*** FOR APPRAISAL PURPOSES *** PERCENT REDUCTION APPLIED

Appraisal Summary Report

20-Sep-2016 09:59:43AM
Filename: t121.ccp
Compiled by: Canadian Forest Products Ltd.
Cruised by: T TEDFORD, ,
Version: 2016.00 IFS build 6004

Average Line Method
CANADIAN FOREST PRODUCTS LTD.
Licence Number: A88223 CP: 4T
Project: CP 4T
Location :

Grades: MOF Computerized
Computerized Decay
Computerized Waste
Computerized Breakage
No Of Blocks : 1

FIZ: G
PSYU: Raft
Region: 5 - Thompson-Okanagan
District: 06 - Thompson Rivers

Utilization Levels:	Minimum DBH	Top Diameter	Stump Height
Mature Blocks: (cm)	17.5	10.0	30
Immature Blocks: (cm)	12.0	10.0	30
Exception(PL): (cm)	12.5	10.0	30

Standard Log Length: (m) 5.00

Net Area: [All Treatment Units : 32.0]

All Method Summary

Species Code	Description	Net Volume (m3) All	Live	DP	Net Volume / ha All	Live	DP	Decay%	Stud Log%	LRF	All Burn%
BA	Balsam	1597	1441	156	49.913	45.029	4.884	1	73	184	0
FI	Doug-Fir	10	10	0	0.304	0.304	0.000	0	10	209	0
LO	L.P. Pine	6153	220	5933	192.283	6.868	185.414	10	50	107	0
SP	Spruce	1757	1628	129	54.895	50.866	4.029	1	37	195	0
AS	Aspen	5	5	0	0.167	0.167	0.000	36	0	142	0
	Conifer	9517	3298	6218	297.394	103.067	194.328	7	52		0
	Total	9522	3303	6218	297.561	103.233	194.328	7	52		0

Harvesting Method Summaries

Species	Harvest Method	Net Volume	Average Slope%	Net Vol /Tree	Net Vol/ha	Defect% (DWB)	Partial Cut%	All Fire%	Heavy Fire%	Down Tree%	Dead Useless%
All Species	SC	9522	20	0.33	297.561	24	97	0	0	11	0
	All Methods	9522	20	0.33	297.561	24	97	0	0	11	0
Conifer	SC	9517	20	0.33	297.394	24	98	0	0	11	0
	All Methods	9517	20	0.33	297.394	24	98	0	0	11	0

Insect Damage Net Volume (m3)

L.P. Pine Green Attack	L.P. Pine Red Attack	L.P. Pine Grey Attack	All Other Conifer Insect Damage
0	0	5582	104

L.P. Pine Red/Grey Attack % of Conifer by Block
121: 58.7%

Cutting Authority
See pre reduction compilation for statistics

Plots/Ha	1.0
Cruised Trees/Plot	4.8
Cruise Date (yy-mm):	14-10

Plots: 32 # <= 5yrs: 32 # > 5yrs: 0 # > 10yrs: 0 # no date: 0

FLAGS: Percent Reduction Applied, Normal Cruise, All Trees Compiled, Double Sampling Factor Applied, Damage, , Wet Belt Fir

*** FOR APPRAISAL PURPOSES ***

BSTND= 1 , p40

Block Stand Table (stems/ha)

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District: 06 - Thompson Rivers

20-Sep-2016 09:55:58AM
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Block : (M) - 121:T121, Plots in Block: 32, TUs: [A : 32.0]

	F	B	S	PL	AT	Total	DP	DU	LU
Utilization Limits									
Min DBH cm (M)	17.5	17.5	17.5	12.5	17.5	17.5	17.5	17.5	17.5
Stump Ht cm (M)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Top Dia cm (M)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Log Len m	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
DBH Class									
5									
10									
15				49.8		49.8	118.9		
20		58.6		22.3	28.8	109.6	117.7		
25		68.6	28.9			97.5	180.5		
30			35.5			35.5	128.9		
35			4.7			4.7	20.1		
40	3.9		8.8			12.7	28.7		
45			3.4			3.4	11.1		
50	2.5	3.4	2.8			8.7	6.7		
55									
60									
65									
70									
75									
80									
85									
90									
95									
100									
105									
110									
115									
120									
125									
130									
135									
140									
145									
150									
175									
200									
225									
250									
275									
Total	6.4	130.6	84.0	72.1	28.8	321.9			
Dead P		11.5	6.3	594.9			612.7		
Dead U									
Live U									

Average DBH(cm) at 5 Levels

12.5 +	43.1	24.0	31.1	14.9	20.4	24.7	26.1
17.5 +	43.1	24.0	31.1	19.0	20.4	26.3	28.2
22.5 +	43.1	26.4	31.1			29.7	30.2
27.5 +	43.1	49.3	33.7			35.7	34.4
32.5 +	43.1	49.3	39.9			41.8	41.1

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Double Sampling Factor Applied, Damage, , Wet Belt Fir

*** FOR APPRAISAL PURPOSES ***

P E R C E N T R E D U C T I O N A P P L I E D

Percent Reductions Applied

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District: 0E - Thompson Rivers

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Criteria			DBH Class																			
			10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	200	250			
Spcs	Type	TU	Class	Block	Damage	15	25	35	45	55	65	75	85	95	105	115	125	135	145	175	225	275			
AT	0	-				95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
FD	0	-				0	0	0	0	0	0	95	95	95	95	95	95	95	95	95	95	95	95	95	95

FLAGS: Percent Reduction Applied, Normal Cruise, All Trees Compiled, Double Sampling Factor Applied, Damage, , Wet Belt Fir

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Block Stand Table (stems/ha)

RSTND- 1 , p40

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Project: CP 4T

Grades: MOF Computerized
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FIZ: G
PSYU: Raft
Region: 5 - Thompson-Okanagan
District: 06 - Thompson Rivers

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Block : (M) - 121:T121, Plots in Block: 32, TUs: [A : 32.0]

	F	B	S	PL	AE	Total	DP	DU	LU
Utilization Limits									
Min DBH cm (M)	17.5	17.5	17.5	12.5	17.5	17.5	17.5	17.5	17.5
Stump Ht. cm (M)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Top Dia cm (M)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Log Len m	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
DBH Class									
5									
10									
15				49.8		49.8	118.9		
20		58.6		22.3	1.4	82.3	117.7		
25		68.6	28.9			97.5	130.5		
30			35.5			35.5	128.9		
35			4.7			4.7	20.1		
40	0.2		8.8			8.9	28.7		
45			3.4			3.4	11.1		
50	0.1	3.4	2.8			6.3	6.7		
55									
60									
65									
70									
75									
80									
85									
90									
95									
100									
105									
110									
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120									
125									
130									
135									
140									
145									
150									
175									
200									
225									
250									
275									
Total	0.3	130.6	84.0	72.1	1.4	288.5			
Dead P		11.5	6.3	594.9			612.7		
Dead U									
Live U									

Average DBH(cm) at 5 Levels

12.5 +	43.1	24.0	31.1	14.9	20.4	24.5	26.1
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32.5 +	43.1	49.3	59.9			41.5	41.1

FLAGS: Percent Reduction Applied, Normal Cruise, All Trees Compiled, Double Sampling Factor Applied, Damage, , Wet Belt Fir

Final Cruise

Lat: 51 47 27 | Long: 119 58 57 | F.L.: A88223 | CP: 4T | Block ID: T121

Block Information

Gross Area (ha): **38.6** Cruise Area (ha): **32**

Forest Region:

Forest District: **Thompson Rivers Natural Resource District**

Operating Area: **Third Canyon** Timbermark:**DX204T**

Harvest Method: **Clearcut - Reserves** Tenure: **Forest Licence**

Billing Method: **Cruise Based** Dist. Mngr:

TSA: Mapsheet: **082M071**

FIZ: **G** PSYU: **183** Inv. Reg. No: **57** Comp't. No: **22**

Legend

Cruise Information
- Full Measure Plot
- Count Plot
- Drop Plot
- POC
- % Slope Arrow
- Tight Chain Traverse

VRI Data
- SX70BL30 6-75 — Species and Percent / Projected Age / Projected Age Class

Management Area
- Block Of Interest
- Block Boundary
- Reserves
- Non-Productive
- NCBR
- Landscape Level Retention
- Cable Harvest Area
- Parks, Protected Areas
- Eco/Rec Reserve
- PSYU: 116 PSYU
- REG: 28 COMP: Region & Compartment
- ROW/Road Permit
- Woodlot
- Private Land
- Previously Harvested
- Satisfactorily Restocked
- Free Growing
- Opening

Roads/Trails
- Paved
- Gravel Main
- Operational
- Spur
- Deactivation
- Temp Constructed
- Temp Proposed
- Proposed
- Recreation Trail
- Cultural Trail
- Operational Trail
- Other

Structures
- Existing Bridge
- Proposed Bridge
- Existing Pipe Arch
- Existing Culvert
- Landing
- Removed Structure
- Proposed Culvert
- Skid/Backspar Xing
- Designated Crossing
- Non-Functioning Sructure
- Pipeline Crossing
- Pipeline X-ing Multiple
- Railway Crossing
- Access Control
- KM Marker
- Cattle Guard

Hydrology
- Wetland
- Lake/River
- Fish Bearing
- Definite
- Indefinite

Contours - 10m
- Index Contour
- Intermediate Contour
- 960 Spot Height

Other Features
- Fence
- Rail Line
- Seismic/Cut line
- Pipeline
- Transmission/Power Line
- Wellsite
- Boundary Station
- Cultural Heritage Feature
- Culturally Modified Tree
- Cultural Heritage Area

Cruise Area Summary (ha)

Timber Type	Label	Clearcut	Cable	Total
Type 1		32	0	32

Cruise Area	**32**
NP (Natural)	0
NCBr	0
Logged	0
Right Of Way/Road Permit/Landings	1.2
NP (Oil and Gas)	0
Reserve	5.4
Non Merchantable	**6.6**
Total Area	**38.6**

Scale = 1:10,000

100 50 0 100 200 300 400 Meters

Map Date: **9/17/2016**
Created By: **Groom, Andy**

Tentative Cruise Dates:
From: **17-Sep-2016** To: **17-Mar-2017**

Cruise and Compiling Agency: Canadian Forest Products Ltd.

Licensee Representative:

Date: **9/17/2016**

GIS Generated Systematic Cruise Grid

Grid Spacing (m): **100** Grid Projection: **Albers**
Measure Plots: **17** Count Plots: **17** Total Plots: **34**
Plot Centre/RT: **Blue/Yellow** Boundary: **Orange** SE Waived: **Y**
Dia. Limits: **17.5cm (PIi = 12.5)** Plot Type: **Prism**
Height Instrument: **Vertex** Walkthrough Method: **Y**
Height Estimation Method: **Vertex** **GPS Plot Location**

Declination 16.8°E

Trophy Schedule B Cutting Permit Information

General for Cutting Permit:
All mature deciduous, are reserved. They may be removed from roadside processing for safety issues.

CWD Information
Leave a minimum of 20m3 per hectare up to a maximum of 50m3 per hectare. This includes existing CWD, new CWD and leave trees. The pieces would vary from highly decomposed pieces to sawlog. The sawlog portion is from 1 m3 per ha to a maximum of 5 m3 per ha. Target at least 5-6 large pieces (>20cm diameter and 10m in length) per hectare. The intent is to have the CWD scattered throughout the block with the exception of small debris piles left for small mammals. These small debris piles can be left up to a maximum of 1 per hectare (average).

Block: T121
Intent: General Biodiversity

Retention Requirements:
TU A – Retain all (95%) Deciduous, all Douglas-fir >37.5 DBH, and all incidental mature Cedar and Hemlock.

Retention stems may be removed from roadside processing areas for safety issues.
No mature deciduous trees will be left within 1.5 tree lengths of roads.