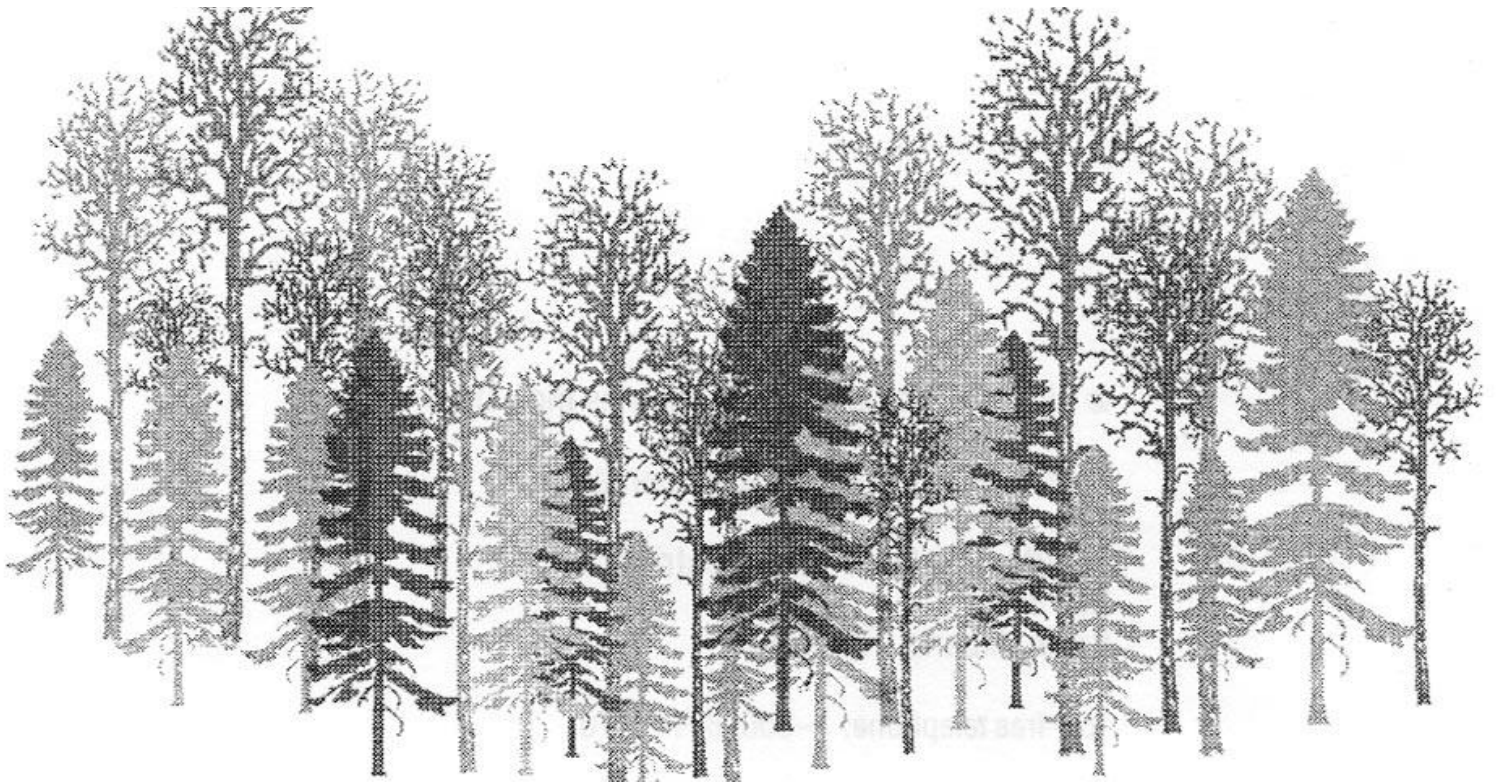


**ALBERTA  
PACIFIC**  
FOREST INDUSTRIES INC

# **Forest Harvest Plan**



**Planning Unit 087244**

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# **Planning Unit 087244**

## **Forest Harvest Plan**

### **1. Introduction**

This Forest Harvest Plan (FHP) for Planning Unit 087244 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 2017-18 Alberta-Pacific Forest Industries Inc. (Alberta-Pacific) Annual Operating Plan (AOP).

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

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

Planning Unit 087244 is located north of Wabasca. The Wabasca River borders the east side of the planning unit and the Woodenhouse River borders the west side of the planning unit.

The planning unit is located in Forest Management Unit (FMU) S22. Alberta-Pacific has rights to D and DC as deciduous landbase and CD and C as shared coniferous landbase.

This plan contains both laidout and non-laidout blocks. The laidout blocks are being submitted for a five-year approval. These blocks will be referred to as FHP blocks. The non-laidout blocks are included within this plan for information purposes only and will be amended to the FHP once they have been laidout. These blocks will have a number 2 at the end of the block number.

#### **Integration**

Since this FHP is in FMU S22 it has been provided for review to Vanderwell Contractors (1971) Ltd.

Alberta-Pacific has received their agreement for this plan on October 20, 2017.

#### **Watershed**

The Wabasca river along the east boundary of the planning unit and the Woodenhouse River on the west are fish bearing and navigable water ways. They will be buffered accordingly.

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

## **Stand Structure**

An average of 5% of the merchantable volume will be left in stand structure over the FMU. The structure will be left as layout patches, and as single trees and small clumps of timber at the operators' discretion.

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**

All of the blocks in this unit are outside FireSmart Community Zones as identified by Alberta Agriculture and Forestry (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 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 significant signs were detected.

### 3. Block Information

The following table summarizes the volumes within Vanderwell and Alberta-Pacific's FHP blocks.

#### Landbase Volume Summary

Company	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
Alberta-Pacific – 1 <sup>st</sup> Entry	730	116,391	16,811	17,372	150,573
Alberta-Pacific – 2 <sup>nd</sup> Entry	714	123,205	4,217	19,917	147,339

The values in the above table for Alberta-Pacific – 1<sup>st</sup> Entry include first entry blocks and retention areas.

Alberta-Pacific FHP block 08724411531 will have its coniferous volume hauled as Forest Management Agreement (FMA) S22 primary coniferous chargeable.

#### 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)
08624434281	4240863428	F	INC	U	26	3,502	0	646	4,148
08723419641	4230871964	F	INC		28	5,065	0	363	5,428
08723419721	4230871972	F	INC		5	850	0	27	877
08723429661	4230872966	F	INC	U	11	989	553	512	2,054
08723430241	4230873024	F	INC		2	275	0	67	342
08723430641	4230873064	F	INC		5	776	0	312	1,088
08723431241	4230873124	F	INC		13	2,089	0	644	2,733
08723431481	4230873148	F	INC	U	7	836	0	446	1,282
08723431661	4230873166	F	INC		1	219	0	96	315
08723432221	4230873222	F	INC		3	487	0	192	679
08723432841	4230873284	F	INC	U	46	6,531	84	4,549	11,164
08724402221	4240870222	F	INC		11	2,059	0	67	2,127
08724402551	4240870255	F	INC	U	43	6,515	0	310	6,825
08724411531	4240871153	F	FMA		9	1,911	0	433	2,343
08724411681	4240871168	F	INC	U	153	24,454	87	3,178	27,719
08724412241	4240871224	F	INC	U	32	6,071	0	866	6,938
08724412281	4240871228	F	INC	U	32	4,955	0	176	5,131
08724412891	4240871289	F	INC		67	11,695	0	916	12,611
08724424261	4240872426	F	INC	U	11	1,906	0	462	2,369
08724424281	4240872428	F	INC		16	3,489	0	210	3,698
08724424321	4240872432	F	INC	U	23	3,988	0	926	4,914

**Alberta-Pacific Deciduous First Entry Block Listing  
(Cont.)**

(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)
08724425241	4240872524	F	INC		5	1,184	0	37	1,221
08724425281	4240872528	F	INC		28	6,940	0	712	7,652
08724425441	4240872544	F	INC		4	968	0	103	1,071
08724425661	4240872566	F	INC	U	25	4,669	0	483	5,152
08724436841	4240873684	F	INC		6	1,338	0	121	1,459
<b>Total</b>					<b>614</b>	<b>103,763</b>	<b>724</b>	<b>16,854</b>	<b>121,340</b>

The block in the above table with a FMA for Conif Charge will be considered White Spruce cover type for coniferous volume chargability.

**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)
08723418771	4230871877	F	FMA		7	506	750	117	1,373
08723429861	4230872986	F	FMA		1	62	273	0	335
08723430441	4230873044	F	FMA		2	110	410	0	520
08723430461	4230873046	F	FMA		43	4,705	6,552	13	11,269
08723430881	4230873088	F	FMA		18	2,464	2,458	0	4,922
08723431261	4230873126	F	FMA		1	37	108	0	145
08723431441	4230873144	F	FMA		1	48	184	0	232
08723431461	4230873146	F	FMA		4	271	649	0	920
08723431681	4230873168	F	FMA		1	16	202	0	218
08723431821	4230873182	F	FMA		2	72	160	0	232
08723432441	4230873244	F	FMA		2	70	252	0	322
08723432641	4230873264	F	FMA		1	102	140	0	242
08723432831	4230873283	F	FMA		5	387	710	0	1,097
08723433221	4230873322	F	FMA		11	1,157	1,405	5	2,567
08723433441	4230873344	F	FMA		12	1,299	1,835	181	3,315
<b>Total</b>					<b>110</b>	<b>11,306</b>	<b>16,087</b>	<b>317</b>	<b>27,710</b>

**Alberta-Pacific Deciduous Second 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)
08624409872	4240860987	F	INC		29	5,872	0	1,293	7,165
08624410282	4240861028	F	INC		4	1,021	0	243	1,264
08624415412	4240861541	F	INC		33	5,110	0	1,401	6,511
08624416262	4240861626	F	INC		4	657	0	73	730
08624416332	4240861633	F	INC		6	991	0	425	1,415
08624416442	4240861644	F	INC		2	338	0	145	483
08624416662	4240861666	F	INC		25	3,468	0	2,209	5,677
08624417462	4240861746	F	INC		1	266	0	8	274
08624417662	4240861766	F	INC		3	612	0	19	631
08624417882	4240861788	F	INC		4	661	0	20	682
08624419682	4240861968	F	INC		211	37,595	0	2,353	39,948
08624420862	4240862086	F	INC		22	3,854	0	204	4,058
08624420882	4240862088	F	INC		16	2,822	0	87	2,909
08624421662	4240862166	F	INC		1	150	0	5	154
08624421822	4240862182	F	INC		43	7,744	0	269	8,013
08624422222	4240862222	F	INC		3	475	0	183	658
08624422262	4240862226	F	INC		5	846	0	363	1,209
08624422442	4240862244	F	INC		4	760	0	24	784
08624422482	4240862248	F	INC		6	799	0	533	1,332
08624422852	4240862285	F	INC		87	14,978	0	3,846	18,825
08624426232	4240862623	F	INC		5	633	0	422	1,055
08624427312	4240862731	F	INC		1	178	0	119	297
08624427442	4240862744	F	INC		6	870	0	217	1,087
08624428242	4240862824	F	INC		3	408	0	175	582
08624428462	4240862846	F	INC		34	6,946	0	2,031	8,976
08624428622	4240862862	F	INC		1	135	0	4	139
08624428642	4240862864	F	INC		17	3,003	0	93	3,096
08624428822	4240862882	F	INC		5	851	0	365	1,215
08624428862	4240862886	F	INC		9	1,613	0	50	1,663
08624429262	4240862926	F	INC		10	1,584	0	558	2,142
08624429582	4240862958	F	INC		3	397	0	99	496
08624432822	4240863282	F	INC		6	1,145	0	35	1,181
08624433642	4240863364	F	INC		6	855	0	214	1,069
08624433682	4240863368	F	INC		2	372	0	41	413
08624433712	4240863371	F	INC		13	3,097	0	344	3,442
08624433842	4240863384	F	INC		3	560	0	62	623
08624434622	4240863462	F	INC		25	3,845	0	926	4,771
08624434842	4240863484	F	INC		8	1,295	0	144	1,439

**Alberta-Pacific Deciduous Second Entry Block Listing  
(Cont.)**

(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)
08624434952	4240863495	F	INC		6	1,161	0	36	1,197
08624435222	4240863522	F	INC		1	245	0	8	252
08624435662	4240863566	F	INC		15	2,567	0	228	2,796
<b>Total</b>					<b>687</b>	<b>120,781</b>	<b>0</b>	<b>19,873</b>	<b>140,654</b>

**Alberta-Pacific Coniferous Second 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)
08624416222	4240861622	F	FMA		2	44	412	0	455
08624416242	4240861624	F	FMA		3	184	769	0	953
08624416642	4240861664	F	FMA		5	570	891	0	1,461
08624420622	4240862062	F	FMA		2	123	300	0	423
08624422282	4240862228	F	FMA		5	552	575	0	1,126
08624423292	4240862329	F	FMA		9	888	1,006	44	1,938
08624427642	4240862764	F	FMA		1	63	264	0	328
<b>Total</b>					<b>26</b>	<b>2,425</b>	<b>4,217</b>	<b>44</b>	<b>6,685</b>

**Retention Area Listing**

(Values Affected by Rounding)

Retention Id	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
08724403979 4240870397	3	546	0	17	563
08724412889 4240871288	3	777	0	184	960
<b>Total</b>	<b>6</b>	<b>1,323</b>	<b>0</b>	<b>200</b>	<b>1,523</b>



#### 4. Access and Road Information

Landuse agreements will be in place prior to use of any third party dispositions being used.

##### Main Access to Planning Unit

Township	Crossing Location	Field Call
86-25-4	0759	B
	0769	B
	1343	SP
	1344	LP
	1466	E
85-01-5	3661	E

##### Planning Unit Temporary Road Information

Existing access has been utilized where possible to minimize the clearing of new Right of Way (RoW).

New access and channelled watercourse crossings will be reclaimed in order to restrict access. All terrain vehicle (ATV) access may be left to facilitate silviculture activities.

New access and channelled watercourse crossings will be reclaimed as per Section 11.3.4 of the OGRs. Road reclamation and abandonment details are listed in the AOP when the blocks and roads are scheduled.

##### Inter Block Roads and Crossings

Road No.	Class	Length (Km)	Construction Season	Crossing Location	Field Call	Navigability
02221	4W	8.02	Frozen	1954	E	U
				2014	T	U
				3343	E	U
02551	4W	0.95	Frozen			
11531	4W	0.22	Frozen			
11681	4W	5.43	Frozen	1122	E	N
12241	4W	0.83	Frozen			
12281	4W	0.78	Frozen			
12891	4W	1.64	Frozen			
18771	4W	1.32	Frozen			
19641	4W	0.15	Frozen			
19721	4W	0.64	Frozen			
24261	4W	0.37	Frozen			
24281	4W	0.60	Frozen	2436	SP	N
24321	4W	0.89	Frozen			
25241	4W	1.03	Frozen			

### Inter Block Roads and Crossings

<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>
25281	4W	0.44	Frozen			
25441	4W	0.38	Frozen			
25661	4W	0.58	Frozen			
29661	4W	1.52	Frozen			
29861	4W	0.05	Frozen			
30241	4W	0.52	Frozen			
30441	4W	0.34	Frozen			
30461	4W	2.30	Frozen			
30641	4W	0.44	Frozen			
30881	4W	1.03	Frozen			
31241	4W	1.31	Frozen			
31261	4W	0.29	Frozen			
31441	4W	0.19	Frozen			
31461	4W	0.13	Frozen			
31481	4W	0.56	Frozen			
31661	4W	0.43	Frozen			
31681	4W	0.15	Frozen			
31821	4W	0.43	Frozen			
32221	4W	0.52	Frozen			
32441	4W	0.36	Frozen			
32641	4W	0.50	Frozen			
32841	4W	0.67	Frozen			
33221	4W	1.36	Frozen			
33441	4W	0.64	Frozen			
34281	4W	0.39	Frozen			
36841	4W	0.39	Frozen			
<b>Total Class 4W:</b>		<b>38.79</b>				

In the above tables, possible “Field Call” channelled watercourse classifications are ephemeral (E), intermittent (I), transitional (T), beaver pond (B), small permanent (SP) large permanent (LP), 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 OGRs at the time, and during the conditions, when layout was conducted.

## **5. Non Timber Values**

### **Public Involvement**

Copies of this harvest plan are available for viewing at [www.alpac.ca](http://www.alpac.ca).

The Public Involvement for this plan was completed during this year's GDP review meetings.

No concerns have been identified through the public involvement process to date.

### **Aboriginal Consultation**

The Aboriginal Consultation for this plan was completed during this year's GDP review meetings.

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

### **Trappers**

The holders of the following Registered Fur Management Areas (RFMA) have been contacted regarding harvesting activities within Planning Unit 087244:

1122                      2440

No concerns have been identified at the moment. Alberta-Pacific are currently in ongoing discussions with the trappers within this plan.

### **Guides and Outfitters**

The holders of the following permits within Wildlife Management Unit (WMU) 541 and 542 have been notified of Alberta-Pacific's harvest plans within Planning Unit 087244:

0023                      0066                      0081                      0163                      0490  
0574                      0869                      0995                      1060

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 during the design of this plan. Lands on which historical resource sites are likely to occur will be checked prior to commencement of operations.

## **Forest Aesthetics**

No concerns have been indentified.

## **Land Use**

As per a review of the Alberta Government's Digital Integrated Dispositions (DIDs) digital mapping program on August 10, 2017 and Alberta-Pacific's Landuse files from Evergreen Land Use Consulting on August 25, 2015, there are currently no dispositions within this planning unit that restrict the harvesting timber.

A roadside development permit was approved on September 29, 2017 to allow timber harvesting on RDS110039 in SE31, SW31, SE36 Township 87, Range 23 and 24 W4M. This permit expires on March 31, 2019.

## **Wildlife**

Portions of the planning unit is 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 policies have 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.

The following access control practices will also be implemented:

- If a significant delay occurs between harvesting and hauling, temporary access controls on roads will be utilized to restrict access by motorized vehicles. These controls may include the placement of logs on the road, snow berms, and/or removal of creek crossings.

- Slash rollback at strategic points (such as at the ends of the block or at the junction of the temporary road and permanent road) will be completed as soon as possible after logging to discourage access by all terrain or four wheel drive vehicles.

### *Timing*

Since portions of the planning unit falls within a Caribou Range, the timing of operations for those blocks will be completed as per the Alberta-Pacific Caribou Protection Plan.

Since a portion of this planning unit falls within a key Wildlife and Biodiversity Zone, harvest and haul activities within in the zone are to be completed by January 15<sup>th</sup> as per the OGRs.

## 6. Spatial Harvest Sequence Summary

The table below summarizes the variance (in area) from the SHS, for Alberta-Pacific harvesting.

The variance exceeds the 20% allowable by cover type for acceptance as per the OGRs.

Non-SHS area has been incorporated into this harvest design in order to create an operationally functionable plan. To offset these additions there is 821.9 ha of Aw deferrals and 148.5 ha of Sw deferrals from the SHS from township 87-24-4. This planning unit has been pre-blocked in Alberta-Pacific's 2015 SHS.

Alberta-Pacific has added this area to the schedule in order to achieve it's commitment the Canadian Boreal Forest Agreement (CBFA).

### SHS Tracking

SHS Tracking	Decid. Cover Type	Sw Cover Type	Sb Cover Type	Pj Cover Type	Total Cover Type
Total SHS in Planning Unit	1,320.6	153.0	0.0	0.0	1,473.6
FHP SHS Harvest ha.	264.8	1.1	0.0	0.0	265.9
Deleted SHS ha. (reportable)	208.6	3.1	0.0	0.0	211.7
Deferred SHS ha. (reportable)	825.7	148.5	0.0	0.0	974.2
Variance % <sup>(1)</sup> (reportable)	78.3%	99.1%	0.0%	0.0%	80.5%
Addition ha. (reportable)	990.0	118.1	0.0	0.0	1,108.1
Bypassed ha.	0	0	0.0	0.0	0.0
Total Harvest ha. <sup>(2)</sup>	1,254.8	119.2	0.0	0.0	1,374.0
SHS Variance ha. (unreportable) <sup>(3)</sup>	21.5	0.3	0.0	0.0	21.8
Additions ha. (unreportable) <sup>(4)</sup>	52.9	13.9	0.3	0.0	67.1

(1) Variance % is the reportable Deleted and Deferred SHS ha. expressed as a percentage of the Total SHS in the Planning Unit.

(2) Total Harvest ha. is the sum of FHP SHS Harvest ha. and Additions ha. (reportable).

(3) SHS Variance ha. (unreportable) are the deletions and deferrals from the SHS that are less than 2.0 ha. in size.

(4) Additions ha. (unreportable) are the additions to the FHP design that are less than 2.0 ha. in size.

## 7. Silviculture Information

The following table outlines the initial silviculture declarations for FHP blocks within Planning Unit 087244. Cover group balanced declarations will be submitted post harvest.

### Alberta-Pacific Silviculture Declarations

Source Id	Opening Num	Area (ha)	Lanbase Desig
08624434281	4240863428	26.3	ALPC0501
08723418771	4230871877	6.6	ALPC0510
08723419641	4230871964	28.5	ALPC0501
08723419721	4230871972	4.9	ALPC0501
08723429661	4230872966	10.7	ALPC0506
08723429861	4230872986	1.4	ALPC0510
08723430241	4230873024	1.9	ALPC0501
08723430441	4230873044	2.2	ALPC0510
08723430461	4230873046	43.2	ALPC0506
08723430641	4230873064	5.1	ALPC0504
08723430881	4230873088	17.7	ALPC0506
08723431241	4230873124	13.4	ALPC0504
08723431261	4230873126	0.7	ALPC0510
08723431441	4230873144	1.0	ALPC0510
08723431461	4230873146	3.5	ALPC0506
08723431481	4230873148	7.4	ALPC0504
08723431661	4230873166	1.1	ALPC0504
08723431681	4230873168	1.0	ALPC0510
08723431821	4230873182	1.5	ALPC0510
08723432221	4230873222	3.3	ALPC0504
08723432441	4230873244	1.5	ALPC0510
08723432641	4230873264	1.1	ALPC0506
08723432831	4230873283	4.9	ALPC0506
08723432841	4230873284	46.5	ALPC0504
08723433221	4230873322	11.1	ALPC0506
08723433441	4230873344	12.3	ALPC0506
08724402221	4240870222	11.3	ALPC0501
08724402551	4240870255	43.2	ALPC0501
08724411531	4240871153	9.2	ALPC0501
08724411681	4240871168	152.8	ALPC0501
08724412241	4240871224	31.9	ALPC0501
08724412281	4240871228	32.5	ALPC0501
08724412891	4240871289	66.7	ALPC0501
08724424261	4240872426	10.6	ALPC0501

### Alberta-Pacific Silviculture Declarations (Cont.)

Source Id	Opening Num	Area (ha)	Lanbase Desig
08724424281	4240872428	16.2	ALPC0501
08724424321	4240872432	23.2	ALPC0501
08724425241	4240872524	4.8	ALPC0501
08724425281	4240872528	27.6	ALPC0501
08724425441	4240872544	3.8	ALPC0501
08724425661	4240872566	25.0	ALPC0501
08724436841	4240873684	5.6	ALPC0501

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

## 8. OGRs Variances

### Blocks

The variance exceeds the 20% allowable by cover type for acceptance as per the OGRs. Refer to Section 6 of this document for further details.

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

### Road Percent

Source Id	% Road Class	Comments
08624434281	5	Narrow block and/or irregular shaped block.
08723433221	5	Extra road required, Access to other blocks.
08723433441	5	Extra road required, Access to other blocks.
08724402221	7	Narrow block and/or irregular shaped block.
08724411531	6	Narrow block and/or irregular shaped block.
08724412241	6	Required due to understorey protection.
08724424281	5	Extra road required, Access to other blocks.
08724424321	5	Required due to understorey protection.

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

Block 08723431241 is broken into 4 independent islands that together are greater than 10 ha. The islands contain >2 ha clumps of  $\geq 600$  stems/ha of White Spruce understorey. Due to road placement and understorey distribution, strip orientation would not be conducive to a windfirm design.



Block 08724402221 is greater than 10 ha and contains >2 ha clumps of  $\geq 600$  stems/ha of White Spruce understorey. Due to the shape of the block and understorey distribution, strip orientation would not be conducive to a windfirm design.

No understorey protection will be submitted for the above 2 blocks.

## Roads

### Road Comments

#### Roads Close to Watercourses

Road No.	Grid Location	Base Info	Field Call	Distance of Watercourse From Road	Habitat Rating
11681	1134	P	LP	100	U
24321	2422	P	LP	100	SF

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  $\geq 4$  ha (LL). The possible “Field Call” watercourse classifications are intermittent (I), transitional (T), small permanent (SP), large permanent (LP), lake < 4 ha (SL), lake  $\geq 4$  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.

