



18-Oct-22

Forest Harvest Plan

PU096074



**ALBERTA
PACIFIC**
FOREST INDUSTRIES INC



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Appendices

Appendix 1- FHP Block Maps

Appendix 2- FHP Overview Maps

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 096074.

The Planning Unit is located within the Surface Movable Area (SMA) of Forest Management Unit (FMU) A16 approximately 20km south-east of McClelland Lake. Primary access to the plan is located on existing roads built to Imperial Oil “Kearl Oil Sands” site in the Regional Municipality of Wood Buffalo.

Copies of this Forest Harvest Plan are available on the Alberta–Pacific website, at 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 2022-2023 Alberta-Pacific Annual Operating Plan (AOP).

2.1 Operating Ground Rules

This Planning Unit is designed in accordance with the Timber Harvest Planning and Operating Ground Rules - Northeast Alberta Regional Area-Specific Addendum (OGRs). After completion of field verified review, no OGR deviations are requested in this harvest plan.

3.0 Maps

A Planning Unit overview map and individual block maps have been included in the submission package, outlining the information pertinent to these blocks. These maps can be viewed in the *Appendices* of this document.

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

4.2 Field verification

Field verification was conducted to assess the timber quality, potential 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.

4.3 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.

There are no blocks requiring avoidance or high-effort understory protection methods in the planning unit.

Block Summary Table

Table 1: Block Summary Table

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

Deciduous Blocks						
<i>Source ID</i>	Opening Number	Harvest Season (Frozen/ Non-Frozen)	Area (ha)	Deciduous Volume (m³)	Incidental Conifer Volume (m³)	Total Volume (m³)
FB09507427201	4070952720	Frozen	2.0	369	17	385
FB09507433811	4070953381	Frozen	27.5	4,776	923	5,699
FB09507435121	4070953512	Frozen	13.0	2,287	811	3,097
FB09507435381	4070953538	Frozen	25.3	4,795	2,168	6,963
FB09607410061	4070961006	Frozen	36.7	7,363	2,141	9,504
FB09607410391	4070961039	Frozen	82.7	18,059	3,043	21,102
FB09607411901	4070961190	Frozen	21.3	2,524	291	2,814
FB09707413641	4070971364	Frozen	74.8	10,259	4,788	15,047
FC09707412551	4070971255	Frozen	534.5	99,520	16,925	116,445
Totals			817.7	149,952	31,106	181,058

Coniferous Blocks						
<i>Source ID</i>	Opening Number	Harvest Season (Frozen/ Non-Frozen)	Area (ha)	Coniferous Volume (m³)	Incidental Decid Volume (m³)	Total Volume (m³)
FB09507427471	4070952747	Frozen	75.0	10,424	6,981	17,405
FB09507427811	4070952781	Frozen	4.2	133	557	690
FB09507434541	4070953454	Frozen	7.5	81	641	722
FB09507434901	4070953490	Frozen	11.0	1,143	1,169	2,312
FB09607412681	4070961268	Frozen	20.5	1,019	561	1,579
Totals			118.2	9,908	12,799	22,707

4.4 Structure Retention

For Alberta-Pacific and Commercial Timber Permits, an average of 5% representative of all harvested area at the FMU level by stewardship reporting period will be retained. A harvest area may have zero structure but the FMU average shall be 5%. Non merchantable structure is not to be tracked as part of the 5%. Structure retention will be left in the following methods:

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

4.5 Debris Management

The Planning Unit is situated within Alberta's Fire Control Zone number 40 as identified by Alberta Agriculture, Forestry and Rural Economic Development (AFRED).

Debris management of the Planning Unit will be accomplished in a manner consistent with the Debris Management Standards for Timber Harvest Operations (AF-FDP-2017-07).

4.6 Camp Location

The companies have identified two (2) camp locations for logging operations within this Planning Unit. The campsites will be reclaimed as indicated in Section 2.12.2 of the OGRs.

SourceID	Opening Number	LATITUDE	LONGITUDE
FB09507427471	4070952747	57.270898	-111.048209
FC09707412551	4070971255	57.387047	-110.982939

5.0 Watercourse Protection

During the potential watercourses were identified during preliminary planning 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 2.17 of the OGRs. Any confirmed watercourses have been buffered in accordance with the OGRs Section 2.17.

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>Crossing ID (Road Crossing Number)</i>	<i>Watercourse Classification</i>
LOC110618	3491	Small Permanent
LOC110934	2611	Small Permanent
LOC110934	2612	Ephemeral
LOC962153	3458	Small Permanent
LOC962153	0351	Ephemeral
RB09507434541	2769	Small Permanent
RB09507434541	2759	Small Permanent
RB09507434901	2607	Ephemeral
RB09607410391	0357	Ephemeral
RB09607410391	1069	Ephemeral
RB09607411901	1191	Small Permanent
RB09607411901	1193	Intermittent
RB09607412681	0378	Ephemeral
RB09607412681	0398	Intermittent
RB09607412681	0399	Small Permanent
RB09607412681	1130	Small Permanent
RB09607412681	1140	Small Permanent
RB09607412681	1174	Small Permanent
RB09607412681	1184	Small Permanent
RB09607412681	1217	Ephemeral
RB09607412681	1341	Small Permanent
RB09607412681	1351	Transitional
RB09607412681	1239	Small Permanent
RC09707412551	3050	Small Permanent
RC09707412551	1949	Small Permanent
RC09707412551	1395	Ephemeral
RC09707412551	1396	Ephemeral
RC09707412551	1398	Ephemeral
RC09707412551	2483	Intermittent
RC09707412551	2494	Transitional
RC09707412551	2495	Transitional

6.0 Road Information

Overview maps have been attached showing roads in accordance with Section 4.1.3.7. 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 2.15 of the OGRs. When new access is necessary, reclamation processes will adhere to Section 11.3.4, Section 11.3.4.3 and Section 11.3.4.4 of the OGRs.

Road Attributes Table

Table 3: Road Attributes

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

Road ID	Road Classification	Haul Season	Length, m
LOC041068	Temp	Frozen	2,451
LOC110618	Temp	Frozen	1,143
LOC110934	Temp	Frozen	363
LOC111734	Temp	Frozen	608
LOC962153	Temp	Frozen	2,691
RB09507427201	Temp	Frozen	36
RB09507427471	Temp	Frozen	4,360
RB09507433811	Temp	Frozen	1,036
RB09507434541	Temp	Frozen	1,148
RB09507434901	Temp	Frozen	696
RB09607410061	Temp	Frozen	2,242
RB09607410391	Temp	Frozen	5,174
RB09607411901	Temp	Frozen	2,169
RB09607412681	Temp	Frozen	6,846
RB09707413641	Temp	Frozen	372
RC09707412551	Temp	Frozen	18,840

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	Disposition Holder	Disposition Type
LOC962153	CENOVUS ENERGY INC.	LOC
LOC110618	CENOVUS ENERGY INC.	LOC
LOC041068	CENOVUS ENERGY INC.	LOC
LOC081569	IMPERIAL OIL RESOURCES LIMITED	LOC
LOC131213	CENOVUS ENERGY INC.	LOC
LOC110934	CENOVUS ENERGY INC.	LOC
LOC111734	CENOVUS ENERGY INC.	LOC

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

8.0 Integration with Other Forest Users

8.1 Integration with Other Harvest Operators

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

8.2 Registered Fur Management Areas (RFMAs)

Notification letter were sent to RFMAs within the FHP who will be affected by operations. Any requests from the RFMA holders 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 ID	Notification Method
1714	Letter
1716	Letter
2172	Letter

8.3 Wildlife Management Unit(s) (WMU)

Planning Unit is located within WMU 530 . The Guides and Outfitters operating within this unit have been sent notification, via registered mail, on the FHP design, as well as a timeline for the commencement of harvest operations. Any requests from Guides and Outfitters have been considered, and, where possible, the harvest design has been planned to accommodate the request. A table with the active Guides and Outfitters in the WMU is included below.

Guide and Outfitters Table

Table 6: Guide and Outfitters

OG ID	Date	Contact Method
Impact Adventures	Jul-22	Letter
Clearwater River Outfitting Ltd.	Jul-22	Letter
Predator vs Prey	Jul-22	Letter
Bowen Lake Outfitters	Jul-22	Letter
Birch Mountain Outfitter	Jul-22	Letter
Three Point Guiding & Outfitting	Jul-22	Letter
Northern Sporting Adventures	Jul-22	Letter
Alberta Prairie Outfitters Inc.	Jul-22	Letter
Kirschner, Martin	Jul-22	Letter
Trophy Book Outfitters 2015 Ltd.	Jul-22	Letter
Extreme Outdoor Guides & Outfitters	Jul-22	Letter
Fiddler, Thomas	Jul-22	Letter
KPL Outfitting Ltd.	Jul-22	Letter
Alberta West Outfitters Ltd.	Jul-22	Letter

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 prior to FHP submission.

8.5 Other Forest Users

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

8.6 Forest Aesthetics

As outlined in Section 4.2.2.1. of the OGRs, Alberta – Pacific follows the objective to mitigate the impact of timber operations on the visual quality of the forest landscape.

9.0 Species and Areas of Concern

9.1 Woodland Caribou

Planning Unit 096074 is not located within Woodland Caribou Range.

9.2 Key Wildlife and Biodiversity Zone (KWBZ)

Planning Unit 096074 is not within a Key Wildlife and Biodiversity Zone.

9.3 Other Species

All known sensitive wildlife sites have been buffered in accordance with Section 2.8.9 of the OGRs.

9.4 Sensitive Sites

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 signs of rare plants found within the Planning Unit. Terrestrial lichen was identified in the plan and impacts mitigated by removing areas of high concentration from the harvest area.

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 2.19 of the OGRs.

If any sites are identified post submission, Alberta – Pacific will take the appropriate action to address these concerns as per Section 2.19.1 of the OGRs.

10.0 SHS Information / Variance Summary

This plan is located in the Surface Movable Area (SMA) which contains no Spatial Harvest Sequence (SHS) within the Planning Unit boundary.

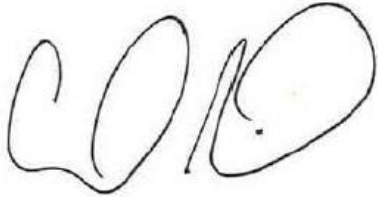
11.0 OGR Deviations

This plan has no OGR deviations to address.

12.0 Validation by Registered Forest Practitioner

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

ALBERTA-PACIFIC FOREST INDUSTRIES INC.

A handwritten signature in black ink, appearing to read 'C. Paranich', with a small dot at the end of the last stroke.

Colin Paranich, RPF 1773
Woodlands Operations Planner
Alberta-Pacific Forest Industries Inc.
Cell: 780-213-4083