

29 July 2021

Forest Harvest Plan

PU079094



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Report

1.0 Introduction

Alberta – Pacific Forest Industries Inc. (Al-Pac) has prepared a Forest Harvest Plan (FHP) for the harvest of stands within Planning Unit 079094.

The Planning Unit is located within Forest Management Unit (FMU) L11.

Copies of this Forest Harvest Plan are made available on the Al-Pac website, at www.alpac.ca.

2.0 General Planning Unit Information / Design Considerations

This FHP has been validated by a Registered Forestry Professional from Al-Pac.

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 2021-2022 Al-Pac Annual Operating Plan (AOP).

This Planning Unit is located Northwest of Conklin approximately 20km and is accessed by the Waddell Road north of the Leismer Air Port. The Waddell Creek runs through the center of the planned area, and is classed a large permanent. This area is trafficked seasonally for hunting as there is good all season access on the Waddell road, and there are active oilfield leases and pipelines allowing quad access for hunting. There are also a few hunting camp sites beside borrow pits on the Waddell road.

2.1 Operating Ground Rules

This Planning Unit is designed in accordance with the Northeast Alberta Operating Ground Rules (OGRs). Al-Pac 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

4.2 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 sections 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 600stems/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.

In this submission, there were no blocks that warranted high effort understory protection due to the small patch sizes. The alternative tactic was to plan additional structure retention in the higher density areas.

Block Summary Table

(Values rounded to whole numbers)

 $\frac{Table\ 1:\ Block\ Summary\ Table}{This\ table\ provides\ a\ brief\ description\ of\ the\ proposed\ harvest\ blocks\ within\ the\ Planning\ Unit.}$

| DECIDUOUS BLOCKS | | | | | | |
|------------------|-------------------|--|--------------|-----------------------------|--------------------------------------|----------------------|
| Source ID | Opening Number | Harvest Season (Frozen/Non- Frozen) | Area (ha) | Deciduous Volume (m³) | Incidental Conifer Volume (m³) | Total Volume (m³) |
| FA07808431421 | 4080783142 | Frozen | 58 | 12,803 | 1,668 | 14,471 |
| FA07808431451 | 4080783145 | Non-Frozen | 16 | 3,670 | 371 | 4,041 |
| FA07808431701 | 4080783170 | Non-Frozen | 88 | 18,606 | 3,127 | 21,733 |
| FA07808431781 | 4080783178 | Frozen | 34 | 7,678 | 684 | 8,362 |
| FA07808432091 | 4080783209 | Non-Frozen | 53 | 11,504 | 1,000 | 12,504 |
| FA07809423631 | 4090782363 | Non-Frozen | 8 | 1,195 | 566 | 1,761 |
| FA07809423641 | 4090782364 | Frozen | 10 | 1,517 | 743 | 2,260 |
| FA07809424241 | 4090782424 | Frozen | 9 | 1,782 | 849 | 2,631 |
| FA07809424461 | 4090782446 | Frozen | 3 | 570 | 325 | 895 |
| FA07809425131 | 4090782513 | Frozen | 3 | 423 | 13 | 436 |
| FA07809425331 | 4090782533 | Non-Frozen | 11 | 1,928 | 60 | 1,988 |
| FA07809425831 | 4090782583 | Non-Frozen | 24 | 5,334 | 211 | 5,545 |
| FA07809425981 | 4090782598 | Frozen | 11 | 2,383 | 77 | 2,460 |
| FA07809426131 | 4090782613 | Non-Frozen | 13 | 2,285 | 427 | 2,712 |
| FA07809426531 | 4090782653 | Non-Frozen | 30 | 6,269 | 635 | 6,904 |
| FA07809426901 | 4090782690 | Non-Frozen | 13 | 2,229 | 168 | 2,397 |
| FA07809426941 | 4090782694 | Non-Frozen | 13 | 2,110 | 639 | 2,749 |
| FA07809434671 | 4090783467 | Non-Frozen | 18 | 3,757 | 1,034 | 4,791 |
| FA07908404181 | 4080790418 | Non-Frozen | 38 | 8,050 | 673 | 8,723 |
| FA07908405841 | 4080790584 | Non-Frozen | 85 | 18,778 | 1,629 | 20,407 |
| FA07909402021 | 4090790202 | Non-Frozen | 21 | 4,706 | 475 | 5,181 |
| FA07909402301 | 4090790230 | Frozen | 6 | 1,200 | 247 | 1,447 |
| FA07909414011 | 4090791401 | Non-Frozen | 13 | 3,066 | 334 | 3,400 |

| | CONIFEROUS BLOCKS | | | | | | | |
|---------------|---|------------|-----------|------------------------|--|-------------------|--|--|
| Source ID | Opening Number Harvest Season (Frozen/ Non-Frozen) | | Area (ha) | Conifer Volume (m³) | Incidental Deciduous Volume (m³) | Total Volume (m³) | | |
| FA07809423391 | 4090782339 | Frozen | 25 | 3,033 | 3,187 | 6,220 | | |
| FA07809424171 | 4090782417 | Frozen | 9 | 1,840 | 790 | 2,630 | | |
| FA07908409101 | 4080790910 | Non-Frozen | 28 | 2,943 | 4,036 | 6,979 | | |

^{*}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.

4.4 Structure Retention

For Al-Pac, 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 42 as identified by Alberta Agriculture and Forestry (AAF). The planned harvest areas are **not** within a 10km community FireSmart Zone.

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

4.6 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).

| CAMP LOCATION | | | | | | | |
|---------------|------------|--------|----------|--|--|--|--|
| SOURCE ID | OPENING # | LAT | LONG | | | | |
| FA07808431701 | 4080783170 | 55.771 | -111.283 | | | | |
| FA07809423391 | 4090782339 | 55.780 | -111.293 | | | | |

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 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

<u>Table 1: Watercourse Crossing Summary</u>

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

| WATERCOURSE CROSSINGS | | | WATE | RCOURSE CROS | SINGS |
|-----------------------|-------------------------|-----------------|---------------|-------------------------|--------------|
| Road ID | Road Crossing Number | Stream Class | Road ID | Road Crossing Number | Stream Class |
| RA07808431421 | 3111 | Ephemeral | RA07809423631 | 2374 | Ephemeral |
| RA07808431421 | 3122 | Ephemeral | RA07809423631 | 2394 | Ephemeral |
| RA07808431421 | 3151 | Ephemeral | RA07809425331 | 2524 | Ephemeral |
| RA07808431421 | 3154 | Ephemeral | RA07809425331 | 2533 | Intermittent |
| RA07808431421 | 3165 | Ephemeral | RA07809425831 | 2563 | Ephemeral |
| RA07808431451 | 3157 | Ephemeral | RA07809426531 | 2613 | Intermittent |
| RA07808431451 | 3166 | Ephemeral | RA07809426531 | 2633 | Ephemeral |
| RA07808431701 | 3014 | Ephemeral | RA07809426531 | 2663 | Ephemeral |
| RA07808431701 | 3044 | Ephemeral | RA07809426531 | 2671 | Intermittent |
| RA07808431701 | 3054 | Large Permanent | RA07809434671 | 3456 | Ephemeral |
| RA07808431701 | 3161 | Ephemeral | RA07809434671 | 3457 | Ephemeral |
| RA07808431701 | 3162 | Ephemeral | RA07809434671 | 3469 | Ephemeral |
| RA07808431701 | 3172 | Ephemeral | RA07908404181 | 0416 | Ephemeral |
| RA07808431701 | 3174 | Ephemeral | RA07908405841 | 0551 | Transitional |
| RA07808431701 | 3185 | Ephemeral | RA07908405841 | 0561 | Ephemeral |
| RA07808432091 | 0560 | Transitional | RA07908405841 | 0597 | Ephemeral |
| RA07808432091 | 3196 | Ephemeral | RA07909402021 | 0202 | Ephemeral |
| RA07808432091 | 3199 | Ephemeral | RA07909402021 | 0211 | Ephemeral |
| RA07808432091 | 3208 | Ephemeral | RA07909402021 | 0212 | Ephemeral |
| RA07808432091 | 3209 | Ephemeral | RA07909402021 | 1348 | Ephemeral |
| RA07809423391 | 2319 | Ephemeral | RA07909402301 | 0230 | Transitional |
| RA07809423391 | 2328 | Ephemeral | RA07909402301 | 0232 | Ephemeral |
| RA07809423391 | 2610 | Ephemeral | RA07909402301 | 0233 | Ephemeral |
| RA07809423391 | 2662 | Ephemeral | RA07909402301 | 0234 | Ephemeral |
| RA07809423631 | 2341 | Ephemeral | RA07909402301 | 0244 | Transitional |
| RA07809423631 | 2354 | Transitional | RA07909402301 | 1461 | Ephemeral |
| RA07809423631 | 2364 | Small Permanent | RA07909402301 | 3479 | 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 2: Road Attributes

Summary of the proposed main roads of the Planning Unit.

| MAIN ROAD LENGTHS | | | | | | | |
|-------------------|------------------------|-------|-------------|---------------|--|--|--|
| Road ID | Road Classification | Class | Haul Season | Length (m) | | | |
| LOC910360 | DLO | Temp | Non-Frozen | 45 | | | |
| LOC910360 | DLO | Temp | Frozen | 569 | | | |
| RA07808431421 | MAIN | Temp | Frozen | 2,613 | | | |
| RA07808431451 | MAIN | Temp | Non-Frozen | 943 | | | |
| RA07808431701 | MAIN | Temp | Non-Frozen | 3,642 | | | |
| RA07808432091 | MAIN | Temp | Non-Frozen | 1,118 | | | |
| RA07809423391 | MAIN | Temp | Frozen | 1,651 | | | |
| RA07809423631 | MAIN | Temp | Non-Frozen | 1,983 | | | |
| RA07809423641 | MAIN | Temp | Frozen | 31 | | | |
| RA07809424171 | MAIN | Temp | Frozen | 177 | | | |
| RA07809424461 | MAIN | Temp | Frozen | 521 | | | |
| RA07809425331 | MAIN | Temp | Non-Frozen | 1,131 | | | |
| RA07809425831 | MAIN | Temp | Non-Frozen | 1,184 | | | |
| RA07809425981 | MAIN | Temp | Frozen | 529 | | | |
| RA07809426131 | MAIN | Temp | Frozen | 852 | | | |
| RA07809426531 | MAIN | Temp | Non-Frozen | 1,617 | | | |
| RA07809426901 | MAIN | Temp | Non-Frozen | 1,157 | | | |
| RA07809434671 | MAIN | Temp | Non-Frozen | 755 | | | |
| RA07908404181 | MAIN | Temp | Non-Frozen | 1,082 | | | |
| RA07908405841 | MAIN | Temp | Non-Frozen | 1,543 | | | |
| RA07909402021 | MAIN | Temp | Non-Frozen | 1,596 | | | |
| RA07909402301 | MAIN | Temp | Non-Frozen | 2,085 | | | |
| RA07909414011 | MAIN | Temp | Non-Frozen | 16 | | | |

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 3: Land Use Summary Table

Active dispositions impacted by Harvest Plan:

| LANDUSE SUMMARY | | | | | | |
|--------------------|---------------------------|------------------------|--|--|--|--|
| Disposition Number | Disposition Holder | Disposition Type | | | | |
| LOC910360 | Athabasca Oil Corporation | License of Occuptation | | | | |
| LOC931332 | Athabasca Oil Corporation | License of Occuptation | | | | |
| PLA982465 | Sequoia | Pipeline | | | | |
| DPL931031 | Nova | Pipeline | | | | |

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

8.0 Integration with Other Forest Users

8.1 Integration with Other Harvest Operators

This plan is not integrated with other Quota Holders or Permitees, and effort was taken to avoid other's landbase (AFI's sequenced conifer).

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 4: Trapper Areas Table

| RFMA HOLDERS | | | | |
|--------------|-----------------------|--|--|--|
| RFMA ID | Contact Method | | | |
| 1474 | Registered Mail | | | |
| 1267 | Registered Mail | | | |
| 1523 | Registered Mail | | | |

8.3 Wildlife Management Unit(s) (WMU)

Planning Unit is located within WMU 515 . 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 5: Guide and Outfitters

| GUIDE & OUTFITTERS | | | | | | |
|---|--------------------|----------------|--|--|--|--|
| OG Company | Date | Contact Method | | | | |
| Buckbrush Outfitters | January 29th, 2021 | Letter | | | | |
| Northern Alberta's Whitetail Camp | January 29th, 2021 | Letter | | | | |
| Northern Alberta Trophy Whitetail Hunt: | January 29th, 2021 | Letter | | | | |
| Northern Points Outfitting/Guiding Ltd | January 29th, 2021 | Letter | | | | |
| Triple L Outfitters Ltd. | January 29th, 2021 | Letter | | | | |
| Misty River Outfitters Ltd. | January 29th, 2021 | Letter | | | | |
| Sherwood Outfitters Inc. | January 29th, 2021 | Letter | | | | |
| Groat Creek Outfitters | January 29th, 2021 | Letter | | | | |
| Avenir Guiding & Outfitting | January 29th, 2021 | Letter | | | | |
| Grand Slam Hunting Adventures Ltd. | January 29th, 2021 | Letter | | | | |
| Tall Timbers Outfitting | January 29th, 2021 | Letter | | | | |
| Ryk Visscher's Hunting Adventures Ltd. | January 29th, 2021 | Letter | | | | |
| Wayne Zaft Hunting Adventures Ltd. | January 29th, 2021 | Letter | | | | |

8.4 Indigenous Groups

During the General Development Plan (GDP) process, Al-Pac conducts consultations with indigenous groups every year. Al-Pac works with First Nations to address concerns on an ongoing basis, and considerations are incorporated into the planning process.

8.5 Other Forest Users

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

8.6 Forest Aesthetics

As outlined in Section 5.5. of the OGRs, Al-Pac 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. No specific strategies were employed for aesthetics.

9.0 Species and Areas of Concern

9.1 Woodland Caribou

Planning Unit 079094 is located within a Woodland Caribou Range. The caribou range overlaps the northeast part of the planning unit. All operations within the Woodlands Caribou Zone will be consistent with section 7.7.1 of the OGRs.

9.2 Key Wildlife and Biodiversity Zone (KWBZ)

Planning Unit 079094 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 7.7.5 of the OGRs.

9.4 Cultural 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.

There were no signs 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. No forest health concerns were identified.

If any sites are identified post submission, Al-Pac 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 6: Road Percent Deviations Table

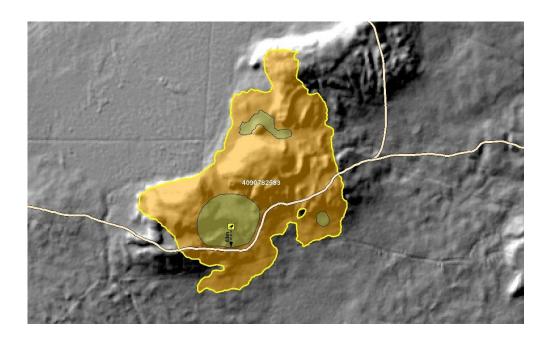
Road deviations which contain blocks that are greater than 7 hectares, with potentially more than 5% road disturbance.

| ROAD ATTRIBUTES | | | | | | | |
|-----------------|----------------|--------------------|---------------------------------------|--|--------------------|---------------------------|--|
| Source ID | Opening Number | Block Area (ha) | Operations (Conifer/Decidu ous) | Harvest Season (Frozen/ Non- Frozen) | Road Percentage | Road Percentage Reason | |
| FA07808431451 | 4080783145 | 16.4 | Deciduous | Non-Frozen | 7.1 | Access to other blocks | |
| FA07808431701 | 4080783170 | 88.1 | Deciduous | Non-Frozen | 6.0 | Access to other blocks | |
| FA07808432091 | 4080783209 | 53.0 | Deciduous | Non-Frozen | 5.4 | Access to other blocks | |
| FA07809423391 | 4090782339 | 25.3 | Coniferous | Frozen | 7.7 | Narrow/irregular block | |
| FA07809423631 | 4090782363 | 8.3 | Deciduous | Non-Frozen | 7.9 | Access to other blocks | |
| FA07809423641 | 4090782364 | 9.9 | Deciduous | Frozen | 4.8 | Access to other blocks | |
| FA07809425331 | 4090782533 | 11.3 | Deciduous | Non-Frozen | 10.2 | Access to other blocks | |
| FA07809425831 | 4090782583 | 23.9 | Deciduous | Non-Frozen | 6.0 | Access to other blocks | |
| FA07809426131 | 4090782613 | 12.6 | Deciduous | Non-Frozen | 10.3 | Narrow/irregular block | |
| FA07809426531 | 4090782653 | 30.4 | Deciduous | Non-Frozen | 7.4 | Narrow/irregular block | |
| FA07809426901 | 4090782690 | 13.0 | Deciduous | Non-Frozen | 8.6 | Narrow/irregular block | |
| FA07809426941 | 4090782694 | 13.1 | Deciduous | Non-Frozen | 6.9 | Narrow/irregular block | |
| FA07809434671 | 4090783467 | 18.4 | Deciduous | Non-Frozen | 7.7 | Narrow/irregular block | |
| FA07908404181 | 4080790418 | 38.0 | Deciduous | Non-Frozen | 5.3 | Access to other blocks | |
| FA07908405841 | 4080790584 | 84.6 | Deciduous | Non-Frozen | 4.6 | Access to other blocks | |
| FA07909402021 | 4090790202 | 20.8 | Deciduous | Non-Frozen | 10.7 | Access to other blocks | |
| FA07909414011 | 4090791401 | 12.8 | Deciduous | Non-Frozen | 11.1 | Access to other blocks | |

Additional Variances to note:

| <u> </u> | Additional variances to note. | | | | | | |
|---|-------------------------------|--------|--|--|--|--|--|
| | Other OGR Road Variances | | | | | | |
| Source ID Harvest Season (Frozen/ Non- Buffer Frozen) | | Buffer | Reason | | | | |
| FA07808431701 | Non-frozen | 100m | Main haul road gets to 80m of the highwter mark of a small permanent for approximately 200m length. | | | | |
| FA07809423631 | Frozen | 100m | Main haul road is within 70m of a beaverpond for approximately 100m length. | | | | |
| FA07809425831 | Non-frozen | 100m | Main haul road comes within a 100m of a stick nest due to opertional constraints. Additonal explanation provided in write-up. | | | | |

During Layout of the haul road through Block FAo7809425831, a stick nest was found just off the road alignment. In attempts to maintain a 100m buffer, planners explored moving the road but found conditions at the edge of the block would greatly impact the road's construction and operability. It was decided to move the road as far away from the nest as possible while still maintaining an operable alignment through the terrain. This design still maintains 2.5 hectares of protected area around the nest with a reasonable 63m spacing where it is narrowest. No activity was apparent in the nest during the layout period. Please see screenshot inserted below.



12.0 Validation by Registered Forest Practitioner

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

ALBERTA-PACIFIC FOREST INDUSTRIES INC.

Dem Fram