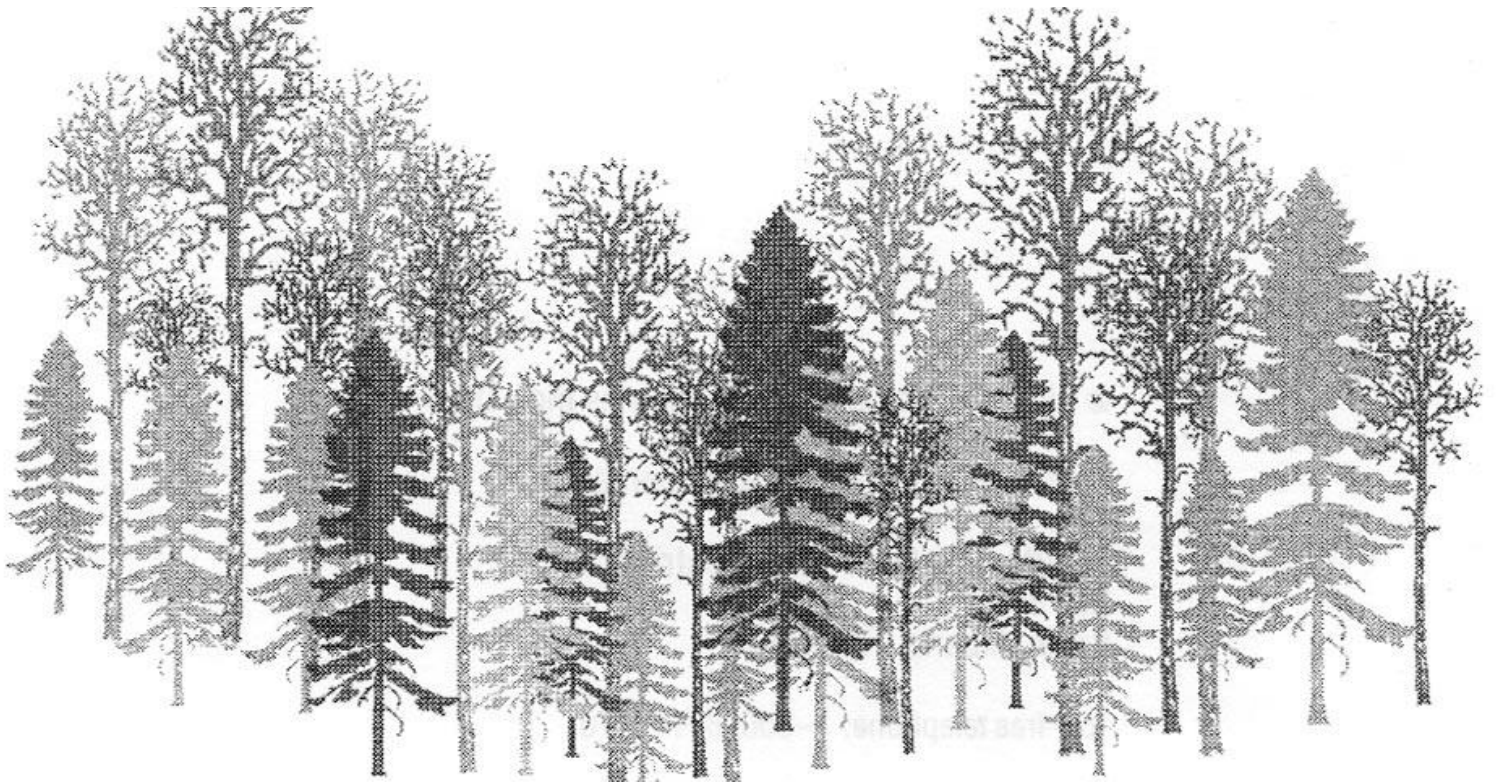


**ALBERTA  
PACIFIC**  
FOREST INDUSTRIES INC

# **Forest Harvest Plan**



**Planning Unit 084064**

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# **Planning Unit 084064**

## **Forest Harvest Plan**

### **1. Introduction**

This Forest Harvest Plan (FHP) for fire damaged stands within Planning Unit 084064 includes maps and reports that clearly show and document the planned harvest area boundaries, roads and water crossings within the planning unit.

This plan is being submitted for appraisal, for a 5-year FHP approval under the 2016-17 Alberta-Pacific Forest Industries Inc. (Alberta-Pacific) Annual Operating Plan (AOP).

This plan has been developed following the objectives outlined in the Horse River Fire salvage plan approved on August 31, 2016.

The north boundary of this planning unit follows the Forest Management Unit (FMU) L11 and A14 boundary. The stands there split along the boundary will be tracked for their respective FMU.

This FHP has been discussed with Alberta Agriculture and Forestry (AAF).

### **2. Planning Unit Specific Comments**

Planning Unit 084064 is located along and north of the La Loche Road.

The planning unit is located in FMU L11. Alberta-Pacific has rights to D and DC as deciduous landbase and, CD and C as coniferous landbase. Quota holder agreement is not required.

#### **Watershed**

The Christina river and unnamed creeks in Sections 17, 18, 20, 21, 28, 32, and 33 of Township 084-05-4, and Sections 2, 4, 9, 10, 14, 15, 21 and 22 of Township 084-06-4, and Section 36 of Township 084-07-4 have been identified as a fish bearing and navigable watercourse.

All unsurveyed channeled creeks have been buffered and crossed as though they were fish bearing.

#### **Stand Structure**

An average of 10% of the merchantable volume will be left in stand structure within the planning unit. The structure will be left as layout patches, as small clumps of timber at the operators' discretion and proximal and riparian retention outside of the block.

Stand structure has been planned (delineated) in the larger blocks to create larger residual areas. These areas are identified as Retention Areas (RAs) within the lists and on the maps. These blocks have a 9 at the end of the block number.

### Debris Management

Some of the blocks in this unit are outside FireSmart Community Zones as identified by AAF. One or more of the following debris management strategies apply for blocks within this planning unit:

- Methods described in the Forest and Prairie Protection Act and Regulations, and/or
- Thinly spread slash throughout the block.

Blocks outside of FireSmart Community Zones are:

08406404491	08406409281	08406409421	08406409481
08406409631	08406409641	08406416431	08406422771
08406423531			

Blocks within this planning unit will not utilize the retention of debris piles as a management strategy.

The deciduous utilization standard will be 15/10. The coniferous utilization standard will be 15/11.

### Design Comments

During the layout phase of this operation, Alberta-Pacific looked for signs of insect or disease infestations. No signs were detected.

### Stand Structure Summary

Proximal Retention (ha)	Proximal Retention %	Riparian Retention (ha)	Riparian Retention %	Block Total (ha)
6.7	2.5	0	0	272

### 3. Block Information

#### Alberta-Pacific Deciduous First Entry Block Listing

(Values Affected by Rounding)

Source Id	Opening Num	Harv Season	Conif Charge	Detail Plan	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
08406404491	4060840449	NF			5	687	13	57	757
08406409281	4060840928	NF			24	2,866	208	614	3,688
08406409421	4060840942	F			4	689	0	37	726
08406409481	4060840948	NF			4	510	64	132	706
08406409631	4060840963	NF			5	586	0	106	692
08406409641	4060840964	NF			4	582	0	27	609
08406415381	4060841538	NF			8	1,110	0	79	1,189
08406416431	4060841643	NF			3	446	0	14	460
08406421691	4060842169	F			35	4,065	675	658	5,398
08406422711	4060842271	NF			16	2,401	0	81	2,482
08406423531	4060842353	NF			31	4,373	166	487	5,026
08406426891	4060842689	F			36	4,373	582	882	5,837
08406428241	4060842824	F			10	1,414	0	116	1,527
08406428741	4060842874	F			4	519	0	60	579
08406433891	4060843389	NF			5	544	11	83	638
08406434241	4060843424	NF			9	1,520	0	84	1,604
08406434481	4060843448	NF			21	2,817	29	216	3,062
08406435281	4060843528	NF			43	5,668	259	712	6,639
08407436521	4070843652	NF			1	188	0	20	208
08407436811	4070843681	NF			5	659	0	91	750
<b>Total</b>					<b>272</b>	<b>36,014</b>	<b>2,007</b>	<b>4,556</b>	<b>42,577</b>

#### Alberta-Pacific Coniferous First Entry Block Listing –

##### White Spruce

(Values Affected by Rounding)

Source Id	Opening Num	Harv Season	Conif Charge	Detail Plan	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
08406435841	40608435841	F			2	107	250	0	357
<b>Total</b>					<b>2</b>	<b>107</b>	<b>250</b>	<b>0</b>	<b>357</b>

**Retention Area Listing**  
(Values Affected by Rounding)

Retention Id	Structure	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
09499	Proximal	1.0	0	0	0	0
16419	Proximal	1.0	0	0	0	0
21779	Proximal	0.6	0	0	0	0
23339	Proximal	1.9	0	0	0	0
25289	Proximal	0.5	0	0	0	0
34979	Proximal	0.8	0	0	0	0
35299	Proximal	0.9	0	0	0	0
<b>Total</b>		<b>6.7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### 4. Access and Road Information

Landuse agreements will be in place prior to using any third party dispositions.

##### Planning Unit Temporary Road Information

Roads accessing PU 085064 through PU 084064 have been submitted with PU 085064 and are not listed below.

##### Inter Block Roads and Crossings

Road No.	Class	Length (Km)	Construction Season	Crossing Location	Field Call	Navigability
04491	4S	0.02	Non-frozen			
09281	4S	1.67	Non-frozen			
09421	4S	0.01	Frozen			
09481	4S	0.08	Non-frozen			
09631	4S	0.01	Non-frozen			
09641	4S	0.47	Non-frozen			
15381	4S	0.01	Non-frozen			
16431	4S	0.07	Non-frozen			
21691	4W	1.83	Frozen	2187	E	U
				2871	E	U
22711	4S	1.31	Non-frozen			
23531	4S	2.02	Non-frozen	2266	I	U
26891	4W	1.64	Frozen	2519	E	U
				2699	E	U
				3564	T	U
28241	4W	1.06	Frozen	2826	E	U
28741	4W	0.28	Frozen			

**Inter Block Roads and Crossings (Cont.)**

<b>Road No.</b>	<b>Class</b>	<b>Length (Km)</b>	<b>Construction Season</b>	<b>Crossing Location</b>	<b>Field Call</b>	<b>Navigability</b>
33891	4S	0.04	Non-frozen	3398	E	U
34241	4S	0.47	Non-frozen	3424	E	U
34481	4S	0.26	Non-frozen			
35281	4S	3.04	Non-frozen	3557	E	U
35841	4W	0.37	Frozen			
36811	4S	0.20	Non-frozen			
<b>Total Class 4W:</b>		<b>5.18</b>				
<b>Total Class 4S:</b>		<b>9.77</b>				
<b>Total Class 4P:</b>		<b>0</b>				

In the above table, possible “Field Call” channelled watercourse classifications are ephemeral (E), intermittent (I), transitional (T), small permanent (SP) or no channelled watercourse (NW). The “Navigability” rating identifies channelled watercourse as being potentially navigable (N) or potentially unnavigable (U) based on the possibility of traveling the stream with a vessel. The “Field Call” channelled watercourse classifications in the above table are based on Table 1 of the 2014 Northeast Alberta Operating Ground Rules (OGRs) at the time, and during the conditions, when layout was conducted.

**5. Non Timber Values**

**Public Involvement**

Once this plan is approved it will be available for viewing on the Alberta-Pacific website [www.alpac.ca](http://www.alpac.ca).

**Aboriginal Consultation**

Aboriginal Consultation for proposed fire salvage areas was completed on Aug 23, 2016.

No concerns have been identified so far.

**Trappers**

The holders of the following Registered Fur Management Areas (RFMA) have been contacted regarding harvesting activities within Planning Unit 084064:

0464	1643	1783	1898
1998	2013	2632	

No concerns have been identified through the Trapper Consultation process to date.

### **Guides and Outfitters**

The holders of the following permits within Wildlife Management Unit (WMU) 519 and 529 have been notified of Alberta-Pacific's harvest plans within Planning Unit 084064:

- 0026      - 0344      - 0429      - 0446      - 0483  
- 0541      - 0709      - 0818      - 0858      - 0861  
- 0923      - 1023      - 1124      - 1160

No concerns have been identified through the Guide and Outfitter Consultation process to date.

### **Forest Recreation Groups**

There are currently no active forest recreation groups with interests within this planning unit.

### **Historical Resources**

Known historical resource sites have been addressed within this plan.

### **Forest Aesthetics**

No concerns have been identified.

### **Land Use**

As per a review of the Alberta Government's Digital Integrated Dispositions (DIDs) digital mapping program on August 2, 2016 and Alberta-Pacific's land use files from Evergreen Land Use Consulting on July 4, 2016, there are currently no dispositions within this planning unit that restrict harvesting timber.

### **Wildlife**

Portions of the planning unit are within Caribou Range. Operations will adhere to the Alberta-Pacific Caribou Protection Plan submitted annually in the fall.

Portions of the planning unit are within a key Wildlife and Biodiversity Zone. Operations will adhere to Section 7.7.5 of the OGRs.

No areas of concentrated terrestrial lichens were identified during layout.

All known sensitive wildlife sites have been buffered according to section 7.7.6.2 of the OGRs. These buffers have been placed into RAs.

### ***Access and Access Management***

Existing access has been utilized where possible to minimize the clearing of new RoW.



The following policy has been implemented to mitigate access management concerns:

- Temporary road systems will be closed as soon as possible after the harvesting, hauling, and silviculture activities have been completed.

## 6. Silviculture Information

The following table outlines the initial silviculture declarations for FHP blocks within Planning Unit 084064. Cover group balanced declarations will be submitted post harvest.

### Alberta-Pacific Silviculture Declarations

Source Id	Opening Num	Area (ha)	Std_ Mod	Open_ Desig	Species_ Gr	Silv_ Harv
08406404491	4060840449	4.9	D	HH	DE	CC
08406409281	4060840928	22.0	D	HH	DE	CC
08406409421	4060840942	4.4	D	HH	DE	CC
08406409481	4060840948	4.4	D	HH	DE	CC
08406409631	4060840963	4.5	D	HH	DE	CC
08406409641	4060840964	4.2	D	HH	DE	CC
08406415381	4060841538	7.9	D	HH	DE	CC
08406416431	4060841643	2.7	D	HH	DE	CC
08406421691	4060842169	34.5	D	HH	DE	CC
08406422711	4060842271	16.3	D	HH	DE	CC
08406423531	4060842353	31.0	D	HH	DE	CC
08406426891	4060842689	35.6	D	HH	DE	CC
08406428241	4060842824	10.1	D	HH	DE	CC
08406428741	4060842874	3.7	D	HH	DE	CC
08406433891	4060843389	4.8	D	HH	DE	CC
08406434241	4060843424	9.5	D	HH	DE	CC
08406434481	4060843448	20.6	D	HH	DE	CC
08406435281	4060843528	42.6	D	HH	DE	CC
08406435299	4060843529	1.3	D	HH	DE	CC
08406435841	4060843584	2.1	CD	CC	MX	CC
08407436521	4070843652	1.3	D	HH	DE	CC
08407436811	4070843681	5.1	D	HH	DE	CC

In the above table, the codes for “Std\_Mod”, “Open\_Type”, “Species\_Gr” and “Silv\_Harv” are as per the Alberta Regeneration Information System (ARIS) domain codes. “AV” under “Open\_Desig” is not an ARIS code but is used internally for the tracking of understorey avoidance blocks. If a block contains adequate amounts of Balsam Fir, so that fir is an acceptable coniferous regeneration species, a code of FA is used in the “Species\_Gr”.

All deciduous blocks will be Leave for Natural (LFN). All coniferous blocks will be treated as per Appendix 4, of the Forest Management Plan (FMP).

## 7. OGRs Variances

### Blocks

Block 08406434241 boundary borders a lake less than 4.0 hectares in size and a 30 meter buffer has been utilized.

Blocks 08406409631 and 08406435841 were too small or narrow to achieve 10% structure retention.

The following table identifies blocks greater than 7.0 ha that may exceed 5% road disturbance once turnabouts are constructed.

<b>Road Percent</b>		
<b>Source Id</b>	<b>% Road Class</b>	<b>Comments</b>
08406409281	6	Extra road required; access to other blocks.
08406415381	6	Narrow block and/or irregular shaped block.
08406422711	5	Narrow block and/or irregular shaped block.
08406423531	5	Extra decking space due to large timber and/or high volume.
08406426891	6	Narrow block and/or irregular shaped block.
08406428241	5	Narrow block and/or irregular shaped block.
08406434241	9	Extra decking space due to large timber and/or high volume.
08406434481	6	Extra road required; access to other blocks.
08406435281	5	Extra road required; access to other blocks.

The percent road class values have been achieved by rounding the road disturbance percent to the nearest whole number.

## Roads

### Roads Close to Watercourses

Road No.	Grid Location	Base Info	Field Call	Distance of Watercourse From Road	Habitat Rating
21691	2871	LL	LL	200	U
22711	2232	LL	LL	200	U
26891	2519	LL	LL	200	U
34241	3424	SL	SL	200	U

The “Distance of Watercourse From Road” is the minimum distance allowed in Table 2 of the OGRs without AFF approval. The roads listed are within those minimum distances. Please refer to the FHP map and layout block maps for more information.

In the above table, possible “Base Info” watercourse classifications are indefinite (E), intermittent (I), perennial (P), unmapped (UM), lake < 4 ha (SL) or lake ≥ 4 ha (LL). The possible “Field Call” watercourse classifications are intermittent (I), transitional (T), small permanent (SP), large permanent (LP), lake < 4 ha (SL), lake ≥ 4 ha (LL). The “Habitat Rating” identifies watercourses surveyed as fish bearing or potentially fish bearing (SF), surveyed as non-fish bearing (SN) or unsurveyed (U). The “Field Call” watercourse classifications in the above table are based on Table 1 of the OGRs at the time, and during the conditions, when layout was conducted.