



FOOTNER FOREST PRODUCTS LTD.

&

TOLKO INDUSTRIES LTD.

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# FINAL HARVEST PLAN

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FMA 0200040  
WADLIN OPERATING AREA  
COMPARTMENT 5  
WN503\_06  
2009/2010 OPERATING SEASON

SUBMITTED: SEPTEMBER 30, 2009  
RE-SUBMITTED: OCTOBER 30, 2009

# FINAL HARVEST PLAN

WADLIN OPERATING AREA

COMPARTMENT 5

## WN503\_06

### INTRODUCTION

APPROVAL ITEM	YES/NO	INITIAL/DATE (COMPANIES/GOVERNMENT)
Validated by RFP	Yes	/Sept. 30 ,2009 / Sept. , 2009
Deletes <20% of SHS area	Yes	/Sept. 30 ,2009 / Sept. , 2009
Area does not exceed 100%	Yes	/Sept. 30 ,2009 / Sept. , 2009
Adheres to all Ground Rules	No	/Sept. 30 ,2009 / Sept. , 2009
Was a CA completed?	No	/Sept. 30 ,2009 / Sept. , 2009
Checklist Attached	Yes	/Sept. 30 ,2009 / Sept. , 2009

This Final Harvest Plan is for Compartment 5 in the Wadlin Operating Area. La Crete Sawmills Ltd. will be operating in this compartment, with the approval of this plan, under their joint Wood Supply Agreement they have with Tolko-HLLD. The coniferous volume harvested under this plan will be delivered to La Crete Sawmills Ltd. All blocks in this plan are proposed for winter operations. Due to the recent indefinite closure of Footner Forest Products Ltd. (FFP) this will not be an integrated plan. There is one deciduous block however at the south end of the compartment near highway 88 that is a carry over from the previous plan.

There are two separate areas in this compartment included in the plan. The one area has blocks that are located south of Fort Vermilion along HWY 88 approximately 90 - 100 kilometers. The proposed area of operations occurs within TWP100RGE9W5M and TWP101RGE9W5M.

The second area contains harvest areas along the north facing slope of the buffalo Hills near Wadlin Lake and is within TWP101RGE9W5M and TWP102RGE9W5M. This part of the plan will probably not be harvested this year due timing restraints and needs at the mill. The area is unique in that much of the planned harvest area is on a hillside of hummocks and deep gullies. The slope fluctuates between 0% & 30%. This silty terrain has areas of unstable soils that are evident through creeping and slumping. Because of this instability, a terrain field assessment was conducted by a certified specialist to insure that the planning of these harvest areas and access corridors was done in a way that mitigates soil movement after operational activities are completed.

Recent harvesting activities occurred in the Wadlin 5 compartment for three consecutive years beginning in 2004/2005. All of these blocks are white spruce leading with scattered deciduous stems throughout.

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**COMPARTMENT ASSESSMENT**

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There has been no compartment assessment completed for the Wadlin 5 Compartment.

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**UTILIZATION EXCEPTIONS**

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Rub posts will be utilized around retention patches and in areas where clumps of conifer understory are avoided. The rub posts are intended to protect lesser vegetation from potential damage caused by harvesting activities.

If required, high stumps will be retained where the cutblock borders existing cutovers to allow for delineation of openings during future silviculture treatments.

\* Note that this compartment will be harvested to the normal 15/11cm Utilization Standards this year and scaling data will be collected and reported on those parameters.

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**GROUND RULE DEVIATION**

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Due to the small size of some of the proposed blocks, the in-block road disturbance may exceed 5%; however, the overall road disturbance for this compartment will not exceed 5%. The overall road width is 8.0 meters when the debris is piled on the side of the road, however after reclamation and the debris is pulled back on to the road on new cut roads we assume 6m of disturbance and on existing seismic lines we assume 4m of disturbance. The in-block roads that exceed 5% or have the potential to exceed 5% occur in blocks 9025, 9036, and 9037.

There is some area that is being added outside of period one, however the variance for this compartment is still less than 20 percent. There are some stands between HWY 88 and the Wabasca River that are part of the SHS that have not been included as yet for harvest but are still taken into consideration as part of a strategic plan to assess them for harvest at a later time. The fact that Footner Forest Products is indefinitely shutdown allows the company to target conifer-leading stands and avoid harvesting stands with more aspen content. The proximity of this compartment to the Mill also allows the opportunity to make adjustments like this that theoretically will not affect later decisions the same way it might a more distant compartment.

Recent harvesting activities occurred in this compartment as recent as 1998 - 2006. The previous cut blocks near Block 9013 have had anywhere from 3 – 11 years period of growth. In most instances, where old harvest area borders on new harvest area, the common boundary exists only for small portion of either block circumference and they are in actuality separated by some margin. The planned blocks are of good merchantability, very irregular in shape, have adequate buffers along streams, and also address wildlife values.

Block 9013 is a large block that is mainly one stand type that is spruce-leading and the company would like to make one entry into this block to remove all the wood. This entry would mimic a natural disturbance event that leaves retention and deletion patches to address distance to hiding cover requirements. There is a component of aspen that will be left standing in the block that will also add more retention.

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**INTEGRATION WITH OTHER USERS**

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Tolko Industries Ltd. (HLLD) and La Crete Sawmills Ltd. is committed to open communication with all stakeholders to address any questions or concerns that may arise when development activities affect their interests. In an effort to be proactive in this regard, the companies have initiated communication with all users that may be impacted by these harvesting activities.

USER	DATE	CONTACT METHOD	RESPONSE
TPA 35, Lloyd Auger	September 14, 2009	REGISTERED MAIL	None to Date
TPA 79, Clifford Auger	September 14, 2009	REGISTERED MAIL	None to Date
TPA 179, Tall Cree Band	September 14, 2009	REGISTERED MAIL	None to Date
Dene Tha First Nation	September 30, 2009	REGISTERED MAIL	None to Date
Little Red River Cree Nation	September 30, 2009	REGISTERED MAIL	Oct 8, 2009 by Email
Tall Cree First Nation	September 30, 2009	REGISTERED MAIL	Oct 28, 2009 by Phone Call
Beaver First Nation	September 30, 2009	REGISTERED MAIL	None to Date
Lubicon Lake First Nation	September 30, 2009	REGISTERED MAIL	None to Date
Paddle Prairie Metis Settlement	September 30, 2009	REGISTERED MAIL	None to Date
Alberta Professional Outfitters Society	September 14, 2009	Letters	Received list of outfitters for the area. The companies have sent letters to all these outfitters.

Tolko and/or La Crete Sawmills Ltd. have communicated with all the above stakeholders. If any concerns are brought to the company's attention before, during, or after harvest operations by any of these users they will be addressed as soon as they arise.

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**ACCESS MANAGEMENT**

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Portions of the companies proposed haul roads are located within the wildlife zone. These portions will be disabled at or before the entrance into the ungulate zone by logs, snow berm or equipment when there are periods of inactivity exceeding 48 hours. They will remain disabled until the roads become active again or access into the ungulate zone is not possible through climate conditions.

Haul roads will be planned and located where existing approaches or roads are whenever possible. For in-block roads, all existing roads and seismic lines will be utilized where it makes operational sense.

There are no permafrost areas within the plan. There are no areas of ecological significance that have been removed from the gross land base in the planning area.

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## HIGHLY SENSITIVE AREAS

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There are highly sensitive areas on the north and east aspects of the Buffalo Hills. This area has creeping and slumping of soils. This movement of soils is spread across the hill side and has been active for many decades. The harvest areas have been laid out around these areas and have excluded large slumping areas. Vegetated buffers have been left at top of breaks to help support the terrain structure and reduce probability of further soil movement.

There is one trapper's cabin near HWY 88. The cabin is outside the block boundary and therefore has been protected to conserve its integrity. There are also a couple of hunting camps along HWY 88 that will be avoided with operations.

In the larger cut blocks retention patches will be located strategically to address line of sight and distance to hiding cover for wildlife requirements. Line of sight requirements will also be met using road-side lesser vegetation, and merchantable deciduous left standing in the block. During harvesting operations all operational buffers will be harvested unless they contain wet ground or are retained to meet merchantable retention targets set out in the DFMP or other previously mentioned wildlife requirements. Where possible, retention will serve multi-purpose objectives to align with higher order plans.

Six of the blocks in this harvest area fall within the Ungulate Winter Range that parallels the Wabasca River. This compartment will be sequenced to harvest first with the goal of completing operations before the critical January 15<sup>th</sup> deadline.

There is a Permanent Sample Plot that was identified in the area of Block 9037. The block boundary has been designed to leave the plot untouched with a protection buffer around it.

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## ROAD DESIGN

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The primary intended corridor to access this wood is Highway 88. The highway itself is outside the Ungulate Winter Range for the most part.

The road designed to access Block 9037 which lies over the banks leading to the Wabasca River will involve some substantial cutting and filling to make it usable. This road is "New Cut" from the top of the bank and into and through the block. It will be appropriately reclaimed after use although only temporarily. The plans are that this road will see future use for upcoming harvest operations across and on the west side of the Wabasca River.

The secondary corridor is a temporary road across from the Tall Cree South Indian Reservation. This road travels past a gravel pit and across Ratt Creek. This road will access the blocks at the bottom and the side of the north facing Buffalo Hills.

The road widths for all temporary roads in and around the harvest are target 8.0 meters with a 6.0-meter running surface. Existing infrastructure will not be modified to accommodate harvesting or hauling operations, unless specified by the disposition holder.

For non-existing stream crossings appropriate crossings will be constructed. Due to the fact harvesting will occur only under frozen conditions snow/ice/log fills will be used for crossing structures.

During reclamation of roads the companies will leave an opening on roads for access that will be used to facilitate access for pile burning and silviculture activities while maintaining historical access for trappers and other users.

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#### **RECREATION AND TOURISM**

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- There is extensive trapping, hunting and outfitting activity in the area of operations. The companies will contact all trappers prior to harvesting activities commencing and will strive to cooperate with outfitters that are common along Highway 88. Structures such as tree stands etc. are known to exist and they will be avoided wherever and whenever they are encountered.

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#### **WILDLIFE**

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- Six blocks fall partly within the Ungulate Winter Range.
- No blocks in this plan fall within the Caribou Protection Area.
- There are no species of special interest located within this compartment.
- There are no areas of biological interest located in this compartment (ie. ANHIC).
- This Final Harvest Plan does not occur near any Trumpeter Swan water bodies.
- There is no identified critical habitat or food source for wildlife present in the area such as nesting sites or terrestrial lichen.
- If common wildlife to the area is encountered measures will be taken to avoid stressing or harming the wildlife.
- The block boundaries are based on natural features such as stand types and watercourses. Where this leads to large blocks merchantable retention patches will be left to minimize the distance to hiding cover for various wildlife species.

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#### **INSECT AND DISEASE**

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- There are no known insect or disease issues that we know of in the area.

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#### **FIRE MANAGEMENT ACTIVITIES**

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- In accordance to Tolko's Interim strategy for incidental deciduous and considering only 20% will be felled within a particular block this compartment has no harvest blocks that will exceed the allowable threshold of 20 stems/ha. Therefore no blocks in this compartment require 50% of the incidental deciduous to be skidded to roadside and decked, and/or piled for hauling, and/or disposal.

- Blocks 1169, 1178, 1179, 1181, 1400, 1401, 3220, 3221, 9036, 9037, and 9038 fall within the ten kilometer Fire Smart Zone of Tall Cree IR #173. As part of the debris management strategy, these blocks will see 100% disposal of all top piles rather than retain them for wildlife habitat or other landscape management objective.

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**OVERLAPPING TIMBER DISPOSITIONS**

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Timber Dispositions affected by this FHP include Footner Forest Products Ltd., Tolko Industries Ltd. – (HLLD), and Daishowa-Marubeni International Ltd.

DISPOSITION HOLDER	DISPOSITION NUMBER	ACCEPTANCE
DMI	DTAF260006	Yes
FFP	FMA 0200040	Yes
HLLD	FMA 0200040	Yes

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**VALIDATION BY REGISTERED FOREST PRACTITIONER**

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Plan Prepared by:



Aaron Doepel, RPFT  
Woodlands Manager  
La Crete Sawmills Ltd.

September 30, 2009  
Date

# APPENDIX I

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## BLOCK SUMMARY



# APPENDIX II

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ACCESS

Appendix II  
Access  
WN503\_06

Road Number	Block Number	LOC Number	Classification	Season of Use	Corridor Width	Crossing Number	Stream Classification	Non-Frozen Crossing Type	Frozen Crossing Type
WN5M6S3	1056	N/A	IV	Winter	8m	N/A	N/A	N/A	N/A
	1169	N/A	IV	Winter	8m	N/A	N/A	N/A	N/A
	1178	N/A	IV	Winter	8m	N/A	N/A	N/A	N/A
SKID	1178	N/A	IV	Winter	8m	9534	Ephemeral	N/A	Snow/Log/Ice Fill
	1179	N/A	IV	Winter	8m	N/A	N/A	N/A	N/A
INBLK	1181	N/A	IV	Winter	8m	2882	Intermittent	N/A	Snow/Log/Ice Fill
	1400	N/A	IV	Winter	8m	N/A	N/A	N/A	N/A
INBLK	1400	N/A	IV	Winter	8m	2903	Intermittent	N/A	Snow/Log/Ice Fill
INBLK	1400	N/A	IV	Winter	8m	6337	Intermittent	N/A	Snow/Log/Ice Fill
INBLK	1400	N/A	IV	Winter	8m	6338	Intermittent	N/A	Snow/Log/Ice Fill
	1401	N/A	IV	Winter	8m	N/A	N/A	N/A	N/A
	3220	N/A	IV	Winter	8m	N/A	N/A	N/A	N/A
	3221	N/A	IV	Winter	8m	N/A	N/A	N/A	N/A
SKID	3221	N/A	IV	Winter	8m	9531	Ephemeral	N/A	Snow/Log/Ice Fill
SKID	3221	N/A	IV	Winter	8m	9532	Ephemeral	N/A	Snow/Log/Ice Fill
SKID	3221	N/A	IV	Winter	8m	9533	Ephemeral	N/A	Snow/Log/Ice Fill
	9002	N/A	IV	Summer/Winter	8m	N/A	N/A	N/A	N/A
INBLK	9002	N/A	IV	Summer/Winter	8m	8625	Ephemeral	Log Fill	Snow/Log/Ice Fill
	9013	N/A	IV	Summer/Winter	8m	N/A	N/A	N/A	N/A
INBLK	9013	N/A	IV	Summer/Winter	8m	9285	Ephemeral	Log Fill	Snow/Log/Ice Fill
	9016	N/A	IV	Summer/Winter	8m	N/A	N/A	N/A	N/A
	9025	N/A	IV	Summer/Winter	8m	N/A	N/A	N/A	N/A
	9036	N/A	IV	Summer/Winter	8m	N/A	N/A	N/A	N/A
WN5M1	9037	N/A	IV	Summer/Winter	8m	N/A	N/A	N/A	N/A
	9037	N/A	IV	Summer/Winter	8m	N/A	N/A	N/A	N/A
	9038	N/A	IV	Summer/Winter	8m	N/A	N/A	N/A	N/A
WN5M6		N/A	IV	Winter	8m	N/A	N/A	N/A	N/A
WN5M6S3		N/A	IV	Winter	8m	N/A	N/A	N/A	N/A
WN5M20		N/A	IV	Winter	8m	2002	Small Perm	N/A	Snow/Log/Ice Fill
WN5M20		N/A	IV	Winter	8m	2897	Small Perm	N/A	Snow/Log/Ice Fill
WN5M20		N/A	IV	Winter	8m	2899	Intermittent	N/A	Snow/Log/Ice Fill

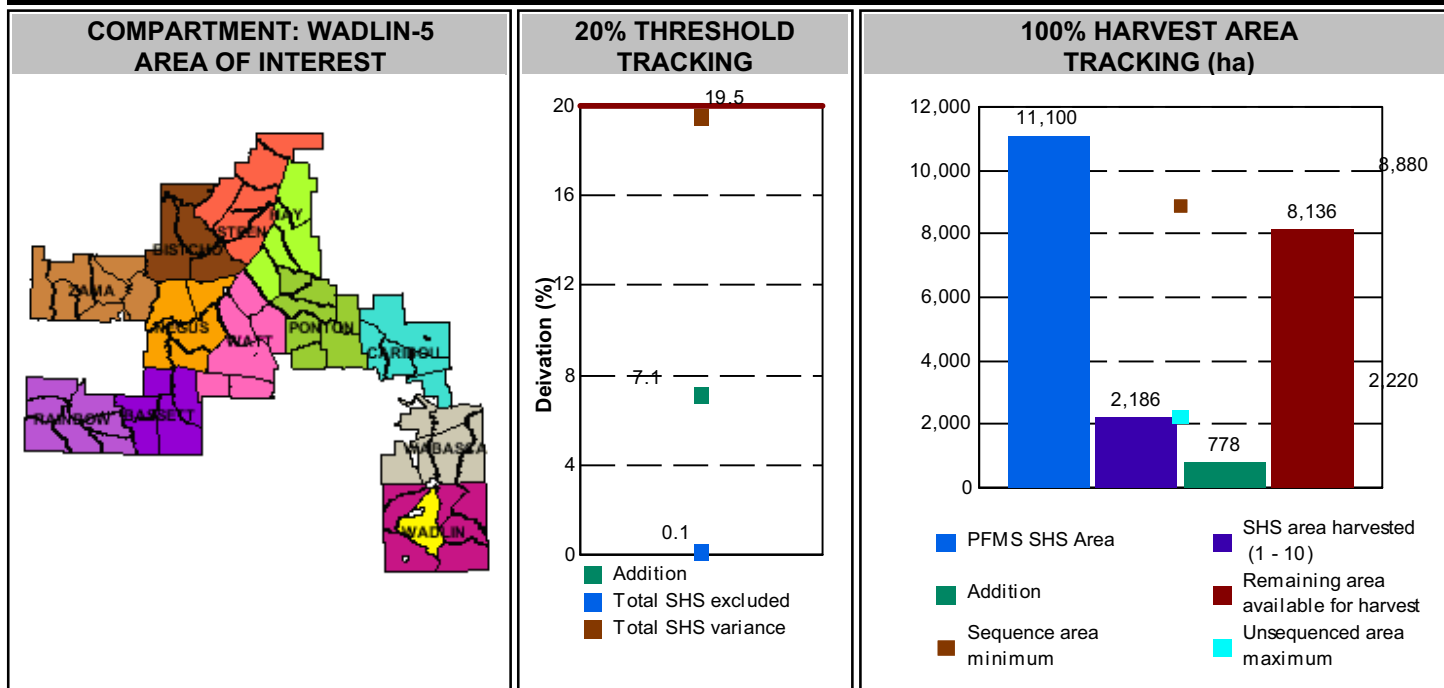


# APPENDIX III

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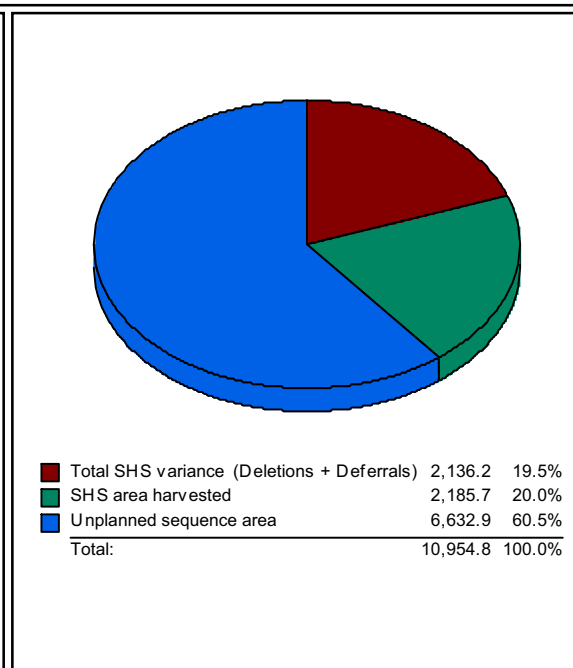
SPATIAL HARVEST SEQUENCE VARIANCE

**CUMULATIVE SPATIAL HARVEST SEQUENCE (SHS)  
VARIANCE MONITORING REPORT**



SUMMARY CLASS	SPECIES GROUP AREA (ha)										TOTAL AREA (ha)
	C-Sw	C-Sb	C-P	CD-Sw	CD-Sb	CD-P	DC-S	DC-P	D	NF	
PFMS 10 year SHS	5,837	132	2	953	0	0	608	0	3,568	0	11,100
SHS area harvested (1-10)	1,390	12	0	230	0	0	215	0	339	0	2,186
SHS area harvested (11-20)	3	0	0	2	0	0	0	0	0	0	6
Non-SHS net landbase harvested	390	8	1	33	0	0	50	0	234	0	717
Non-SHS passive landbase harvested	3	22	0	0	0	0	0	0	3	28	56
Remaining area available	4,050	90	0	688	0	0	343	0	2,992	-28	8,136

SUMMARY OF SHS AREA		
SHS CATEGORIES	AREA (ha)	PERCENT (%)
<b>Deletions</b>		
Cover type inaccuracies	0.0	0.0
Management Considerations	0.0	0.0
Landbase errors	10.8	0.1
Operational Considerations	0.0	0.0
<b>Total SHS area excluded</b>	<b>10.8</b>	<b>0.1</b>
<b>Deferrals</b>		
Economic reasons	289.4	2.6
Management Considerations	0.0	0.0
Operational Considerations	1,710.0	15.6
100% Threshold Constraint	0.0	0.0
Isolated	2.7	0.0
Retention	123.3	1.1
<b>Total SHS area deferred</b>	<b>2,125.4</b>	<b>19.4</b>
<b>Total SHS variance (Deletions + Deferrals)</b>	<b>2,136.2</b>	<b>19.5</b>
SHS area harvested	2,185.7	20.0
Unplanned sequence area	6,632.9	60.6
<b>Total SHS area</b>	<b>10,954.8</b>	<b>100.0</b>



# APPENDIX IV

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LAND USE



# APPENDIX V

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BLOCK COMMENTS

**Appendix V  
Block Comments  
WN503\_06 FHP**

1056	Yes	No	Yes	No	No	No	No	No	No	No	No	No
1169	Yes	No	Yes	No	No	No	No	No	No	No	No	No
1178	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No	No
1179	Yes	No	Yes	No	No	No	No	No	Yes	No	No	No
1181	Yes	No	Yes	No	No	No	No	No	Yes	No	No	No
1400	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No	No
1401	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No	No
3220	Yes	No	Yes	No	No	No	No	No	No	No	No	No
3221	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No	No
9002	Yes	No	Yes	No	No	No	No	No	Yes	No	No	No
9013	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No	No	No
9016	Yes	No	Yes	No	No	No	No	No	No	No	No	No
9025	Yes	No	Yes	No	No	No	No	No	No	No	No	No
9036	Yes	No	Yes	No	No	No	No	No	Yes	No	No	No
9037	Yes	Yes	Yes	No	No	No	No	No	Yes	No	No	No
9038	Yes	No	Yes	No	No	No	No	No	Yes	No	No	No

\* Although there are no heritage sites within the proposed cut blocks there are cabins and tree stands in the vicinity of our cut blocks that possess some historical significance. These will be avoided and protected while harvesting operations are underway.

\* The affirmative indicated for Wildlife sites listed in the above table simply reflects that the corresponding block is within the Ungulate Winter Range.

\* **NOTE: Understory stocking in the following “Block Comments” refers to stocking of the understory in the block and not acceptable understory trees. The acceptable understory trees will be a minor percentage of this stocking. Priority will be to avoid 50% of acceptable stems that are 2m or more in height, are within 75% of the average understory stand height, have 50% or more live crown, are of good health and vigor, and are crop trees as defined by the survey manual.**

Block 1056

This is a 13.77 ha block with an average AVI call of A28A8B2. There is a flat 2.7 ha area with an average AVI call of C28Sw10. Understory has a uniform distribution of <400 stems/ha. Avoidance strategy will be used for understory protection. Through its size and shape, this block meets the distance to hiding cover objective for wildlife. There will be retention left sanding where operationally feasible to accomplish the 1% retention objective and to add wildlife and thermal cover. The access to this block is via road WN5M6 and WN5M6S3 leading from HWY 88. There are no creeks inside the block.

Block 1169

This is a flat 2.7 ha area with an average AVI call of C28Sw10. Understory has a uniform distribution of <400 stems/ha. Avoidance strategy will be used for understory protection. Through its size and shape, this block meets the distance to hiding cover objective for wildlife. There will be retention left sanding where operationally feasible to accomplish the 1% retention objective and to add wildlife and thermal cover. This block lies directly along haul road WN5M20. There are no water courses in the block.

**Appendix V  
Block Comments  
WN503\_06 FHP**

Block 1178

This is a rolling 11.9 ha area with an average AVI call of A28S10. This block has a detailed harvest plan including roads because of the sensitivity of the terrain realized by areas of slumping. This block has an average slope of 21-30%. There is minimal understory in this block. Avoidance strategy will be used for understory protection. The block meets the distance to hiding cover objective for wildlife. The limiting factor within this block is slash loading.

There is a cut line that runs north-east through the center of the block. The block is found between two small permanent creeks that have non-operational buffers to the break of the slope. There is a short ephemeral creek that exists along the eastern boundary of the block. The southern boundary edge follows a draw.

Haul road WN5M20 accesses this block through the eastern side. Block roads are designed to head west off this haul road across the hill side, with the contour. There is a short ephemeral water courses within the block. Water course crossing 9534 has been added to allow skidding across the water course.

Block 1179

This is a 38.3 ha area with an average AVI call of B25Sw7Aw2Bw1. There is insect/disease on the over mature conifer stems within the block. Understory has a clumped distribution of <400 stems/ha. Avoidance strategy will be used for understory protection. Through its size and shape, this block meets the distance to hiding cover objective for wildlife. There will be retention left sanding where operationally feasible to accomplish the 1% retention objective and to add wildlife and thermal cover. The limiting factor within this block is grass.

This block is found between two small permanent creeks that have non-operational buffers of 50m due to the >45% slope. The block boundary was ribboned to the top of the slope. An addition was made to the southern part of the block in order to avoid isolating aspen. The eastern boundary follows a >45% slope along the small permanent creek.

The eastern half of this block is in the ungulate winter area.

The block is accessed using road WN5M20S2. There are no water courses within the block.

Block 1181

This is a 20.7 ha area with an average AVI call of B27S10. There is insect/disease on the conifer within this block. Understory has an irregular distribution of <400 stems/ha. Avoidance strategy will be used for understory protection. Through its size and shape, this block meets the distance to hiding cover objective for wildlife. There will be retention left sanding where operationally feasible to accomplish the 1% retention objective and to add wildlife and thermal cover. The limiting factor within this block is grass.

This block consists of 2 pieces. Along the northern boundary there is a small permanent creek that contains a non-operational buffer of 50m due to the >40% slope. Within the north-center, there is a finger heading north that has an ephemeral bisecting it at its entrance.

The eastern half of this block is in the ungulate winter area.

**Appendix V**  
**Block Comments**  
**WN503\_06 FHP**

The main haul road, WN5M20S1, comes from block 1401 into the south-western edge of the block. The in-block road runs through the center of the block at a north-west aspect. A branch of the road goes into the finger along the north-central side of the block. The ephemeral water course here has crossing 2882 over it to access the finger. There will be a skid trail to the small island of timber on the south west side.

Block 1400

This is a rolling 16.1 ha area with an average AVI call of C28Sw10. This block has a detailed harvest plan including retention and roads because of the sensitivity of the terrain realized by areas of slumping. Conifer and deciduous stems are over mature and contain insect and disease. Understory has an irregular distribution of 600-801 stems/ha. Avoidance strategy will be used for understory protection. Through its size and shape, this block meets the distance to hiding cover objective for wildlife. There will be retention left sanding where operationally feasible to accomplish the 1% retention objective and to add wildlife and thermal cover. The limiting factor within this block is slash loading.

This block lies directly off road WN5M20. There is a steep slope down to an intermittent creek through the middle of the block. Crossing 6338 is located outside the block over this creek. There is a permanent creek along the eastern boundary. The boundary was laid out at the top of the break and 30m away from the creek. There are two crossings, 2903 and 6337, over this creek to access the block.

Block 1401

This is a rolling 23.2 ha area with an average AVI call of C28Sw9Aw1. This block has a detailed harvest plan including retention and roads because of the sensitivity of the terrain realized by areas of slumping. This block has a slope of 21-30%. Understory has an irregular distribution of <400 stems/ha. Avoidance strategy will be used for understory protection. Through its size and shape, this block meets the distance to hiding cover objective for wildlife. There will be retention left sanding where operationally feasible to accomplish the 1% retention objective and to add wildlife and thermal cover. The limiting factor within this block is slash loading.

This block borders a small permanent creek to the west. In the south east area there is an ephemeral creek that flows out of the block that there is no need to cross. The eastern boundary is placed along the edge of slopes. There is inoperable terrain to the east of the block.

Road WN5M20S1 comes into the northern part of the block at a south-east aspect. The in-block road travels through the block at a south-west aspect. The road branches to the south-east and eventually out of the block. The haul road continues into block 1181.

There are no creeks within the block.

Block 3220

This is a 9.41 ha area with an average AVI call of C25Sw7Aw2PL1/ B17Fb6Sw2bw2. The block is gentle sloping from 11-20%. Understory has an irregular distribution of 400-600 stems/ha. Avoidance strategy will be used for understory protection. There are no limiting silviculture factors within this block. Through its size and shape, this block meets the distance to hiding cover objective for wildlife. There will be retention left sanding where operationally feasible to accomplish the 1% retention objective and to add wildlife and thermal cover.

**Appendix V**  
**Block Comments**  
**WN503\_06 FHP**

The southern block edge has a non-operable buffer for an intermittent creek. The south boundary of the south-west corner has 30-40% slope facing towards the block. Within the block there is a 25-30% slope facing north-west. There is an ephemeral water course that becomes an intermittent along the western boundary. The non-operational buffer was placed at the top of the break of the slope. Along the western boundary of the block there is fir understory.

This block is accessed with road WN5M23. There are no water courses within the block. There are no cultural and historic sites.

Block 3221

This block was labeled as 1204 in the field. This is an 8.39 ha area with an average AVI call of B24S10-85G. The block is rolling from 21-30% slope. This block has a detailed harvest plan including retention and roads because of the sensitivity of the terrain realized by areas of slumping. Understory has a clumped distribution of 400-600 stems/ha. Avoidance strategy will be used for understory protection. The limiting factors are duff, scrub, rose, and grass. Through its size and shape, this block meets the distance to hiding cover objective for wildlife. There will be retention left sanding where operationally feasible to accomplish the 1% retention objective and to add wildlife and thermal cover.

The block is located between to small permanent creeks. There are two small permanent creeks and buffers located along the west and eastern edges of the block. Just south-west of the block, there is a 45% slope facing to the north-east, which contains slumping. Inside the block, there is an ephemeral water course, which is located along a cut line that cuts through the middle of the block. The creek develops into an intermittent creek and leaves this cut line half way through the block and leaves the block through the eastern boundary. The main haul road, WN5M20, runs along this cutline to where the creek is on it, and then it runs adjacent to it as a new cut road so the water course is not crossed by any form of roading. It will be necessary however to skid across the ephemeral water course which follows the cutline and three water course crossings (9531, 9532, 9533) have been identified for such. The northern part of block 3221 connects with block 1178.

Block 9002

This is a relatively large conifer-leading block with an average AVI field call of C27Sw8Aw2 with no notable understory present. The conifer stands to the west are on slopes that can't be harvested due to horse logging constraints on slopes.

This block was laid out as a result of Tolko's deferral of horse logging blocks in Wabasca 1 two years ago. The block will be accessed via the old block road in block 2023, now labeled Road WN5M24. Ephemeral water course crossing 8625 is on this road as it enters the block. New cut access will be required once off the old block road.

The block is fairly equal distance between Highway 88 to the east and the Wabasca River to the west.

The in-block road design has been developed to accommodate horse logging operations. Skid distances have been maximized to 75 meters.

The vast majority of this block is in the ungulate winter area.

**Appendix V**  
**Block Comments**  
**WN503\_06 FHP**

Block 9013

This is a large conifer-leading block of a 128.1 hectares with an average AVI field call of C28Sw7Aw3 with an irregular A14Sw5Aw5 understory of approximately 400sph. There are seven internal deletions within the block consisting of a variety of unmerchantable coniferous, wet willow/shrub patches and unmerchantable deciduous. There are also six merchantable retention areas within the block consisting of predominantly deciduous and some coniferous content. Together these help break up the line of sight and the distance to hiding cover associated with the large block. Access to this block leads directly off HWY 88 and the block boundary lays adjacent to the highway for about 250 meters. There are three very short ephemeral watercourses known within the block, one of which is crossed with the internal block road using crossing 9285. There should be no need to cross the other two. There is, as well, an intermittent water course that runs through the north west end of the harvest area that remains outside or between the two parts of the block. A trapper's cabin is situated outside the south boundary between the boundary and the Highway which has an appropriate buffer for protection.

The block is generally flat with a NW aspect of up to seven percent at the most. Other than that, there are no operational concerns present in this block.

About two thirds of this block is in the ungulate winter area.

Block 9016

There are two parts to this conifer-leading block with an average AVI field call of C27Sw7Aw3 with a uniform B20Sw10 understory of 600-800sph. There is a trace of merchantable Black Spruce and Tamarack particularly near parts of the block edge. The access to this block is via cutline leading west from HWY 88. There are no watercourses.

Operational concerns are minimal with understory avoidance being the main concern.

Block 9025

This is a small conifer-leading block with an average AVI field call of C26Sw7Aw3 with a uniform B20Sw10A10Sw10 understory of 600-800sph. Broken tops are mentioned consistently in the block notes. The access to this block is via cutline leading west from HWY 88. There are no watercourses.

Operational concerns are minimal with understory avoidance being the main concern.

Block 9036

This is a small conifer-leading block with an average AVI field call of C26Sw8Aw2. There is no understory worthy of mention. The block is flat and lies on top of the breaks leading south-west to the Wabasca River at about a 40-50% slope. The access to this block is via haul road WN5M1 leading west from HWY 88. There are no watercourses.

There are no operational concerns present in this block.

This block is in the ungulate winter area.

**Appendix V  
Block Comments  
WN503\_06 FHP**

Block 9037

This is a 38 hectare conifer block with an average AVI field call of B30Sw10 in the upper canopy with a B24Sw10 slightly under it. The understory consists of uniform B8Sw7Aw1Bw2 of 400-600sph. There is an internal deletion on the west side consisting of an open, grassy merchantable deciduous area. The access to this block is via haul road WN5M1 leading west from HWY 88. There is a PSP near the north boundary of the block that has been sufficiently buffered with the block boundary.

This block starts on top of the breaks leading south-west to the Wabasca River and continues over the bank and includes the flats adjacent to the river. A block road is planned that leads over the crest of the hill and follows the contour to the lower levels to reach the flats at the bottom. There are some 15-50% slopes within the block that will be harvested. The steeper slopes are short and for the most part operable with skidding taking place, of course down hill. A detailed harvest plan is included for this block as a result. If operability becomes an issue because of slope, then a decision will be made to leave timber standing. There is a 60 meter permanent buffer installed as a boundary adjacent to the Wabasca River. There are no known cabins or other items of cultural significance near the block or the river. There are no streams present within this block.

This block is in the ungulate winter area.

Block 9038

This is a small conifer-leading block with an average AVI field call of B26Sw8Aw2 with an A20Sw5Fb3Aw2 below it. The understory consists of an irregular A10Sw5Aw3Fb2 of <400sph. The block is flat and lies on top of the breaks leading south and west to the Wabasca River at about a 30-40% slope. The access to this block is via haul road WN5M1 leading west from HWY 88. There are no watercourses.

This block is in the ungulate winter area.

# APPENDIX VI

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BLOCK MAPS

# APPENDIX VII

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DETAILED HARVEST AREA PLANS

# APPENDIX VIII

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## FINAL HARVEST PLAN CHECKLIST

## FHP Checklist (WN503\_06)

Revision History			
Revision #	Revision	Revision Reason	Approved by:

### Final Harvest Plan Checklist

Area	<u>Wadlin 5</u>	Disposition Number	<u>FMA 0200040</u>
Company	<u>Tolko Industries Ltd.</u>	Date Disposition Issued	<u>September 1, 2002</u>
Season of Harvest	<u>2009/10</u>	Date Disposition Expires	<u>September 1, 2022</u>
CTQ/DTA Number	<u> </u>	Submission Date	<u>September 30, 2009</u>

APPROVAL ITEM	YES/NO	INITIAL/DATE
Validated by RFP	Yes	/Sept. 30, 2009
Variance <20% compartment/decade	Yes	/Sept. 30, 2009
Sum of proposed area to harvest and previously harvested area does not exceed 100% SHS	Yes	/Sept. 30, 2009
Compartment Assessment Required	No	/Sept. 30, 2009
Adheres to all Ground Rules	No	/Sept. 30, 2009
Plan signed by imbedded tenure holders	Yes	/Sept. 30, 2009

Company Y,N,N/A      SRD Y,N,N/A

### Administrative Considerations

- Copies of FHP to:		
Area Planning Forester		<u> </u>
Forest Officer		<u> </u>
Fish & Wildlife		<u> </u>
other		<u> </u>
- FHP consistent with approved higher order plans (DFMP, SHS,GDP)		<u> </u>
Required disposition has been issued and is active		<u> </u>
FHP complete and legible		<u> </u>
maps	Yes	<u> </u>
block tables	Yes	<u> </u>
reforestation program (Appendix I declares reforestation Regime; Silviculture Plan is separate)	Yes	<u> </u>
detailed block plans where requested	Yes	<u> </u>
contingency plans	N/A	<u> </u>
- Copies require as per FMA or regional OGR	Yes	<u> </u>

### Utilization

- Variance reported and summarized for FHP	Yes	<u> </u>
Utilization standard matches tenure document	Yes	<u> </u>
Deviations from utilization standards are identified, explained and justified (rub posts, high stumps, retention, etc.)	Yes	<u> </u>

### Ground Rules Deviations - If Answered "No" Above

- All blocks containing ground rule deviations have been identified	Yes	
- Explanation and justification provided for all ground rule deviations	Yes	

### Integration with Other Users

- If the plan is not integrated, explanation and justification are provided	Yes	
- Recipient of incidental volumes and chargeability is identified	Yes	
- Trappers have been identified and contacted	Yes	
- Trappers cabins, trails and other improvements are identified and integrated into the plan	Yes	
- Recreational groups have been identified and contacted where issues have been observed.	Yes	
- GTA completed and grazing disposition holders have been contacted (Directive 2006-01)	N/A	
- Historical sites have been identified and integrated into plan	N/A	
- Any issues raised by other users or the public have been documented	Yes	
- Potential land use conflicts have been documented and mitigated (PNT, CNT, road use agreements, etc.)	Yes	

### Access Management

- Access management , including control measures have been described (location, timing,, signage, etc.)	Yes	
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### Sensitive Sites

- Aesthetic/recreation concerns addressed	N/A	
- Water source areas identified and potential impacts mitigated	N/A	
- Permafrost/peat land areas impacted by operations are identified, explained and justified (detailed blocks plans submitted)	N/A	

### Road Design

- Location, design and width of corridors haven been identified	Yes	
- List of watercourse crossings including crossing type, watercourse classification, map identifier, etc.	Yes	
- Crossings not exempt under the <i>Water Act</i> are identified	N/A	
- Any proposed permanent access in Caribou zones, Grizzly bear zones, or ungulate winter range has been identified, explained and justified	N/A	
- Existing access and LOC's integrated into the plan are identified	Yes	
- Road reclamation and abandonment plan included	No	
- Removal and reclamation of old crossings is identified	No	

### Wildlife

- Wildlife zones within the planning area are identified and addressed	Yes	
- Harvest areas with timing restrictions identified. Block sequence may be required.	Yes	
- All known sensitive wildlife sites have been addressed (mineral licks, raptor nests, den sites, etc.)	Yes	

### Insect, Disease & Fire

- The FHP has complied with direction provided in Community firesmart Plans.	Yes	
- Known insect and disease infestations are identified and described	N/A	
- Mitigation of infection, diseases or endangered timber described	N/A	
- Debris disposal methods identified (GDP)	Yes	

### Silviculture

- Watercourse crossings maintained for silviculture purposes are identified	N/A	
- Pre-harvest strata declaration is included (Appendix I)	Yes	

- FHP's are approved through acceptance and will be considered approved on the date Alberta acknowledges receipt of the work.

- Alberta shall notify the organization by acknowledging receipt within 5 working days of submission.
- The notification date will be documented by Alberta as the start date of the FHP approval.
- Alberta shall periodically check the work and supporting documentation to verify its accuracy.
- At any time, approval can be revoked where Alberta learns the FHP is inaccurate or deficient in content.

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**Company Sign Off**

*Aaron Deepel*

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Submitted RFP Validation

La Crete Sawmills Ltd.

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Company

Oct. 30, 2009

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Date

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Submitting RFP Validation  
(for integrated plans)

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Company  
(Integrated operator)

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Date

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**SRD Sign Off**

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Reviewing RFP Validation

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Date

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