

June 2, 2009

**DAISHOWA-MARUBENI INTERNATIONAL LTD.
Peace River Pulp Division**

FINAL HARVEST PLAN

INTRODUCTION

This plan for **Operating Area EP-WhiskeyJack** issued under **Forest Management Agreement 8900027** covers the operating period from May 1, 2009 to April 30, 2014.

The proposed location of manufacture for deciduous volume harvested under the authority of this plan is the Daishowa-Marubeni International Ltd., Peace River Pulp Mill located near Peace River, Alberta.

Incidental coniferous timber harvested as a result of deciduous harvesting operations, will be offered to Boucher Brothers Lumber in Nampa, Alberta and Alberta Plywood Ltd. in Slave Lake, Alberta.

Upon delivery to the respective mill sites all material will be weigh scaled.

<u>DECIDUOUS PRODUCTION (Quadrant)</u>
Proposed production for this timber year:
Deciduous Dominated Stands: 176,327 m³ Incidental Coniferous: 47,934m³

WOOD OPERATIONS

Deciduous **operating conditions and merchantability standards** are subject to the Manning Diversified Forest Products Ltd. Operating Ground Rules, Alberta Timber Harvest Planning and Operating Ground Rules, Operating Conditions listed in Section 5 of PRPD's General Development Plan and any additional Operating conditions listed in the Alberta Sustainable Resource Development (ASRD) Letter of Approval.

The coniferous operations and merchantability standards will comply with the Alberta Timber Harvest Planning and Operating Ground Rules and any additional Operating conditions listed in the ASRD Letter of Approval.

ACCESS DEVELOPMENT

Prior to company use of any existing road, pipeline, power line, well site or other disposition held by a third party, the consent of the holder will be obtained.

Reclamation will be concurrent with completion of operations. The access development and reclamation will follow the company's weed control plan.

Licences of Occupation:

Number	Held By:	Road Class	Season of Operation	Access Control
RRD9122256	Northern Sunrise County	III	Dry weather or winter	NA
RRD9122257	Northern Sunrise County	III	Dry weather or winter	NA
RRD9123573	Northern Sunrise County	III	Dry weather or winter	NA
LOC940184	Huskey Oil	V	Winter	NA
LOC032247	DMI	V	Winter	NA
LOC0000206	Baytex	V	Winter	NA
LOC920770	DMI East Haul Road	III	Dry weather or winter	Gate at 56 KM
LOC991030	Baytex	V	Winter	NA

Road Construction

Class V Roads

In-block roads will be installed during harvest of AOP approved blocks for that harvest season . The block roads will be reclaimed upon completion of hauling. See Table 1(Final Harvest Plan Report) in appendix 1.

STREAM CROSSINGS

The table below lists the crossings to be utilized to access the blocks listed in The final Harvest Plan Report. This table does not list crossings that are located on routes held under LOC by DMI or other companies.

The removal of crossings constructed with snow or log fills will be removed after operations are completed.

The crossings listed in this table do not require any approval from Department of Fisheries and Ocean Canada or the Water Management Division of Alberta Environment.

Crossing No.	Structure	Stream Class	Company
1	Snowfill	Intermittent	DMI
2	Snowfill	Intermittent	DMI
3	Snowfill	Intermittent	DMI
4	Snowfill	Intermittent	DMI

OPERATIONS

Deciduous harvesting will utilize a Feller-buncher, grapple skidder, bush chipper and chip trucks to haul chips to the pulp mill.

Coniferous harvesting will be mechanized and completed with a feller-buncher, grapple skidder, and stroke delimeter with tree-length haul to the sawmill.

TRAPPER and OTHER USER NOTIFICATION

All Trappers and other identified user groups will receive a copy of this Final Harvest Plan.

Number	Holder	Contact Date	Method
1573	Dollard Dollaire	May 2009 FHP	Registered Mail
1621	Lawrence Hunter	May 2009 FHP	Registered Mail
2508	Gene Alm	May 2009 FHP	Registered Mail

DESIGN CONSIDERATIONS

The deciduous component of this plan was designed with objectives from the 2007 DMI Detailed Forest Management Plan and PRPD's 2009 GDP.

1. Implement a single-pass harvest system that utilizes natural stand boundaries as block boundaries to avoid potential fragmentation of the landbase.
2. Retain merchantable volume within harvested areas in the three designated classes of retention outlined in PRPD's "Retention Strategy". This retention will contribute to the overall goal of retaining 15% at the landscape level. The actual retention for individual blocks will vary between 0 and 30%. Planned retention for the blocks is contained in Table 1, Appendix 1.
3. Design in-block roading that minimize road construction, reclamation requirements, and access throughout the area after harvest.

CUTBLOCK SUMMARY

The cutblock summary is listed in Table 1(Final Harvest Plan Report) Appendix 1.

RETENTION

For block retention summaries please refer to the Final Harvest Plan Report (Table 1).

VARIANCE

For operating area variance refer to Appendix 1 Table 2 (Variance Report). The variance is greater than 20% because of the contingency blocks (234-239). These blocks have been checked on the ground and the wood is merchantable. Most of the areas are in the second period of the 2007 sequence but there are some areas that are straight additions. The new forest cover indicates that this wood is merchantable and harvestable and will likely fall into period one of the new sequence. These contingency blocks were planned in the event that the harvesting within the winter ungulate zone would not be able to be completed by mid February.

The FHP map indicates that the current conifer blocks planned by Boucher in CTLP040013 are additions and would therefore be part of the variance. This is just a mapping error and is not included in table 2 of the variance calculation.

BLOCK SEQUENCING

Approximately 56,000m³ of wood accessible under frozen ground conditions falls inside the ungulate winter range for moose and is scheduled for harvest in 2009- 2010. With only two chippers available to work in operating areas along the East Haul Road, it will be necessary to operate in the ungulate zone past the usual Jan. 15 deadline. Each chipper uses approximately 13,746m³ per month. If freeze up occurs on Dec.1, chipping operations should be completed by the end of January or early February. If DMI

processes the hog material with a grinder, a few more days will be required before reclamation would begin.

The strategy for DMI would be to begin opening access to the blocks in the ungulate zone as soon as the weather would allow and possibly begin harvesting blocks that are close to the boundary of the ungulate zone. As soon as access is available to the far blocks (213-218), operations will move in there and work back out toward the east haul road.

SLASH DISPOSAL

Slash disposal guidelines set out in section five of the 2009 GDP will be followed.

HISTORICAL RESOURCE CONSIDERATIONS

This plan's operations will comply with the Alberta Historical Resources Act. Refer to table 1 Appendix 1 for individual block status.

UNDERSTORY MANAGEMENT

Any understory encountered during layout and operations within these blocks will be assessed and protection measures implemented as indicated in DMI's understory protection guidelines. Refer to table 1 Appendix 1 for individual block status.

The inspecting Forest-Officer will be notified of any changes to the understory protection prescriptions.

REFORESTATION PROGRAM

Table 1, Appendix 1 outlines the proposed silviculture system and silviculture strategy for the blocks to be harvested.

The reclamation methods to be used are as follows:

Non-frozen ground operations: Roads and chipper sites will be ripped and rolled back, and seeding will be done as required. Road and Chipper sites will be planted with conifer seedlings.

Frozen ground operations: Piling, roll back, and seeding will be done as required.

Pre-harvest Landbase

Table1 Appendix 1 outlines pre harvest strata polygons by the four cover types based upon the current Forest Inventory data.

ENDORSEMENT OF FHP BY FMA HOLDER AND QUOTA HOLDERS
ENDORSEMENT OF FHP: **EP-WhiskeyJack**

All companies have reviewed this Final Harvest Plan, and endorse the design that is applicable to each operation.

AOP prepared by:

Name: Peggy Pike

Name: Phil Dube

Position: Forest Resources Supervisor,
Planning

Position: Planning Superintendent

Signature:

Signature:

Date:

Date

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Boucher Brothers
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Name: Murray Chomokovski
Position:

Signature:

Date:

Murray Chomokovski
Alberta Plywood Ltd.
Box 517
Slave Lake, AB
T0G 2A0
(780) 805-3691

APPENDIX 1

FHP Checklist

Area:	EP-WhiskeyJack	Disposition Number	FMA8900027
Company:	DMI	Date Disposition Issued	Sept.1989
Season of Harvest	Non-Frozen/Frozen	Date Disposition Expires	Sept.2009
DTA number		Submission date	May 28, 2009
Approval Item	Yes/No	Initial/Date	
Validated by RPF	yes		
Variance < 20% compartment/decade	No		
Sum of proposed area to harvest and previously harvested area does not exceed 100% SHS	Yes		
Compartment assessment required			
Adheres to all ground rules.	Yes		
Plan signed by imbedded tenure holders			

Administration

Digital copies of AOP to:

Area Planning Forester

Forest Officer

Fish & Wildlife

Other

FHP consistent with approved higher plans (DFMP, SHS, GDP)

Required Disposition has been issued and is active

FHP complete and legible

-maps

-block tables

-reforestation program

-detailed block plans where requested

-contingency plans

-copies required as per FMA or regional OGR

Company **SRD**

Yes

Yes

Yes

Yes

Yes

Yes

Will

provide

yes

Yes

yes

Utilization standard matches tenure document

yes

Deviations from utilization standards are identified, explained and justified(Rub posts, high stumps, retention, ect)

n/a

Ground Rule Deviations- If Answered “No” Above

All blocks containing ground rule deviations have been justified.

Explanation and justification provided for all ground rule deviations

Integration With Other Users

If plan is not integrated, explanation and justification are provided

yes

Recipient of incidental is identified

yes

Trappers have been identified and contacted

yes

Trapper 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.

n/a

GTA completed and grazing disposition holders have been contacted (directive 2006-01)

n/a

Historical sites have been identified and integrated into the plan.

none

found

Any issues raised by other users or the public have been documented

No

concerns

Potential land use conflicts have been documented and mitigated (PNT, CNT, road use agreements, ect)

n/a

Access Management

Access management, including control measures have been described and identified (location, timing, signage, ect)

yes

Sensitive Sites

Aesthetic/recreational concerns addressed

None

found

Water source areas identified and potential impacts mitigated.

None

found

Permafrost/peat land areas impacted by operations are identified, explained and justified (detailed block plans are submitted)

n/a

Road Design

Location, design and width of corridors have been identified.

Yes

List of watercourse crossings including crossing type, classification, map identifier, ect

Yes

Crossings not exempt under the Water act are identified

n/a

Any proposed permanent access in Caribou zones, Grizzly bear zones, or ungulate winter range have 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

yes

Removal and reclamation of old crossings is identified.

n/a

Wildlife

Wildlife zones within the planning area are identified and addressed.

Yes

Harvest areas with timing restrictions identified, Block sequencing may be required.

Yes

All known sensitive wildlife sites have been addressed (mineral licks, raptors nest, dens, sites ect.)

Yes

Insect , disease & fire

The FHP has complied with direction provided in Community Firesmart Plans.

n/a

Known insect and disease infestations are identified and described.

No

Mitigation of infestation, diseases or endangered timber described.

concerns

Debris disposal methods identified.

n/a

Yes

Silviculture

Watercourse crossings maintained for silviculture purposes are identified.

n/a

Pre-harvest declaration is included.

Yes

Company Sign-off

Daishowa Marubeni International

Submitting RPF Validation

Company

Date

Submitting RPF Validation
(intergrated plans)

Company

Date

SRD Sign-off

Reviewing RFO Validation

Date



Table 1 - Final Harvest Plan Report

Op Area: EP-WhiskeyJack

Block Id	Merch Area	Plan Con Vol M3	Plan Dec Vol M3	Plan Retention Patch Area	Retention Large Area (>2Ha)	Retention Small Area (<=2Ha)	Op Retention Percent	Road Number	Road Class	Road Development	PHA Complete	Op Ground Conditions	Harvest Method	Silv System	Silv Strategy	Understory	Wildlife	Historic Concern	C Area	CD Area	DC Area	D Area
0200	13.2	553.0	2,052.6	2.0			3	0200	V	Blade line, log and stump block road	No	Non Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	15.2
0201	48.8	1,754.5	9,430.3	4.0			8	0201	V	Blade line, log and stump block road	No	Non Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	51.3
0202	32.7	1,121.9	6,146.8	2.0			10	0202	V	Blade line, log and stump block road	No	Non Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	32.7
0203	61.7	3,033.0	9,917.3	5.0			8	0203	V	Blade line, log and stump block road	No	Non Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	9.4	6.6	45.8
0204	14.5	464.0	2,848.9	2.0			2	0204	V	Blade line, log and stump block road	No	Non Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	16.5
0205	23.9	962.8	4,230.8	3.0			4	0205	V	Blade line, log and stump block road	No	Non Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	25.3
0206	13.3	409.2	2,351.1	1.0			8	0206	V	Blade line, log and stump block road	No	Non Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	13.3
0207	12.2	415.2	2,034.9	1.0			8	0207	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	12.2
0208	15.6	662.0	2,037.5	1.0			8	0208	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	0.0	0.0	0.0	15.6
0209	46.3	1,637.1	9,118.2	3.0			8	0209	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	0.0	0.0	0.0	46.4
0210	30.2	1,201.4	4,798.0	3.0			8	0210	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	0.0	0.0	0.0	30.2
0211	27.5	1,002.9	4,812.3	3.0			8	0211	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	1.1	0.0	0.0	26.4
0212	5.6	190.4	1,108.7	0.0			5	0212	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	0.0	0.0	0.0	5.6
0213	15.4	545.7	3,021.1	1.0			8	0213	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	0.0	0.0	0.0	15.4
0214	18.8	710.0	3,749.0	1.0			8	0214	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	0.0	0.0	0.5	18.3
0215	13.5	514.6	2,657.4	1.0			8	0215	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	0.0	0.0	0.0	13.5
0216	15.7	468.0	2,865.9	1.0			8	0216	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	0.0	0.0	0.0	15.7
0217	12.2	537.9	2,221.9	1.0			8	0217	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	0.0	0.0	0.0	12.2
0218	23.6	934.6	3,676.6	2.0			8	0218	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	0.0	0.0	0.0	23.6
0219	25.3	860.0	3,564.7	2.0			8	0219	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	0.0	0.0	0.0	25.3
0220	51.7	1,967.3	8,898.0	5.0			8	0220	V	Blade line, log and stump block road	No	Non Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	0.0	0.0	0.0	51.7
0221	6.9	229.5	935.3	0.0			1	0221	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	0.0	0.0	0.0	6.9
0222	33.8	1,323.7	4,613.5	2.0			8	0222	V	Blade line, log and stump block road	No	Non Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	0.0	0.0	0.0	33.8
0223	9.2	374.3	1,786.5	1.0			1	0223	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	9.2
0226	9.5	299.0	1,218.3	1.0			1	0226	V	Blade line, log and stump block road	No	Non Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	9.5
0227	17.3	591.6	3,444.8	1.0			8	0227	V	Blade line, log and stump block road	No	Non Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	17.3
0228	0.7	31.7	123.1	0.0			0	0228	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	0.7
0230	6.2	212.4	1,245.3	0.0			0	0230	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	6.2
0231	19.4	648.7	3,771.6	1.0			10	0231	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	19.4
0232	15.2	499.1	2,522.9	1.0			10	0232	V	Blade line, log and stump block road	No	Non Frozen	In Block Chipping	Clearcut	LFN Suckering	No	Ungulate Winter	No	0.0	0.0	0.0	15.2
0233	8.0	219.2	1,405.7	0.0			1	0233	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	8.0
0234	37.9	672.9	6,216.8	3.0			8	0234	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	37.9
0235	58.8	3,732.0	10,706.6	5.0			10	0235	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	3.6	0.0	9.8	45.5
0236	28.2	1,508.2	5,367.1	3.0			8	0236	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	6.9	0.0	21.3
0237	20.3	630.8	3,731.9	2.0			8	0237	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	20.3
0238	5.5	167.3	1,054.6	0.0			0	0238	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	0.0	5.5
0239	41.8	2,202.1	6,090.2	4.0			8	0239	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	3.6	0.0	10.5	27.7
0240	6.8	494.9	1,019.9	0.0			0	0240	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	0.0	4.1	2.7
0241	18.5	1,143.2	3,272.4	2.0			8	0241	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	1.2	5.2	12.0
0242	43.9	3,410.8	5,232.1	4.0			8	0242	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	4.0	2.0	37.9
0245	26.6	959.2	3,494.2	3.0			8	0245	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	5.5	0.0	21.2
0246	79.6	5,311.0	9,188.4	8.0			8	0246	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.0	2.1	0.0	77.5
0247	32.8	1,680.0	3,355.6	3.0			8	0247	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.6	0.0	0.0	32.3
0248	17.8	864.4	2,838.4	2.0			8	0248	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	0.6	1.3	0.8	15.1
0249	18.7	783.1	2,149.9	2.0			8	0249	V	Blade line, log and stump block road	N/A	Frozen	In Block Chipping	Clearcut	LFN Suckering	No		No	1.3	0.0	2.0	15.5
	1,085.1	47,934.6	176,327.1	92.0															10.8	30.4	41.5	1,010.8

Table 2.Variance Summary EP-WhiskeyJack

Stratum	Total SHS Area	SHS Planned Area (ha)	Variance (ha)			Total Unplanned SHS area Within FHP (ha)	Additions (ha)	Slivers (ha)	Total FHP Area (ha)
			Deletions	Deferrals	Total				
C			0.00		0.0	0.0	228.11	7.19	235.3
CD					0.0	0.0	41.24	4.30	45.5
D	1,952.54	683.00	102.44		102.4	1,269.5	322.12	156.67	1,161.8
DC			0.00		0.0	0.0	54.61	5.19	59.8
Other			0.00		0.0	0.0	13.96	4.69	18.6
Grand Total	1,952.5	683.0	102.4		102.4	1,269.5	413.0	178.0	1,274.0
Planned BlockVariance %			15%		15%		60%		
FHP variance %			5%		5%		21%		