
Forest Harvest Plan

Planning Unit 084074

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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 084074.

Planning Unit 084074 is located along the Stoney Valley Road within Forest Management Unit (FMU) L11 under FMA 9100029.

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 2020-2021 Alberta-Pacific Annual Operating Plan (AOP).

2.1 Operating Ground Rules

Planning Unit 084074 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.

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.

4.12 Field verification

The proposed blocks were ground verified by a field layout team. The layout personnel 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.

4.3 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.

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

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: FHP Amendment July 2020						
Source ID	Opening Number	Harvest Season (Frozen/ Non-Frozen)	Area (ha)	Deciduous Volume (m³)	Incidental Conifer Volume (m³)	Total Volume (m³)
FA08407411201	4070841120	Frozen	6.2	758.2	687.2	1445.5
FA08407434151	4070843415	Frozen	21.4	3698.7	1594.0	5292.6
FA08407433241	4070843324	Frozen	151.0	23297.8	8722.8	32020.5
FA08407432381	4070843238	Frozen	16.7	3124.5	1013.3	4137.8
FA08407432141	4070843214	Frozen	9.0	1477.1	634.0	2111.2
FA08407433661	4070843366	Frozen	4.4	1002.7	135.0	1137.7
FA08407432801	4070843280	Frozen	3.3	765.4	88.3	853.6
FA08407417471	4070841747	Non-Frozen	100.3	23995.2	2242.7	26237.9
FA08407422471	4070842247	Non-Frozen	27.5	5237.9	928.9	6166.8
FA08407421591	4070842159	Non-Frozen	5.1	623.2	305.2	928.4
FA08407433001	4070843300	Non-Frozen	5.7	1181.9	130.2	1312.1
FA08407427101	4070842710	Non-Frozen	42.4	8563.3	1659.5	10222.7
FA08407429931	4070842993	Non-Frozen	12.7	2907.3	388.2	3295.5
FA08407429661	4070842966	Non-Frozen	8.9	1921.5	199.4	2120.9
FA08407428961*	4070842896	Non-Frozen	184.1	33421.4	6481.9	39903.4
Total						

*FA0807428961 was previously submitted and approved in February 2020 (see below) as a frozen block. Upon further field verification in early summer 2020, the block roads and boundary were modified for non-frozen harvest operations.

Deciduous Blocks: FHP Amendment February 2020					
Deciduous Blocks					
Opening Number	Harvest Season (Frozen/ Non-Frozen)	Area (ha)	Deciduous Volume (m ³)	Incidental Conifer Volume (m ³)	Total Volume (m ³)
4070842896	F	199.5	35,579	7,008	42,607

Deciduous Blocks: FHP 2019						
Source ID	Opening Number	Harvest Season (Frozen/ Non-Frozen)	Area (ha)	Deciduous Volume (m ³)	Incidental Conifer Volume (m ³)	Total Volume (m ³)
FA08306431281	4060833128	Non-Frozen	6.4	1360.4	214.8	1575.2
FA08307434481	4070833448	Non-Frozen	8.0	1636.2	425.4	2061.5
FA08407401031	4070840103	Non-Frozen	15.8	3521.9	586.7	4108.6
FA08407401061	4070840106	Non-Frozen	9.6	2202.7	256.8	2459.5
FA08407401481	4070840148	Non-Frozen	9.2	1994.8	317.7	2312.5
FA08407401721	4070840172	Non-Frozen	11.9	2688.3	385.7	3074.0
FA08407401921	4070840192	Non-Frozen	6.1	1134.2	292.0	1426.2
FA08407402171	4070840217	Non-Frozen	3.1	690.0	78.8	768.8
FA08407402261	4070840226	Non-Frozen	3.1	757.1	82.7	839.8
FA08407402421	4070840242	Non-Frozen	22.4	5282.1	854.4	6136.5
FA08407402651	4070840265	Non-Frozen	2.6	638.6	55.9	694.6
FA08407402661	4070840266	Non-Frozen	7.6	1178.3	745.3	1923.7
FA08407402691	4070840269	Frozen	4.3	426.6	549.1	975.8
FA08407403841	4070840384	Non-Frozen	36.8	8860.9	1272.2	10133.0
FA08407403991	4070840399	Non-Frozen	20.6	5185.4	641.9	5827.4
FA08407409251	4070840925	Non-Frozen	11.6	2917.2	316.5	3233.7
FA08407409851	4070840985	Non-Frozen	0.5	123.1	14.2	137.3
FA08407409881	4070840988	Non-Frozen	3.7	891.0	84.4	1162.2
FA08407411841	4070841184	Frozen	10.7	2595.2	327.8	2923.0
FA08407411851	4070841185	Frozen	9.2	1880.1	583.0	2463.1
FA08407411881	4070841188	Non-Frozen	10.5	2575.3	286.9	2862.2
FA08407412211	4070841221	Non-Frozen	6.4	1525.8	167.6	1693.4
FA08407415381	4070841538	Non-Frozen	20.1	4814.4	549.6	5364.0
FA08407415761	4070841576	Non-Frozen	40.5	10217.5	1162.0	11379.5

<i>Source ID</i>	Opening Number	Harvest Season (Frozen/ Non-Frozen)	Area (ha)	Deciduous Volume (m³)	Incidental Conifer Volume (m³)	Total Volume (m³)
FA08407416971	4070841697	Non-Frozen	30.3	7478.1	846.0	8324.1
FA08407421291	4070842129	Non-Frozen	36.0	8422.7	1046.9	9469.6
FA08407421531	4070842153	Non-Frozen	24.7	6017.5	671.7	6689.2
FA08407422241	4070842224	Non-Frozen	15.4	3705.6	421.4	4127.0
FA08407422431	4070842243	Non-Frozen	6.3	1292.2	214.2	1506.4
FA08407429801	4070842980	Non-Frozen	15.3	3839.9	411.2	4251.0
Total			393.3	92013.3	13451.4	105652

*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.

Coniferous Blocks: FHP Amendment 2020						
<i>Source ID</i>	Opening Number	Harvest Season (Frozen/ Non-Frozen)	Area (ha)	Conifer Volume (m³)	Incidental Deciduous Volume (m³)	Total Volume (m³)
FA08407411431	4070841143	Frozen	5.3	334.0	640.9	974.9
FA08407422661	4070842266	Frozen	2	381.6	129.3	510.9
FA08407422891	4070842289	Frozen	5.5	422.6	462.2	884.8
FA08407433651	4070843365	Frozen	5.7	565.2	497.5	1062.7
FA08407427021	4070842702	Frozen	4.4	817.1	339.8	1156.9
FA08407427311	4070842731	Frozen	7.7	912.2	965.6	1877.8
FA08407434421	4070843442	Frozen	16.5	1760.3	2145.7	3906.0
Total			47.1	5192.9	5181.1	10374.0

Coniferous Blocks: FHP 2019						
<i>Source ID</i>	Opening Number	Harvest Season (Frozen/ Non-Frozen)	Area (ha)	Conifer Volume (m ³)	Incidental Deciduous Volume (m ³)	Total Volume (m ³)
FA08407401801	4070840180	Transitional	6.2	296.3	1145.2	1441.5
FA08407402471	4070840247	Non-Frozen	1.3	125.2	90.6	215.8
FA08407411731	4070841173	Frozen	2.7	396.5	328.8	725.4
Total			10.2	818.1	1564.6	2382.7

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

Planning Unit 084074 is situated within Alberta's Fire Control Zone number 41 as identified by Alberta Agriculture and Forestry (AAF).

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

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).

OPENING	GRID	LAT	LONG
4070841697	1506	56.28411	-111.03324
4070840265	0255	56.25356	-110.9937
4070840172	0173	56.25059	-110.96205

5.0 Watercourse Protection

During the preliminary planning of Planning Unit 084074 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.

Watercourse Crossings: FHP Amendment July 2020		
Road ID	Road Crossing Number	Stream Class
DLO064237	219	Ephemeral
LOC020688	3411	Ephemeral
LOC020688	3381	Ephemeral
LOC020688	3462	Ephemeral
LOC020688	3461	Small Permanent
LOC020688	3471	Ephemeral
LOC020688	3501	Ephemeral
LOC060459	3337	Transitional
LOC060459	3347	Transitional
LOC060459	3357	Transitional
LOC060459	3356	Large permanent
LOC790281	1737	Small Permanent
RA08407411431	1132	Ephemeral
RA08407417471	2051	Ephemeral

Road ID	Road Crossing Number	Stream Class
RA08407417471	1754	Intermittent
RA08407417471	1735	Transitional
RA08407417471	1734	Small Permanent
RA08407417471	1744	Intermittent
RA08407422891	2278	Ephemeral
RA08407427101	2740	Ephemeral
RA08407432381	3257	Transitional
RA08407432801	3290	Transitional
RA08407432801	3291	Ephemeral
RA08407433001	3310	Transitional
RA08407433001	2819	Transitional
RA08407433241	3346	Ephemeral
RA08407433241	3286	Ephemeral
RA08407433241	3289	Ephemeral
RA08407433241	3319	Ephemeral
RA08407433241	3328	Transitional
RA08407433241	3298	Ephemeral
RA08407433241	3348	Ephemeral
RA08407433241	3338	Ephemeral
RA08407433651	3384	Ephemeral
DLO960926	1684	Small Permanent
RA08407428961	2876	Small Permanent

Watercourse Crossings: FHP Amendment February 2020		
Road ID	Road Crossing Number	Stream Class
LOC060459	3361	Ephemeral
LOC060459	3330	Ephemeral
RA08407428961	3350	Ephemeral

Watercourse Crossings: FHP 2019		
Road ID	Road Crossing Number	Stream Class
DLO064237	0217	Ephemeral
DLO064237	0218	ICE
DLO960926	1504	Small Permanent
DLO960926	1565	Ephemeral
DLO960926	2157	Ephemeral
RA08307434481	0200	Small Permanent
RA08407421531	2152	Ephemeral
RA08407422241	1688	Ephemeral
RA08407422241	2192	Transitional
RA08407422241	2193	Small Permanent
RA08407429801	2098	Ephemeral
LOC050808	2271	Small Permanent
LOC072673	1172	Transitional
LOC072673	1174	Ephemeral
LOC962859	0946	Ephemeral
LOC962859	0945	Ephemeral
LOC962859	0947	Ephemeral

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, 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.

Road Attributes: FHP Amendment 2020			
<i>Road ID</i>	Road Classification	Haul Season	Length, m
DLO064237	Temporary	Frozen	102
DRS010009	Temporary	Non-Frozen	962
RA08407411201	Temporary	Frozen	585
RA08407411431	Temporary	Frozen	214
RA08407417471	Temporary	Non-Frozen	3503
RA08407421591	Temporary	Non-Frozen	171
RA08407422471	Temporary	Non-Frozen	758
RA08407422891	Temporary	Frozen	382
RA08407427101	Temporary	Non-Frozen	1595
RA08407428961	Temporary	Non-Frozen	5130
RA08407428961	Temporary	Non-Frozen	715
RA08407429661	Temporary	Non-Frozen	292
RA08407429931	Temporary	Non-Frozen	544
RA08407432141	Temporary	Frozen	998
RA08407432381	Temporary	Frozen	938
RA08407432801	Temporary	Frozen	164
RA08407433001	Temporary	Non-Frozen	671
RA08407433241	Temporary	Frozen	5391
RA08407433651	Temporary	Frozen	508
RA08407434151	Temporary	Frozen	835
RA08407434421	Temporary	Frozen	228

Road ID	Road Classification	Haul Season	Length, m
LOC020688	Temporary	Frozen	3178
LOC020688	Temporary	Non-Frozen	1889
LOC060459	Temporary	Frozen	1394
LOC070684	Temporary	Frozen	987
LOC790281	Temporary	Frozen	306

Road Attributes: FHP Amendment February 2020			
Road ID	Road Classification	Haul Season	Length, m
RA08407428961*	Temporary	Frozen	5480
RA08407421291a	Temporary	Non-Frozen	1210
LOC020688	Temporary	Frozen	1889
DRS010009	Temporary	Frozen	292

*FA0807428961 was previously submitted and approved in February 2020 as a frozen block. Upon further field verification in early summer 2020, the block roads and boundary were modified for non-frozen harvest operations.

Road Attributes: FHP 2019			
Road ID	Road Classification	Haul Season	Length, m
DLO064237	Temporary	Non-Frozen	381
RA08307434481	Temporary	Non-Frozen	2083
RA08407401031	Temporary	Non-Frozen	29
RA08407401481	Temporary	Non-Frozen	966
RA08407402421	Temporary	Non-Frozen	829
RA08407402471	Temporary	Non-Frozen	92
RA08407403841	Temporary	Non-Frozen	112
RA08407403991	Temporary	Non-Frozen	1296

<i>Road ID</i>	<i>Road Classification</i>	<i>Haul Season</i>	<i>Length, m</i>
RA08407411851	Temporary	Non-Frozen	850
RA08407411881	Temporary	Non-Frozen	368
RA08407412211	Temporary	Non-Frozen	589
RA08407415381	Temporary	Non-Frozen	997
RA08407415761	Temporary	Non-Frozen	155
RA08407416971	Temporary	Non-Frozen	663
RA08407421291	Temporary	Non-Frozen	1132
RA08407421531	Temporary	Non-Frozen	1671
RA08407422241	Temporary	Non-Frozen	2236
RA08407422243	Temporary	Non-Frozen	179
RA08407429801	Temporary	Non-Frozen	531
LOC050808	Temporary	Non-Frozen	1322
LOC072673	Temporary	Frozen	1851
LOC790281	Temporary	Non-Frozen	1252
LOC962859	Temporary	Non-Frozen	715

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

FHP Amendment 2020		
Disposition Number	Disposition Holder	Disposition Type
DLO064237	LF CONSULTING SERVICES LTD.	LICENSE OF OCCUPATION
LOC790281	CNOOC PETROLEUM NORTH AMERICA ULC	LICENSE OF OCCUPATION
LOC060459	CNOOC PETROLEUM NORTH AMERICA ULC	LICENSE OF OCCUPATION
DRS010009	TRANSPORTATION	DISPOSITION RESERVATION
LOC020688	CNOOC PETROLEUM NORTH AMERICA ULC	LICENSE OF OCCUPATION
LOC070684	CNOOC PETROLEUM NORTH AMERICA ULC	LICENSE OF OCCUPATION

FHP 2019		
Disposition Number	Disposition Holder	Disposition Type
LOC050808	CNOOC PETROLEUM NORTH AMERICA ULC	LICENSE OF OCCUPATION
LOC050808		
LOC790281		
LOC072673		
LOC962859	CONOCOPHILLIPS CANADA RESOURCES CORP.	
DLO960926	ALBERTA-PACIFIC FOREST INDUSTRIES INC.	
DLO960926	ALBERTA-PACIFIC FOREST INDUSTRIES INC.	
DLO960926	ALBERTA-PACIFIC FOREST INDUSTRIES INC.	

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 is not an integrated plan.

8.2 Registered Fur Management Areas (RFMAs)

There are RFMAs within the FHP who will be affected by operations. Notification letters were sent to the respective RFMA holders (Table 5), 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.

RFMA ID	Notification Method	Contact Method
162	Letter	Mail
1998		
2013		
2820		

8.3 Wildlife Management Unit(s) (WMU)

Planning Unit 084074 is located within WMUs 519 & 529. 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.

Guide and Outfitters Table

Table 6: Guide and Outfitters
List of Guide and Outfitters active in 519 & 529.

OG ID Number	Date	Contact Method
Burnt Lake Outfitters	31-May-19	Letter
1698927 Alberta Ltd.		
Trophy Buck Outfitters		
Interlake Safaris Ltd.		
Savage Bighorns Ltd.		
Bruno Martel Hunting Adventure Inc.		
Smoky River Outfitting		
Udell's Guiding and Outfitting		
North River Outfitting Ltd.		

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 084074 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 follows 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

A small portion of Planning Unit 084074 is located within caribou range and will adhere to section 7.7.1 of the OGRs.

9.2 Key Wildlife and Biodiversity Zone (KWBZ)

Planning Unit 084074 is not 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 7.7.5 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 areas 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

Table 7: Road Percent Deviations Table

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

OGR Deviations: FHP Amendment 2020					
Source ID	Opening Number	Block Area (ha)	Harvest Season (Frozen/ Non-Frozen)	Road Percentage	Road Percentage Reason
FA08407422471	4070842247	27.5	Non-Frozen	5.4	Narrow/irregular block
FA08407429661	4070842966	8.9	Non-Frozen	6	Narrow/irregular block
FA08407429931	4070842993	12.7	Non-Frozen	6.7	Narrow/irregular block
FA08407432141	4070843214	9	Frozen	5.9	Narrow/irregular block

Table 7.1 Roads Within Watercourse Buffer

Source ID	Road ID	Harvest Season (Frozen/ Non-Frozen)	Buffer	Reason
FA08407432801	RA08407432801	Frozen	Large Permanent	Utilizing higher ground to access block

OGR Deviations: FHP 2019					
Opening Number	Block Area (ha)	Operations (Conifer/ Deciduous)	Harvest Season (Frozen/ Non-Frozen)	Road Percentage	Road Percentage Reason
4070840399	20.59	Deciduous	Non-Frozen	5.68	ACCS
4070840242	22.36	Deciduous	Non-Frozen	6.18	ACCS
4070841188	19.72	Deciduous	Non-Frozen	5.99	MAIN

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 blue ink, appearing to read 'M. Bannard', is centered below the company name.

Maureen Bannard, RPF
Woodlands GIS Planner
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