle.
	Pest Data Information (incidence or damage data)	The beetle is in re occurring areas of repeated attempts to take out green attack. Areas of blowdown have both IBS and IBD.
	Actions Proposed:	Clearcut with reserves.
WINDTHROW	Hazard:	High – there is windthrow associated with the area. The spring and fall storms of 2017 caused the blowdown we are salvaging this entry. It's fresh and captures the best value before degrade. There is spruce and fir beetle in the windthrow.
	Actions Proposed:	Harvest damaged timber, monitor new events, and stay current in salvage through One CP. We are also going to leave a leading edge buffer on one spot, which may need to be harvested if it blows down. The buffering is attempting to lift/block the wind with as a fence that is wind tested. We want to create a wind lifting buffer that does not attract beetles.

ECOLOGY

Ecology	SU 1	SU 2	SU 3
Subzone/Variant	SBSmw		
Assoc/Site Series	01 (04)		
NCBR Ha	0		
Humus Form	mor		
Humus Depth	4		
Texture	SiL		
Aspect	Vari		
Elevation Range (m)	1000		
Slope Avg/Range (%)	8 / 0-15		
Slope Pos (Macro/Meso)	Mid to level		
CF% Avg/Range	30 / 20-50		
Depth to Unfavourable Subsoil (cm)	<60cm		
Depth to Water Restricting Layer (cm)	>60cm		

Silviculture System: Clearcut with reserves.

Comments: For the standard unit, refer to the Stocking Standards approved Woodlot License Plan 2012.

INTEGRATED RESOURCE MANAGEMENT

Woodlot License Plan Consistency – Section numbers refer to the objectives as listed under the Woodlot License Plan. Actions (if any) identify how the intended results or strategies described in the forest stewardship plan apply to the site.

Sec 33, 34 Grizzly Bear	☒ apply to this site plan	☐ do not apply to this site plan
Actions (if any) to manage Grizzly Bear	Woodlot License Plan strategies are being followed.	
Sec 32 Species at Risk:	☒ apply to this site plan	☐ do not apply to this site plan
Actions (if any) to manage Species at Risk:	If any species at risk are identified during harvest operations, the Woodlot License Plan strategy will be followed.	
Range:	Has the associated range unit been identified as not having adequate range opportunities to meet the associated AUM's as a result of forest management activities?	☐ Yes ☒ No
Actions (if any) to manage for range:	None required with this operation.	
Cultural Heritage Resources: If a previously unidentified cultural heritage resource feature is encountered during harvesting or road building activities, operations will cease to the extent necessary to protect the feature until an archaeological evaluation can be done.		
Archaeological Sites: An archaeological evaluation ☒ has been completed ☐ is not required In the fall of 2016, a complete Woodlot 1996 AIA was completed by Stantec.		
Actions (if any) to Manage and Conserve n/a		
Archaeological Sites: Non-Archaeological Cultural Heritage Nothing has been detected of importance.		
Resources: Protocols that are in place have been followed for the applicable first nation(s) ☒ Yes OR In the absence of such protocols, then A 60 day referral to MoF and the applicable first nation(s). ☒ has been completed ☐ is not required Woodlot 1996 One CP.		
Invasive Plants Where grass seeding is done, seed mixes that do not contain primary noxious weed species will be used to re-vegetate erodible soils covered under this plan as per Woodlot License Plan commitments. Completed May 2016 when the road was built. Reseeded in May of 2018.		
Natural Range Barriers Development of this site ☐ Will ☒ Will not remove or render ineffective a natural range barrier identified by the range holder or the Ministry of Forests and Range. Details:		

SIGNATURES

Field Assessment Completed By:	Stuart Lebeck, RPF	Date:	October 2017
Form Completed By:	Stuart Lebeck, RPF	Date:	February 2018
Attachments: ☒ 1:10,000 SP Map ☒ Rationales	Licensee Acknowledgement of Commitment And Licensee RPF's Signature  18/5/29 Date Signed (Y/M/D)		

RATIONALES, FURTHER DETAILS

Site plan area, RESULTS follow up:

- ✓ Block 181 units will be submitted into RESULTS by Lisa in spring 2018-2019. Trees are sowing for planting in 2019-2020.
- ✓ A 1.86 ha WTP is selected and associated with this SP. It will also be placed onto GOOGLE EARTH WTP layer.

Snip and Skid operations, monitoring progressive salvage operations for RESULTS entry requirements and compliance:

We know more operations are going to be required in these areas for beetle and blowdown. These are Douglas-fir IBD or dead spruce.

In Block Road CP BB: Under Authority of the Cutting Permit to Build Block Road

The road used through **Unit 181 etc** is long term mainline in Woodlot 1996. The total chance plan I have created shows this.

- ✓ These roads are be amended into the Woodlot 1996 Road permit.

Fire Guards

There are no new fire guards associated with this BB-181 etc plan. But some remote access trails are planned to be developed in the north end to areas of no access and hard walking for pine layer fall down.

The harvesting on this year is consistent with the 2012 Woodlot 1996 License Plan.