



**ALBERTA**  
**PACIFIC**  
**FOREST INDUSTRIES INC**

Alberta-Pacific Forest Industries  
Inc.

Forest Harvest Plan

Forest Management Unit:

**Lo1**

**Forest Harvest Plan- PU070134**

FMA 9100029

Date Submitted: June 4, 2019

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# Forest Harvest Plan

Planning Unit 070134

## Contents

<b>1.0 Introduction .....</b>	<b>5</b>
<b>2.0 General Planning Unit Information /Design Considerations</b>	<b>5</b>
2.1 Operating Ground Rules .....	5
<b>3.0 Maps .....</b>	<b>5</b>
<b>4.0 Block Information.....</b>	<b>6</b>
4.1 Field verification.....	6
4.2 Understory Assessment .....	6
Table 1: Block Summary Table .....	7
4.3 Structure Retention .....	7
4.4 Debris Management .....	7
4.5 Camp Location .....	8
<b>5.0 Watercourse Protection .....</b>	<b>8</b>
Table 2: Watercourse Crossing Summary.....	8
<b>6.0 Road Information .....</b>	<b>8</b>
Table 3: Road Attributes.....	9
<b>7.0 Land Use Information .....</b>	<b>10</b>
Table 4: Land Use Summary Table .....	10
<b>8.0 Integration with Other Forest Users .....</b>	<b>11</b>
8.1 Integration with Other Harvest Operators .....	11
8.2 Registered Fur Management Areas (RFMAs).....	11
Table 5: Trapper Areas Table .....	11
8.3 Wildlife Management Unit(s) (WMU) .....	11

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Table 6: Guide and Outfitters.....	11
8.4 Indigenous Groups .....	12
8.5 Other Forest Users.....	12
8.6 Forest Aesthetics.....	12
<b>9.0 Species and Areas of Concern .....</b>	<b>12</b>
9.1 Woodland Caribou .....	12
9.2 Key Wildlife and Biodiversity Zone (KWBZ).....	12
9.3 Other Species .....	12
9.4 Sensitive Sites .....	12
9.5 Forest Health.....	13
<b>10.0 SHS Information / Variance Summary.....</b>	<b>13</b>
<b>11.0 OGR Deviations.....</b>	<b>13</b>
<b>12.0 Validation by Registered Forest Practitioner.....</b>	<b>13</b>

## List of Tables

Table 1: Block Summary Table.....	7
Table 2: Watercourse Crossing Summary.....	8
Table 3: Road Attributes .....	9
Table 4: Land Use Summary Table.....	10
Table 5: Trapper Areas Table.....	11
Table 6: Guide and Outfitters .....	11
Table 7: Road Percent Deviations Table.....	13

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## **Appendices**

**Appendix 1- FHP Block Maps**

**Appendix 2- FHP Overview Maps**

**Appendix 3- Spatial Harvest Sequence Summary Tables**

**Appendix 4- Spatial Harvest Sequence Summary Map**

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# Report

## **1.0 Introduction**

Alberta-Pacific Forest Industries Inc. (Alberta-Pacific) has prepared a Forest Harvest Plan (FHP) for the harvest of stands within Planning Unit 070134.

Planning Unit 070134 is located North of Lac La Biche within Forest Management Unit (FMU) L01

Copies of this Forest Harvest Plan are available on the Alberta-Pacific website, at [www.alpac.ca](http://www.alpac.ca).

## **2.0 General Planning Unit Information /Design Considerations**

This FHP has been validated by a Registered Forestry Professional from Alberta-Pacific.

This FHP 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 2019-2020 Alberta-Pacific Annual Operating Plan (AOP).

### 2.1 Operating Ground Rules

Planning Unit 070134 has been designed in accordance with the Northeast Alberta Operating Ground Rules (OGRs). Alberta-Pacific is requesting certain deviations from the OGRs, due to field verified factors. These requests, along with corresponding information are listed under the section “OGR Deviations”.

## **3.0 Maps**

Individual block maps have been included in the submission package, outlining the information pertinent to these blocks. A Planning Unit overview map and a Spatial Harvest Sequence (SHS) Planning Unit map have been included in the submission package. These maps can be viewed in the *Appendices* of this document.

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## **4.0 Block Information**

A *Block Summary Table* has been included below outlining the expected volumes of the harvest area.

### 4.1 Utilization

Deciduous and coniferous stands will adhere to the 15/10 utilization standard.

#### 4.1 Field verification

The proposed blocks were ground verified by a field layout team during the spring of 2019. The layout team provided planning support to assess timber quality, sensitive and historical sites, operability of the harvest area, and classification of water courses within the Planning Unit boundary. Where applicable, the findings of the layout team have been noted in the corresponding section of this report.

#### 4.2 Understory Assessment

White Spruce understory within deciduous landbase will be protected utilizing high effort understory protection in stands identified as greater than 600 stems/ha by the Alberta Vegetation Inventory (AVI), as well as any potential areas found to have understory present that is not identified by the AVI. Any deciduous blocks found to have understory amounting to between 400 stems/ha and 600 stems/ha will be protected utilizing the avoidance method.

Blocks requiring understory protection or understory avoidance are noted within the *Block Summary Table*.

## Block Summary Table

(Values rounded to whole numbers)

**Table 1: Block Summary Table**

This table provides a brief description of the proposed harvest blocks within the Planning Unit.

<b>Alberta-Pacific Deciduous Blocks</b>						
<i>Source ID</i>	<b>Opening Number</b>	<b>Harvest Season (Frozen/ Non-Frozen)</b>	<b>Area (ha)</b>	<b>Deciduous Volume (m<sup>3</sup>)</b>	<b>Incidental Conifer Volume (m<sup>3</sup>)</b>	<b>Total Volume (m<sup>3</sup>)</b>
FC07012418721	4120701872	N	57.19	11,161	396	11557
FC07013414441	4130701444	N	133.49	24,832	872	25704
FC07013414491	4130701449	N	114	20,527	806	21333
FC07013414561	4130701456	N	7.52	1,157	42	1199
<b>Total</b>			<b>312.2</b>	<b>57,677</b>	<b>2,116</b>	<b>59,793</b>

\*Understory Block: White Spruce understory within deciduous landbase will be protected utilizing high effort understory protection in stands identified as greater than 600 stems/ha. Any blocks found to have understory amounting to between 400 stems/ha and 600 stems/ha will be protected utilizing the avoidance method.

### 4.3 Structure Retention

Alberta-Pacific will leave an average of 5% merchantable volume for structure retention throughout the FMU. Structure retention will be left in the following methods:

- Laid out patches
- Individual trees
- Small clumps left at the operators' discretion

### 4.4 Debris Management

Debris management of the Planning Unit will be accomplished in a manner consistent with Section 7.3 of the OGRs.

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#### 4.5 Camp Location

The companies have identified a camp location for logging operations within this planning unit. The campsite will be reclaimed as indicated in Section 11.3.4.4 of the Northeast Alberta Timber Harvesting Planning and Operating Ground Rules (OGRs).

### 5.0 Watercourse Protection

During the preliminary planning of Planning Unit 070134 potential watercourses were identified using wet areas mapping, LiDAR data, aerial imagery, as well as the available AVI data.

Where harvest blocks are in proximity to any potential watercourses, the field layout team conducted field assessments utilizing the methodology and classification standards outlined in Section 6.0 of the OGRs. Any confirmed watercourses have been buffered in accordance with the OGRs Section 6.0.

Any deviations from the OGRs in relation to the watercourse buffers are noted in this report; please refer to the *OGR Deviations* section of the report for further information.

### Watercourse Crossing Summary Table

Table 2: Watercourse Crossing Summary

A list of road crossings over field verified watercourses within the Planning Unit.

<i>Road ID</i>	<i>Watercourse Classification</i>	<i>Crossing ID</i>
RC07012418721x	Ephemeral	1872

### 6.0 Road Information

Overview maps have been attached showing roads in accordance with Section 3.4.7. of the OGRs; all spatial data requirements have also been included with this submission.

Roads will be constructed, maintained, and reclaimed in a manner consistent with Section 11.3 of the OGRs.

When new access is necessary, reclamation processes will adhere to Section 11.3.4, specifically Section 11.3.4.3 and Section 11.3.4.4 of the OGRs. To enable for silviculture activities, all-terrain vehicle (ATV) access may be left throughout the harvest area.



## Road Attributes Table

(Values rounded to whole numbers)

**Table 3: Road Attributes**

Summary of the proposed in-block roads of the Planning Unit.

<b>Road ID</b>	<b>Road Classification</b>	<b>Haul Season Non-Frozen/Frozen</b>	<b>Length, m</b>
RC07012418721a	Temp	Non-Frozen	680
RC07012418721c	Temp	Non-Frozen	276
RC07012418721x	Temp	Non-Frozen	747
RC07012418721x	Temp	Non-Frozen	1,560
RC07013414441a	Temp	Non-Frozen	1,683
RC07013414441a	Temp	Non-Frozen	1,297
RC07013414441a	Temp	Non-Frozen	853
RC07013414441b	Temp	Non-Frozen	407
RC07013414441c	Temp	Non-Frozen	734
RC07013414491b	Temp	Non-Frozen	695
RC07013414491b	Temp	Non-Frozen	218
RC07013414491b	Temp	Non-Frozen	291
RC07013414491c	Temp	Non-Frozen	608
RC07013414491c	Temp	Non-Frozen	383
RC07013414491d	Temp	Non-Frozen	1,001
RC07013414491f	Temp	Non-Frozen	240
RC07013414491f	Temp	Non-Frozen	241
RC07013414491f	Temp	Non-Frozen	222
RC07013414491z	Temp	Non-Frozen	160
RC07013414491z	Temp	Non-Frozen	204
RC07013414561z	Temp	Non-Frozen	835

RC07012418721a	Temp	Non-Frozen	680
RC07012418721c	Temp	Non-Frozen	276
RC07012418721x	Temp	Non-Frozen	747
RC07012418721x	Temp	Non-Frozen	1,560
RC07013414441a	Temp	Non-Frozen	1,683
Total			13,334

## 7.0 Land Use Information

A search of the Geographic Land Information Management and Planning System (GLIMPS) and Digital Integrated Dispositions (DIDs) yielded active dispositions within the FHP. Any necessary agreements with the disposition holder will be in place prior to the commencement of harvest operations. None of the dispositions within the FHP will restrict harvest operations in the FHP.

### Land Use Summary Table

Table 4: Land Use Summary Table  
Active dispositions in the Planning Unit

Disposition Number
MSL942483
MSL993755
EZE030149
PLA940873
PLA971765
VCE030017
MSL044672

If the FHP design incorporates pipeline crossings, for temporary roads, the agreements will be in place prior to the construction of these crossings.

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## 8.0 Integration with Other Forest Users

### 8.1 Integration with Other Harvest Operators

This is not an integrated plan between the FMA holder and CTL holder.

### 8.2 Registered Fur Management Areas (RFMAs)

There are 4 RFMAs within the FHP who will be affected by operations. Notification letters were sent to the respective RFMA holders, any requests from any RFMA holder have been considered, and, where possible, the harvest design has been planned to accommodate the request.

### **Trapper Areas Table**

Table 5: Trapper Areas Table  
RFMA holders affected by harvest operations.

<b>RFMA ID</b>	<b>Notification Method</b>	<b>Contact Method</b>
2007	Letter	Mail
1399	Letter	Mail
1637	Letter	Mail
2639	Letter	Mail

### 8.3 Wildlife Management Unit(s) (WMU)

The holders of the following permits within WMU 515 have been notified of Al-Pac's harvest plans within Planning Unit 070134

### **Guide and Outfitters Table**

Table 6: Guide and Outfitters  
List of Guide and Outfitters active in WMU's 515.

<b>OG ID Number</b>
0431
0446
0447
0493
0960
1160

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## 8.4 Indigenous Groups

During the General Development Plan (GDP) process, Alberta-Pacific conducts consultations with indigenous groups every year. There have not been any issues identified for the Planning Unit 070134 FHP submission.

## 8.5 Other Forest Users

There are no other forest user groups operating within the Planning Unit area.

## 8.6 Forest Aesthetics

As outlined in Section 5.5. of the OGRs, Alberta-Pacific follow the objective to mitigate the impact of timber operations on the visual quality of the forest landscape. This FHP is not adjacent to any park or recreational areas, and no other aesthetics concerns have been noted to date by other forest users.

## **9.0 Species and Areas of Concern**

### 9.1 Woodland Caribou

Planning Unit 070134 is not located within caribou range zone

### 9.2 Key Wildlife and Biodiversity Zone (KWBZ)

Planning Unit 070134 is located within a Key Wildlife and Biodiversity Zone; all operations will be consistent with Section 7.7.5 of the OGRs

### 9.3 Other Species

All known sensitive wildlife sites have been buffered in accordance with Section 7.7.6.2 of the OGRs.

### 9.4 Sensitive Sites

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A review of the block design and landscape of the FHP was completed by professional archaeologists. Any sites identified as being of high historical significance (historical resource sites) have been removed from the harvest design.

Upon completion of cutblock and road layout, a second review of the harvest blocks, and temporary roads is completed to identify potential conflicts, and to determine if any further changes are required to the Planning Unit.

There were no of rare plants, including signs of terrestrial lichen found within the Planning Unit.

If any sites are identified post submission, Alberta-Pacific will take the appropriate action to protect these sites.

### 9.5 Forest Health

During the field verification, a team evaluated the current state of the forest health in the FHP area, as outlined in Section 10.1 of the OGRs.

If any sites are identified post submission, Alberta-Pacific will take the appropriate action to protect these sites as per Section 10.1.2 of the OGRs.

### **10.0 SHS Information / Variance Summary**

Variances from the Spatial Harvest Sequence (SHS) within the Planning Unit boundary are shown in Appendix 3 - *Spatial Harvest Sequence Summary Table*.

### **11.0 OGR Deviations**

Block 07013414491 is greater than 10 ha and contains >2 ha clumps of  $\geq 600$  stems/ha of White Spruce understorey. However, the area of the understorey is narrow and will not have the understorey protected by avoidance or high intensity understorey protection.

Table 7: Road Percent Deviations Table

Road deviations which contain blocks that are greater than 7 hectares, with potentially more than 5% road disturbance.

<b>Source ID</b>	<b>Opening Number</b>	<b>Road Percentage</b>	<b>Reasoning</b>
RC07012418721	4120701872	5	Narrow/Irregular Block
RC07013414561	4130701456	10	Narrow/Irregular Block

### **12.0 Validation by Registered Forest Practitioner**

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This plan is being prepared and submitted on behalf of Alberta-Pacific Forest Industries Inc.

**ALBERTA-PACIFIC FOREST INDUSTRIES INC.**

A handwritten signature in blue ink, appearing to read 'Jordan Dyck', is positioned above the printed name.

Jordan Dyck, RPFT  
Operations Planner  
Alberta Pacific Forest Industries Inc.