

FOREST MANAGEMENT LICENSE # 3

2022-2024

OPERATING PLAN

*Volume II: Integrated Operations by
Operating Area*

Booklet 1 of 2

ALP to MGL



LP CANADA LTD.

SWAN VALLEY FOREST RESOURCES DIVISION

**2022-2024 OP: Operating Area Integrated Operations
Table of Contents**

**Volume II
1 of 2**

Content/Operating Area	Abbreviation	FMU
Introduction		
Alpine	ALP	11
Arm Lake	ARL	13
Boggy Creek	BGC	10
Bowsman	BSN	11
Clearwater Creek	CWC	13
Cowan East	CWE	11
Cowan West	CWW	13
Cryderman's Pit	CRP	13
Drifting River	DFR	13
East Favel	EAF	13
Ethelbert	ETH	10
Ethelbert Trail	EBT	13
Garland	GRL	10
Island Lake	ISL	13
Jackfish Lake	JFL	13
Line Lake	LNK	13
Madge Lake	MGL	13

**Volume II
2 of 2**

Pretty Valley	PRV	11
Renwer	RWR	11
Roblin	RBN	10
Route H	RTH	13
Route W	RTW	13
Sarah Lake	SRL	13
Sclater	SLT	11
Silver Creek	SLC	13
Sinnott Lake	SNL	13
Stoski Road	STR	13
Swan Lake	SWL	11
Swan Valley	SWV	11
Tee Lakes	TEL	13
Valley River	VLR	13
Vimy Ridge	VMR	13
Watjask Lake	WJL	13
Weiden	WDN	10
West Favel	WEF	13
Wine Lake	WNL	13


INTEGRATED OPERATIONS - INTRODUCTION

Volume II (Integrated Operations) of the Operating Plan (OP) includes all proposed activities in FML 3. Proposed roads, crossing descriptions, stream assessments, crossing photographs, and cut block prescriptions are integrated together by operating area. This allows for easier review of all proposed activities by operating area.

This introduction also includes the general Operating Plan mitigation comments.

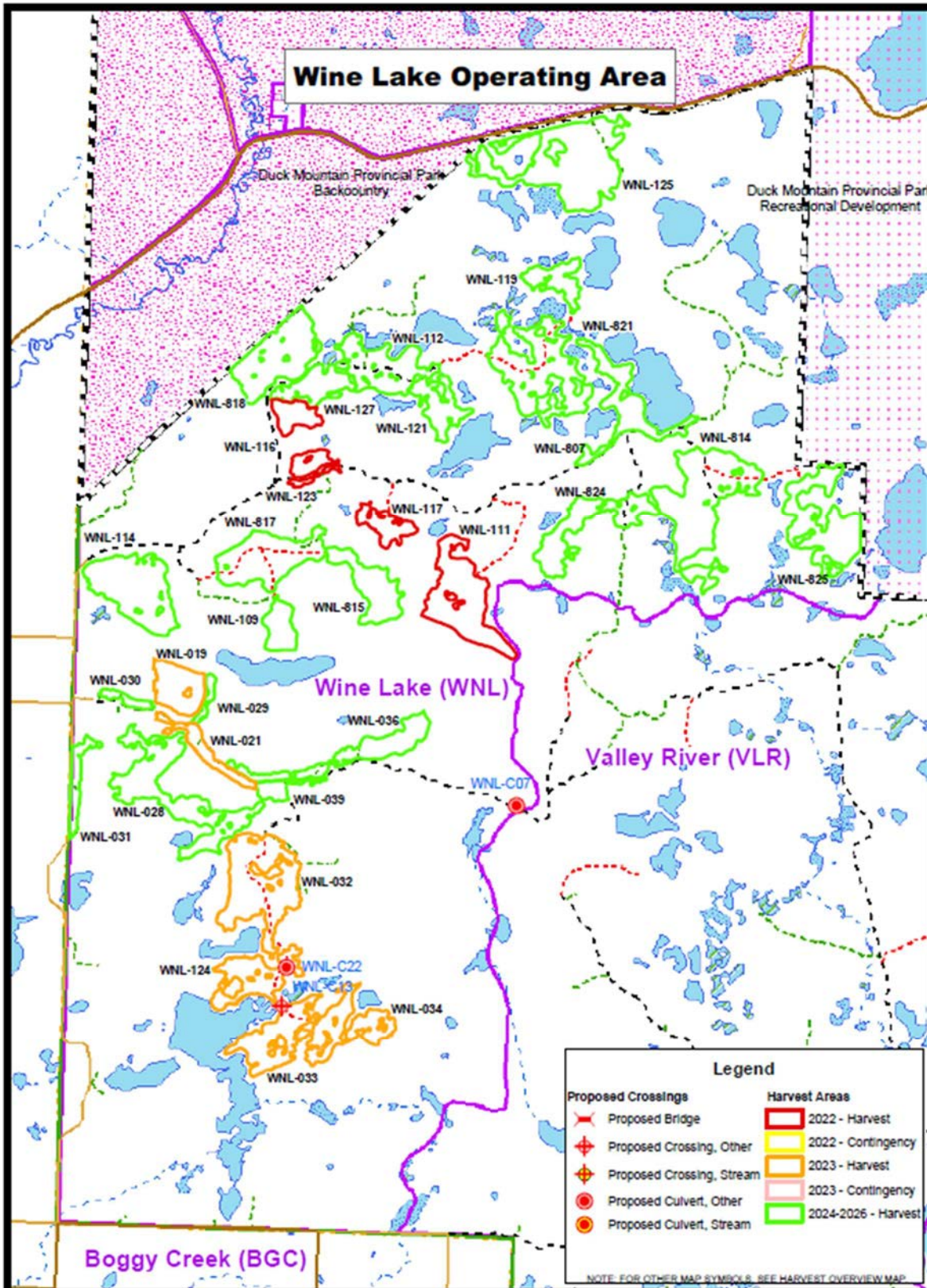
Volume II - Integrated Operations by Operating Area – includes the following items:

1. Operating Area Title Page example.

	Phone: -- Fax: --	Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency
FMU 13		Tee Lakes
TEL-811	8.06 Hectares	2022 Contingency
HW Allocation	435 m3	Quota Holder/LP
SW Allocation	279 m3	SPL
TEL-822	85.66 Hectares	2022 Harvest
HW Allocation	17,449 m3	Quota Holder/LP
SW Allocation	5,270 m3	SPL
TEL-823	63.42 Hectares	2022 Harvest
HW Allocation	12,856 m3	Quota Holder/LP
SW Allocation	3,114 m3	SPL
TEL-824	36.42 Hectares	2023 Contingency
HW Allocation	4,334 m3	Riehl/SPL/LP
SW Allocation	3,278 m3	SPL
TEL-825	62.56 Hectares	2023 Contingency
HW Allocation	7,445 m3	Riehl/SPL/LP
SW Allocation	5,630 m3	SPL
TEL-878	76.49 Hectares	2022 Contingency
HW Allocation	7,337 m3	Quota Holder/LP
SW Allocation	11,850 m3	SPL
TEL-882	19.18 Hectares	2023 Harvest
HW Allocation	2,004 m3	Quota Holder/LP
SW Allocation	2,034 m3	SPL/Riehl

2. Operating Area Overview Map example.

In this two-year Operating Plan (OP), there are both 2022 harvest blocks and 2023 harvest blocks. 2022 and 2023 'Contingency' blocks are also included.



3. General Operating Area and Block Mitigation Comments (source: IRMT).

Mitigation Comments

General

Operating Area/ Mitigation Year	Concern	Manitoba	Action/Response
Line Lake	Harvest Sequence	Recommend no hauling happen on weekends and the blocks preferably would not be active before Oct-01 to avoid the majority of the recreation/cottage activities.	
	Access Control	Gate must be locked if the road is inactive for more than 48 hours. In the past it has not been.	Agreed.
	Access Control	Where ATV access is to be left for renewal purposes, only one central access may be retained. No in block spur roads are to be left. A limited number of strategically distributed helicopter landing areas may be left on roads and landings. Access to be closed following completion of planting activities by no later than July 31, unless separate approval is applied for.	Agreed. Will determine on a site by site basis.

Site Specific

Block	Concern	Manitoba	Action/Response
LNK-811	Terrestrial Buffers - IRMT Discretion	Remove portion of block to create a 100 m buffer between this block and TEL-820.	Agreed.
	Riparian Mgmt. - Wildlife	Increase the buffer on water feature to the south from 30 m to 30 m <u>tree</u> buffer for moose calving.	Agreed.
	Access Control	Minimal access to be left for planting. Not truck access. See Operating Area General Comment about planting access.	Agreed.
LNK-814	Age of Mitigation	Last mitigated 2014. Will revisit mitigation at permit time.	


4. Road Development and Road Deactivation information example.

Roads

Am Lake

ARL-1A to 1D (existing)						Additional Road Development Comments				
Road Development:						These roads are on designated route M. They are part of the access to blocks ARL-032, 033, 034, 035, 037, 046, 055, 063, 064 and 500.				
Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)						
3.2	15	6	Dry/Frozen	50						
Road Deactivation:						Additional Road Closure Comments				
Road Closure Responsibility				Crossing Removal	Debris and slash	Earth Berm	Gate	Site Prep	None	
Quota Hbl/br/LP		Post-Harvest Post-Renewal		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	These are existing roads and will remain open.
ARL-1E to 1G (existing)						Additional Road Development Comments				
Road Development:						These roads access and are part of the access to blocks ARL-032, 033, 034, 035, 037, 046, 055, 063, 064 and 500.				
Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)						
7.1	15	6	Frozen	50						
Road Deactivation:						Additional Road Closure Comments				
Road Closure Responsibility				Crossing Removal	Debris and slash	Earth Berm	Gate	Site Prep	None	
LP		Post-Harvest Post-Renewal		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This is an existing trail and will remain open. The crossings will melt restricting access.
ARL-1E-1A to 1C (existing)						Additional Road Development Comments				
Road Development:						These roads access blocks ARL-064 and are part of the access to blocks ARL-063 and ARL-500. These roads were used by LP in 1998, 2000 and 2020. They are also used by trappers.				
Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)						
2.8	15	6	Frozen	50						
Road Deactivation:						Additional Road Closure Comments				
Road Closure Responsibility				Crossing Removal	Debris and slash	Earth Berm	Gate	Site Prep	None	
LP		Post-Harvest Post-Renewal		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This is an existing road which will remain open.

5. Water Crossing Prescription example.



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

<p>Crossing Name: ISL-C15</p> <p>Operating Area: Island Lake</p> <p>UTM Northing: 5708413</p> <p>Stream Type: Other Watercourse</p> <p>Watercourse Name: N/A</p> <p>Channel Width (m): N/A</p> <p>Water Depth (m): N/A</p> <p>Road Name: ISL-1H-1A-1A</p>	<p>Ownership: SPL</p> <p>Contingency Crossing: <input type="checkbox"/></p> <p>UTM Easting: 368967</p> <p>Land Description: 6E27-29-25W</p> <p>Crossing Inspection Date: 17-June-2020</p> <p>Stream Assessment Required:</p> <p>Stream Assessment Complete:</p>
---	--

Site Description:

Alder swale in mixed wood stand. Feature is approximately 10m wide with no defined channel or banks. Substrate is organic.

General Considerations:

SPL will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice King	<input type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Crossing Lifespan:

Temporary Crossing:

01 July,2022 to 01 July,2023

Permanent Crossing:

Proposed Install Date:

Crossing Duration: Years

Remove after Renewal Activities:

Installation & Removal Notes:

A minimum 18 inch culvert is required. Geo textile and/or corduroy will also be used.




After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

Report: 70030.0 - Printed on 2/15/2022 at 8:44:38AM by baumavt

Page 31 of 48

6. Watercourse photographs example.

PROPOSED CROSSING ISL-C15

	Across
	Upstream
	Downstream

7. Pre-Harvest Cutblock Prescription example.



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PRE-HARVEST CUT BLOCK PRESCRIPTION
FML 3 2022 - Harvest

Cut Block Name: ARL-032	Twp & Rge: t28r27w	Cut Block Size: 99.6 ha
OPERATING AREA: Arm Lake	Ownership: Open Crown	Mapsheet: 350569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	73	23.7	38	59%	142	14,087
BA		22.5	34	2%	5	486
WB		17.3	27	10%	23	2,311
Total HW				71%	170	16,884
WS	102	18.6	30	22%	52	5,206
BS	78	15.5	15	2%	4	376
JP				0%	0	0
BF		14.3	21	6%	14	1,424
Total SW				29%	70	7,006
Block Total:					240	23,890

Understory Stems/ha and Distribution					
WS		BS		BF	
287	Uniform	9	Clumped	487	Clumped

Eco Land Classification			Soils Summary				
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
Eco Site	08	05	13	11	S3	2	Clay Loam
	23						

Cover Type: N	IBWC Cnt: 0
---------------	-------------

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 16,040
 SOFTWOOD VOLUME (m3): 6,656

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE	WIDTH (m)	DETAILS
1 Lake	30-75	Mcbride Lake located on the W/NW side. Variable 30 to 75m buffer. Harvest as shown on map.
2 Lake	30	West Shanty Lake located on the E side. Harvest as shown on map. Water levels rising flooding buffers.

NOTE: IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 796 to 1,195 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is in an area affected by Spruce Budworm. Harvest is being accelerated to capture volume before White Spruce trees die.
 Maintain 300m LOS for elk management.
 Maintain a max of 19 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Keep equipment and debris out of harvested area located on the S side.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	WS	1600	33480

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2023

RENEWAL COMMENTS/ISSUES:

Areas of WS understory >500 stems/ha and <5m in height are located in the SW and NE portions of the block (plots 1,7,17,35,37 & 45). Clumps of understory will be protected in patches.
 East side of block being planted.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/29/21
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Minimum 30m buffer on all lakes.
 No requirement for BF understory protection in budworm area.
 Remove comment.
 Minimal access to be left for planting. See operating area general comments.
 300 m LOS for elk.

Projection block. Will assess at time of mitigation. Dependant on SBW status.
 Will remove comment.
 Agreed.
 Agreed.

<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>



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Integrated Operations by Operating Area

Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 11

Alpine

ALP-005	35.30 Hectares		2023 Harvest
HW Allocation	2,520 m3	LP	
SW Allocation	236 m3	SPL	
ALP-006	29.13 Hectares		2023 Harvest
HW Allocation	3,341 m3	LP	
SW Allocation	1,017 m3	SPL	
ALP-025	70.77 Hectares		2022 Harvest
HW Allocation	15,987 m3	LP/Quota Holder	
SW Allocation	1,734 m3	SPL	
ALP-028	16.24 Hectares		2022 Harvest
HW Allocation	2,872 m3	LP/Quota Holder	
SW Allocation	39 m3	SPL	
ALP-802	41.52 Hectares		2022 Harvest
HW Allocation	55 m3	Quota Holder/LP	
SW Allocation	36 m3	Quota Holder	
ALP-L02	24.07 Hectares		2023 Contingency
HW Allocation	3,611 m3	LP	
SW Allocation	0 m3	SPL	

Alpine Operating Area

Pretty Valley (PRV)

Alpine (ALP)

Sarah Lake (SRL)

Four Corners (FRC)

Madge Lake (MGL)

ALP-028
ALP-026
ALP-C01
ALP-C09
ALP-C10
ALP-025

ALP-802
ALP-800
ALP-014
ALP-017

ALP-L02
ALP-006
ALP-009
ALP-005

ALP-L01

Proposed Crossings		Harvest Areas	
	Proposed Bridge		2022 - Harvest
	Proposed Crossing, Other		2022 - Contingency
	Proposed Crossing, Stream		2023 - Harvest
	Proposed Culvert, Other		2023 - Contingency
	Proposed Culvert, Stream		2024-2026 - Harvest

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.

Roads

Alpine

ALP-12A (existing)

Additional Road Development Comments

This road is part of the access to block ALP-025. This road was used in 2012.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.2	20	8	Dry/Frozen	50

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
Riehl/LP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This is an existing road which will remain open.

ALP-12B

Additional Road Development Comments

This road accesses block ALP-025. This road follows an existing trail which will be upgraded to allow hauling.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.6	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
Riehl/LP	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The road will be closed with slash and debris at selected locations in block ALP-026. Selected locations include landings and other areas where debris accumulates. Crossings ALP-C01, C09 and C10 will also be removed restricting access.

ALP-5A (existing)

Additional Road Development Comments

This road accesses block ALP-L02 and is part of the access blocks ALP-005 and 006.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.3	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This is an existing trail which will remain open.

ALP-5A-2A

Additional Road Development Comments

This road accesses the remainder of block ALP-005 and is part of the access to future FRC blocks.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
------------------	---------------	------------------------	---------------	------------------------

1.0	20	8	Dry/Frozen	5								
Road Deactivation:												
Road Closure Responsibility					Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP		Post-Harvest Post-Renewal	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will remain open for future harvest in the FRC operating area. A berm will be placed at the start of the road.

ALP-5B Additional Road Development Comments
 This road accesses block ALP-006.

0.8	20	8	Dry/Frozen	1								
-----	----	---	------------	---	--	--	--	--	--	--	--	--

Road Deactivation:												
Road Closure Responsibility					Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP		Post-Harvest Post-Renewal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with debris in block ALP-005 and in the old harvest block where debris is available.

ALP-6A Additional Road Development Comments
 This road accesses block ALP-028.

0.3	20	8	Dry/Frozen	25								
-----	----	---	------------	----	--	--	--	--	--	--	--	--

Road Deactivation:												
Road Closure Responsibility					Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
Riehl/LP		Post-Harvest Post-Renewal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The front half of this road will remain open to access Riehl's stockpile site. The remainder of the road will be closed with slash and debris.

ALP-7A (existing) Additional Road Development Comments
 This road accesses block ALP-802. It goes across private land and is gated at the municipal road.

2.0	15	6	Frozen	25								
-----	----	---	--------	----	--	--	--	--	--	--	--	--

Road Deactivation:												
Road Closure Responsibility					Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
Zander, Stuart		Post-Harvest Post-Renewal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This road is across private land and will remain open.



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: ALP-C01		Ownership: Rieh/LP	
Operating Area:	Alpine	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5746777	UTM Easting:	335493
Stream Type:	Other Watercourse	Land Description:	NW21-33-28W
Watercourse Name:	N/A	Crossing Inspection Date:	01-June-2011
Channel Width (m):	0.50	Stream Assessment Required:	
Water Depth (m):	0.15	Stream Assessment Complete:	
Road Name:	ALP-12A		

Site Description:

This proposed crossing is located on an alder swale situated within a hardwood stand. The alder swale intersects with an old road. The channel has discontinuous, undefinable banks and generally acts as a small catchment during high flow periods. No fish were observed at the time of inspection.

General Considerations:

Rieh/LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>




Temporary Crossing:	<input checked="" type="checkbox"/>
01 September,2022	to 01 September,2023
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

If a snow and ice crossing is used after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions. A minimum 12" culvert required.

After harvest is completed, the round culvert will be removed and the road approaches will be recontoured to near natural slope conditions. The area will be seeded with grass and if required straw mulch or erosion control matting will be used to further stabilize the site.

PROPOSED CROSSING ALP-C01

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: ALP-C09		Ownership: Rieh/LP	
Operating Area:	Alpine	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5746074	UTM Easting:	335680
Stream Type:	Other Watercourse	Land Description:	SW21-33-28W
Watercourse Name:	N/A	Crossing Inspection Date:	02-May-2016
Channel Width (m):	N/A	Stream Assessment Required:	
Water Depth (m):	N/A	Stream Assessment Complete:	
Road Name:	ALP-12B		

Site Description:

Crossing is a flooded alder swale/thicket swamp. The small beaver dam downstream of the crossing will be removed lowering the water. This crossing is on an old road in a hardwood forest stand.

General Considerations:

Rieh/LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 September,2022"/>	to <input type="text" value="01 September,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

If a snow and ice crossing is used after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions. A minimum 12 inch culvert is required.

After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING ALP-C09



Across



Upstream



Downstream



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: ALP-C10		Ownership: Rieh/LP	
Operating Area:	Alpine	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5745428	UTM Easting:	335600
Stream Type:	Permanent	Land Description:	NW16-33-28W
Watercourse Name:	Ruby Creek	Crossing Inspection Date:	05-February-2016
Channel Width (m):	2.5	Stream Assessment Required:	
Water Depth (m):	0.8	Stream Assessment Complete:	
Road Name:	ALP-12B		

Site Description:

This crossing is on a permanent stream. The substrate is gravel, sand and clay at the crossing. There is approximately 50 meters of sedge complex along the stream. The banks are approximately 1m at the crossing.

General Considerations:

Rieh/LP will follow DFO Operational Statement for temporary clear span bridges.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 September,2022"/>	to <input type="text" value="01 July,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>




Installation & Removal Notes:

A minimum 30 foot portable bridge is required.

After harvesting activities are completed the portable bridge will be removed. If required the road approaches will be recontoured to a near natural condition. The area will be seeded with grass and if required erosion control matting or straw mulch will be used to further stabilize the site.

If a snow and ice crossing is used after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions.

PROPOSED CROSSING ALP-C10

 A photograph showing a view across a river. The foreground is dominated by a dense thicket of tall, dry, yellowish-brown grasses. The river flows through the middle ground, bordered by more grasses and some small shrubs. In the background, a dense forest of evergreen trees is visible under a clear sky.	<p>Across</p>
 A photograph showing a view upstream. The river flows through a landscape of dry, yellowish-brown grasses. The banks are lined with more grasses and some small shrubs. In the background, a dense forest of evergreen trees is visible under a clear blue sky.	<p>Upstream</p>
 A photograph showing a view downstream. The foreground is dominated by a dense thicket of tall, dry, yellowish-brown grasses. The river flows through the middle ground, bordered by more grasses and some small shrubs. In the background, a dense forest of evergreen trees is visible under a clear sky.	<p>Downstream</p>



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: ALP-005	Twp & Rge: t32r29w	Cut Block Size: 35.3 ha
OPERATING AREA: Alpine	Ownership: Open Crown	Mapsheet: 320573
LICENCE: FML 3	Management Unit: 11	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	68	18.7	25	71%	97	3,422
BA	90	14.2	22	10%	14	496
WB		15.7	20	10%	13	468
Total HW				91%	124	4,386
WS		22.4	49	9%	12	417
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				9%	12	417
Block Total:					136	4,803

Understory Stems/ha and Distribution								
WS		BS		BF				
Eco Land Classification				Soils Summary				
V Type		1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
		05	01		05	S5	2	Clay Loam
Eco Site		32			05	S5	2	Loam
Cover Type: H		IBWC Cnt: 1						

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 2,520
 SOFTWOOD VOLUME (m3): 236

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 282 to 424 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Approximately 40% of this block was harvested in 2018. The volumes shown indicate this.
 Block is located on SW14-32-29 which is coded A1.
 Maintain structure along IBWC located in the center of the block from plots 15 to 13.
 Keep existing trail located on the S side free of debris.
 Retain some juvenile WS in patches for seed trees to maintain WS % in renewal.
 Keep equipment and debris out of harvested area located on the E/NE side of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2029

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **9/21/17**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Discuss access management. Where do trails go? Why are they needed?</p> <p>Retain incidental WS in windfirm patches.</p> <p>Discuss distribution on WS.</p>	<p>Trail goes to Roy Taylor's fields. Appears to be used for an open area trapper. This trail could be an alternate road used to haul all the ALP wood out.</p> <p>Harvest mature or over mature WS and leave smaller trees as seed source.</p> <p>OK. WS along E side.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: ALP-006	Twp & Rge: t32r29w	Cut Block Size: 29.1 ha
OPERATING AREA : Alpine	Ownership: Open Crown	Mapsheets: 320573
LICENCE: FML 3	Management Unit: 11	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	97	21.4	29	71%	112	3,273
BA		16.0	25	3%	4	120
WB		18.0	31	3%	4	124
Total HW				77%	121	3,517
WS	79	18.0	26	23%	37	1,070
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				23%	37	1,070
Block Total:					157	4,587

Understory Stems/ha and Distribution								
WS		BS		BF				
63	Clumped			38	Clumped			
Eco Land Classification				Soils Summary				
V Type		1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
Eco Site		13	05		06	S5	2	Clay Loam
		32			05	S5	2	Clay Loam
Cover Type: H		IBWC Cnt: 0						

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 3,341
 SOFTWOOD VOLUME (m3): 1,017

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Flood	MFZ	Located on the NE side. Flood is expanding. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 233 to 350 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Block is located on NE14-32-29 which is coded A1.
 Maintain structure along 2 IBWC's located on the NE side near plot 11. These are overflow features from beaver flood in the center of the block which is expanding.
 Retain some juvenile WS in patches for seed trees to maintain WS % in renewal.
 Keep equipment and debris out of harvested area located on the S side of the block.
 Ensure north boundary does not encroach on private land to the north.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

Site will be monitored to determine if any assisted regeneration is required.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 9/21/17
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Discuss distribution of WS.</p> <p>Prefer seed trees and road closure rather than planting due to elk concerns.</p>	<p>WS are mostly in the center portion, much of which is now drawn out of the block due to flooding.</p> <p>Agreed.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
--	---	--



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: ALP-025	Twp & Rge: t33r28w	Cut Block Size: 70.8 ha
OPERATING AREA: Alpine	Ownership: Open Crown	Mapsheet: 330574
LICENCE: FML 3	Management Unit: 11	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	73	21.5	27	74%	194	13,743
BA		18.8	29	13%	35	2,494
WB		17.5	21	3%	8	586
Total HW				90%	238	16,823
WS	93	20.6	38	10%	26	1,819
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				10%	26	1,819
Block Total:					263	18,642

Understory Stems/ha and Distribution					
WS		BS		BF	
225	Uniform				

Eco Land Classification	1st			2nd			3rd		
	V Type	08	05						
	Eco Site	32							

Soils Summary			
LFH(cm)	S-Type	Moisture	Surface Texture
09	S5	2	Clay Loam

Cover Type: H	IBWC Cnt: 3
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP/Quota Holder
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 15,987
 SOFTWOOD VOLUME (m3): 1,734

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3
Wetland	MFZ	Located on S side. Structure will be maintained. Flag as shown on map.
Wetland	MFZ	Located on the W side. Structure will be maintained. Flag as shown on map.
Stream	15-100	Ruby Creek located on the N and E sides. Variable 15 to 100m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 566 to 849 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is on the N1/2 of 17 which is coded A1 and NW16-33-28 which is coded A/C/B.
 Maintain 300m LOS for elk.
 Maintain structure along IBWC's located in the central portion of the block near plots 23, 5 and 21. The IBWC near plots 23 and 5 are probably the same feature and run through the block.
 Riehl's Lumber and Logging will need to request a transfer of quota from FMU 13 to FMU 11 for hardwood going to their mill.
 Maintain some juvenile WS for seed trees (see mitigation comment).



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2027

RENEWAL COMMENTS/ISSUES:

Areas of WS understory >500 stems/ha and <6m in height are located in the N portion of the block (plots 25 and 31). Clumps of understory will be protected in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/18/19
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Can block be accessed from S to avoid creek crossing and possible circle route.	Prefer the currently-planned access. Once the bridge is pulled, it will become an access deterrent and not likely create a circle route. Prefer to utilize the existing trails to the north and not have to cross private land. Agreed to use planned access (ALP-12A/B)	<input checked="" type="checkbox"/>
50m buffer on private land in SW corner.	Field is fenced and gated @ south end. Block is almost 1 km away from the road. Somewhat of a buffer already bordering private land. Roads a minimum of 100 m away from block boundary along this location. Agreed no additional buffer.	<input checked="" type="checkbox"/>
Retain some mature WS in patches for seed trees to maintain WS % in renewal.	In the past we've left big sailors that have blown over, instead will leave 20-40 year old WS in wind firm patches to provide seed source.	<input checked="" type="checkbox"/>
MFZ wetland/drain S side (mostly treed buffer already).	Agreed. Added to prescription.	<input checked="" type="checkbox"/>
300m LOS for elk. Moose and elk presence.	Agreed.	<input checked="" type="checkbox"/>

Alpine - ALP-025



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: ALP-028	Twp & Rge: t33r28w	Cut Block Size: 16.2 ha
OPERATING AREA: Alpine	Ownership: Open Crown	Mapsheet: 330574
LICENCE: FML 3	Management Unit: 11	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	66	19.7	26	71%	133	2,158
BA		18.4	27	26%	49	797
WB		19.5	32	2%	4	63
Total HW				99%	186	3,018
WS	78	17.0	26	1%	3	41
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				1%	3	41
Block Total:					188	3,059

Understory Stems/ha and Distribution								
WS		BS		BF				
Eco Land Classification				Soils Summary				
		1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type		05	01		04	S5	2	Clay Loam
Eco Site								
Cover Type: H		IBWC Cnt: 1						

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP/Quota Holder
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 2,872
 SOFTWOOD VOLUME (m3): 39

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

1	Wetland	MFZ	Located on the W and S side. Structure will be maintained. Harvest as shown on map.
2	Wetland	MFZ	Located on the E side. Structure will be maintained. Harvest as shown on map.

NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 130 to 195 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is on NE21-33-28 which is coded A2.
 Wetlands/flood on W side is expanding and merchantable trees have been flooded.
 Large area of blowdown has been removed from block.
 Maintain a max of 3 WDP's approximately 30-70 m from block edge and where possible adjacent to swd stands outside of block.
 Maintain structure on IBWC which runs through the block from between plots 4 and 5 to plot 8.
 Trail runs through block and there are several marten boxes along trail and in the block. Trail will be left open after harvest.
 Keep existing trail free of debris.
 Riehl's Lumber and Logging will need to request a transfer of quota from FMU 13 to FMU 11 for hardwood going to their mill.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2027

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **10/18/19**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Open area trapper concerns. Need WLDP's. Leave existing trail open for trapper.</p>	<p>Agreed. Added to prescription. Agreed. Added to prescription.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: ALP-802	Twp & Rge: t33r28w	Cut Block Size: 41.5 ha
OPERATING AREA: Alpine	Ownership: Open Crown	Mapsheets: 330574
LICENCE: FML 3	Management Unit: 11	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	88	21.3	35	41%	49	2,038
BA	93	15.0	39	7%	9	368
WB		17.0	24	6%	7	291
Total HW				54%	65	2,697
WS	114	20.3	32	46%	55	2,276
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				46%	55	2,276
Block Total:					120	4,973

Understory Stems/ha and Distribution					
WS		BS		BF	
200	Uniform				

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type			
Eco Site			

LFH(cm)	S-Type	Moisture	Surface Texture
13	S10	3	Silty Clay
12	S6	4	Sandy Clay

Cover Type: N	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder

HARDWOOD VOLUME (m3): 55
 SOFTWOOD VOLUME (m3): 36

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 332 to 498 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is on the SW and NW4-33-28W. The NW4 is coded A2 and the SW is coded A1.
 Approximately 2 ha of this block has been harvested.
 300 meter LOS for Elk.
 Additional hardwood may be harvested in this block above the volume indicated and claimed by LP. This will allow progressive harvest in the block.
 This is a multi year harvest block. Mr. Zander will continue to select cut WS from this area in a progressive manner. Approximately 2 ha of this block has been harvested. Approximately 1 ha is cut per year to meet his quota.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **N**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2034

RENEWAL COMMENTS/ISSUES:

Quota holder has been encouraged to periodically leave large WS and maintain structure around seed trees. Harvest area maybe area planted periodically depending on success of maintaining understory and seed trees.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 11/27/00
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>IRMT requested 300 meter LOS</p>	<p>Agreed No concerns.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: ALP-L02	Twp & Rge: t32r29w	Cut Block Size: 24.1 ha
OPERATING AREA: Alpine	Ownership: Open Crown	Mapsheets: 320573
LICENCE: FML 3	Management Unit: 11	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st			2nd		
3rd			LFH(cm)		
V Type			S-Type		
Eco Site			Moisture		
			Surface Texture		
Cover Type:			IBWC Cnt: 0		

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 3,611
 SOFTWOOD VOLUME (m3): 0

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on the E and central portion of block. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 193 to 289 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 This block is on NW14-32-29 which is coded 8a. This quarter is classed as open crown on the landowner map. Was leased to Christopher Nelson.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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Integrated Operations by Operating Area

Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 13

Arm Lake

ARL-032	99.55 Hectares		2022 Harvest
HW Allocation	16,040 m3	LP	
SW Allocation	6,656 m3	SPL	
ARL-033	85.81 Hectares		2022 Harvest
HW Allocation	8,225 m3	LP	
SW Allocation	5,272 m3	SPL	
ARL-034	33.50 Hectares		2023 Harvest
HW Allocation	6,330 m3	LP	
SW Allocation	2,162 m3	SPL	
ARL-035	35.56 Hectares		2022 Harvest
HW Allocation	3,358 m3	LP	
SW Allocation	2,493 m3	SPL	
ARL-037	42.82 Hectares		2022 Harvest
HW Allocation	5,917 m3	LP	
SW Allocation	3,275 m3	SPL	
ARL-045	91.59 Hectares		2023 Contingency
HW Allocation	16,486 m3	LP	
SW Allocation	9,159 m3	SPL	
ARL-046	77.62 Hectares		2023 Contingency
HW Allocation	13,731 m3	LP	
SW Allocation	7,673 m3	SPL	
ARL-055	86.76 Hectares		2023 Harvest
HW Allocation	13,954 m3	LP	
SW Allocation	4,236 m3	SPL	
ARL-063	57.44 Hectares		2022 Harvest
HW Allocation	11,473 m3	LP	
SW Allocation	3,465 m3	SPL	
ARL-064	20.06 Hectares		2022 Harvest
HW Allocation	5,038 m3	LP	
SW Allocation	1,173 m3	SPL	
ARL-500	384.69 Hectares		2023 Contingency
HW Allocation	44,239 m3	LP	
SW Allocation	28,852 m3	SPL	

Arm Lake Operating Area

Wine Lake (WNL)

Valley River (VLR)

Upper Dam (UPD)

Boggy Creek (BGC)

ARL-031
 ARL-032
 ARL-033
 ARL-034
 ARL-035
 ARL-037
 ARL-042
 ARL-044
 ARL-045
 ARL-046
 ARL-053
 ARL-055
 ARL-059
 ARL-063
 ARL-064
 ARL-500
 ARL-C01
 ARL-C02
 ARL-C15
 ARL-C16
 ARL-C17

Arm Lake (ARL)

Roblin (RBN)

Sinnott Lake (SNL)

Proposed Crossings		Harvest Areas	
	Proposed Bridge		2022 - Harvest
	Proposed Crossing, Other		2022 - Contingency
	Proposed Crossing, Stream		2023 - Harvest
	Proposed Culvert, Other		2023 - Contingency
	Proposed Culvert, Stream		2024-2026 - Harvest

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.

Internal Mitigation Comments

General

Operating Area	Concern	Manitoba	Action/Response
Arm Lake	Forest Health	BF understory should not be protected in this operating area until the SBW outbreak is over.	Agreed.
		Due to time limitations, this will have to be discussed on a case by case basis, at the time of harvest.	Can operators reach into the buffers to harvest diseased softwood?
	Access Control	Where ATV access is to be left for renewal purposes, only one central access may be retained. No in block spur roads are to be left. A limited number of strategically distributed helicopter landing areas may be left on roads and landings. Access to be closed following completion of planting activities by no later than July 31, unless separate approval is applied for.	Agreed. Will determine on a site by site basis.

Site Specific

Block	Concern	Manitoba	Action/Response
ARL-032	Forest Health	No requirement for understory protection for BF in SBW area. Comment should be removed from Renewal Comments/Issues section.	Will remove comment.
	Access Control	Minimal access to be left for planting. See Operating Area General Comment about planting access.	Agreed.
ARL-034	Forest Health	No requirement for understory protection for BF in SBW area. Comment should be removed from Renewal Comments/Issues section.	Will remove comment.
	Access Control	Remove the northern tip of the block to create a separation of 100 m between this block and VLR-226. Will lessen the chance of a circle route.	Agreed.
		Minimal access to be left for planting. See Operating Area General Comment about planting access.	Agreed.
	Wildlife Ungulate	Maintain a 300 m LOS for elk.	Agreed.
ARL-035	Access Control	If not planting the N half, access to this portion to be closed post harvest.	Agreed.
		Minimal access to be left for planting. See Operating Area General Comment about planting access.	Agreed.

	Riparian Mgmt. - Wildlife	Increase the MFZ on the NE side to 30 m minimum.	Agreed.
ARL-037	Terrestrial Buffers - IRMT Discretion	Has adjacency been met to east and north? If not a 30 m visual barrier will be required.	Already at least a 30m buffer on the N side except where road goes into ARL-017. Only about 250m of the E side is adjacent to block ARL-016. Area is in the spruce budworm salvage and will be harvested as shown. Block already permitted for harvest.
	Riparian Mgmt. - Wildlife	Increase the MFZ on the SW side to 30 m minimum.	Agreed.
	Access Control	Can this access be permanently closed after ARL-039 and this block are completed?	Yes after all harvest north of this block is complete the access can be closed.
		Minimal access to be left for planting. See Operating Area General Comment about planting access.	Agreed.
ARL-046	Riparian Mgmt. - Wildlife	Increase the MFZ on the N wetland to 30 m minimum.	Agreed.
	Access Control	Minimal access to be left for planting. See Operating Area General Comment about planting access.	Agreed.
ARL-055	Harvest Sequence	This block should be the last block harvested on this access so the road can be closed well.	Agreed. I believe this road is used by trapper and outfitters. Will want to maintain at least ATV access.
	Riparian Mgmt. - Wildlife	Increase the MFZ on the W, N and E side to 30 m minimum.	Increased the buffer on the N side to 30m and the W side to 30-100. Left the E side as MFZ to 30.
ARL-063	Access Control	Is access to the other road possible from the N end of the block? If possible, remove some of the block to eliminate a circle route.	There is no access to the main road to the north.
	Forest Renewal	Area plant is checked off but there is no other planting info.	Not sure why as this is an H block and silviculture did not review this block.
ARL-064	Riparian Mgmt. - Wildlife	Increase the MFZ on the W wetland to 30 m minimum.	Agreed.
	Forest Renewal	Area plant is checked off but there is no other planting info.	Not sure why as this is an H block and silviculture did not review this block.
ARL-C15	Crossing	Why is this crossing located where it is instead of where the dam is?	ARL-C15 is at the narrowest point. There is no dam that I am aware of. I walked along the whole channel and saw no dam.

Roads

Arm Lake

ARL-1A to 1D (existing)

Additional Road Development Comments

These roads are on designated route M. They are part of the access to blocks ARL-032, 033, 034, 035, 037, 046, 055, 063, 064 and 500.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
3.2	15	6	Dry/Frozen	50

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
Quota Holder/LP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	These are existing roads and will remain open.

ARL-1E to 1G (existing)

Additional Road Development Comments

These roads access and are part of the access to blocks ARL-032, 033, 034, 035, 037, 046, 055, 063, 064 and 500.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
7.1	15	6	Frozen	50

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This is an existing trail and will remain open. The crossings will melt restricting access.

ARL-1E-1A to 1C (existing)

Additional Road Development Comments

These roads access blocks ARL-064 and are part of the access to blocks ARL-063 and ARL-500. These roads were used by LP in 1998, 2000 and 2020. They are also used by trappers.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
2.8	15	6	Frozen	50

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This is an existing road which will remain open.

ARL-1E-1C-1A

Additional Road Development Comments

This road accesses block ARL-063.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.5	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with debris at selected locations in block ARL-064.

ARL-1E-1D

Additional Road Development Comments

This road accesses block ARL-500.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.6	15	6	Frozen	5

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This is an existing trail and will remain open.

ARL-1E-2A (existing)

Additional Road Development Comments

This road is part of the access to block ARL-032 and 033.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.3	15	6	Frozen	10

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The first 50m of this road will be closed with debris. Crossing ARL-C14 will melt restricting access.

ARL-1E-2A-1A

Additional Road Development Comments

This road goes through block ARL-046 and accesses block ARL-034.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.9	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed with slash and debris at selected locations in block ARL-046 wherever debris accumulates. ATV access is required for renewal purposes.

ARL-1E-2B

Additional Road Development Comments

This road accesses block ARL-032.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.4	8	20	Dry/Frozen	10

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed at selected locations in block ARL-033. Crossing ARL-C15 will melt restricting access.

ARL-1E-3A

Additional Road Development Comments

This road accesses block ARL-045.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.8	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	The first 50m of this road will be closed with slash and debris. ATV access is required for renewal purposes.

ARL-1F-2A

Additional Road Development Comments

This road accesses block ARL-035.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.2	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	The first 50m will be closed with debris.

UPD-1F-2A

Additional Road Development Comments

This road accesses block ARL-500 from the Upper Dam road. The road crosses the dam to access the block and most of it is existing. This road is proposed as dry/frozen access and has been included in the operating plan as a potential access so ARL-500 can be harvested in dry/frozen conditions. The access shown on the west side is frozen only and would require the block to be active longer.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.5	20	8	Dry/Frozen	4

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Slash and Debris	Slash	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The last 100m of this road will be closed with slash and debris. If needed it will be closed between each operating season.



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: ARL-C01		Ownership: LP	
Operating Area:	Arm Lake	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5695929	UTM Easting:	353972
Stream Type:	Other Watercourse	Land Description:	SE-18-28-26-W
Watercourse Name:	N/A	Crossing Inspection Date:	12-June-2000
Channel Width (m):	0.30	Stream Assessment Required:	
Water Depth (m):	0.05	Stream Assessment Complete:	
Road Name:	ARL-1E-1C		

Site Description:

This particular crossing is a small swale which has very little flow. Beaver dam has blocked flow to create a large flood upstream. The dam is approximately 1.5m. Dam may be removed if not possible to cross downstream from its location. The site has organic substrate and no banks. This site is a low wet area surrounded by a mixedwood stand of trembling aspen and white spruce. This crossing was used in 2000.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 December,2022"/>	to <input type="text" value="31 March,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

Existing crossing/dam will be removed only after potential for downstream flooding is assessed.

To upgrade existing crossing, a round culvert with fill will be used. Measures to prevent culvert blockage from beaver may need to be employed.

After harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions.

PROPOSED CROSSING ARL-C01

	Across
No Photo Available Photo will be supplied prior to crossing use.	Upstream
	Downstream



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: ARL-C02		Ownership: LP	
Operating Area:	Arm Lake	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5696290	UTM Easting:	354342
Stream Type:	Other Watercourse	Land Description:	NW-17-28-26-W
Watercourse Name:	N/A	Crossing Inspection Date:	27-April-2020
Channel Width (m):	2.0	Stream Assessment Required:	
Water Depth (m):	0.30	Stream Assessment Complete:	
Road Name:	ARL-1E-1D		

Site Description:

This site is a depression which has water backed up into it from the downstream lake. The depression ends approximately 20 meters upstream of the crossing location. There is a very small beaver dam which will be removed lowering the water.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:




	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 December,2022"/>	to <input type="text" value="31 March,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

After harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions.

PROPOSED CROSSING ARL-C02

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: ARL-C15		Ownership: LP	
Operating Area:	Arm Lake	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5698497	UTM Easting:	350800
Stream Type:	Permanent	Land Description:	NW23-28-27W
Watercourse Name:	N/A	Crossing Inspection Date:	22-March-2021
Channel Width (m):	5.0	Stream Assessment Required:	
Water Depth (m):	N/A	Stream Assessment Complete:	
Road Name:	ARL-1E-2B		

Site Description:

Crossing is narrow point of wetland/lake complex. Approximately 5m of open water with cattails along edge and mixedwood stand on each side. Probably organic/clay substrate.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 December,2022"/>	to <input type="text" value="31 March,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

After harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions.

PROPOSED CROSSING ARL-C15



Across



Upstream



Downstream



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: ARL-C16		Ownership: LP	
Operating Area:	Arm Lake	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5697926	UTM Easting:	353004
Stream Type:	Other Watercourse	Land Description:	NW19-28-26W
Watercourse Name:	N/A	Crossing Inspection Date:	30-April-2021
Channel Width (m):	2.0	Stream Assessment Required:	
Water Depth (m):	0.5	Stream Assessment Complete:	
Road Name:	ARL-1E-2A-1A		

Site Description:

Crossing is swale which has been dammed in the past and is now mostly dry. There are old dams up and downstream of crossing. Substrate is organic/clay. There was no flow at time of inspection.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:




	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 December,2022"/>	to <input type="text" value="31 March,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

After harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions.

PROPOSED CROSSING ARL-C16

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: ARL-C17		Ownership: LP	
Operating Area:	Arm Lake	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5698265	UTM Easting:	352777
Stream Type:	Other Watercourse	Land Description:	NW19-28-26W
Watercourse Name:	N/A	Crossing Inspection Date:	30-April-2021
Channel Width (m):	0.3	Stream Assessment Required:	
Water Depth (m):	0.05	Stream Assessment Complete:	
Road Name:	ARL-1E-2A-1A		

Site Description:

Crossing is a dry overflow channel. There was no water in feature at time of inspection. Substrate is organic/clay.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Crossing Lifespan:

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:




Crossing Duration: Years

Remove after Renewal Activities:

Installation & Removal Notes:

After harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions.

PROPOSED CROSSING ARL-C17

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: ARL-032	Twp & Rge: t28r27w	Cut Block Size: 99.6 ha
OPERATING AREA: Arm Lake	Ownership: Open Crown	Mapsheet: 350569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	73	23.7	38	59%	142	14,087
BA		22.5	34	2%	5	486
WB		17.3	27	10%	23	2,311
Total HW				71%	170	16,884
WS	102	18.6	30	22%	52	5,206
BS	76	15.5	15	2%	4	376
JP				0%	0	0
BF		14.3	21	6%	14	1,424
Total SW				29%	70	7,006
Block Total:					240	23,890

Understory Stems/ha and Distribution					
WS		BS		BF	
287	Uniform	9	Clumped	487	Clumped

Eco Land Classification	1st			2nd			3rd		
	V Type			Eco Site			Soils Summary		
	LFH(cm)	S-Type	Moisture	Surface Texture					
	08	05	13	11	S3	2	Clay Loam		
	23								

Cover Type: N	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 16,040
 SOFTWOOD VOLUME (m3): 6,656

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Lake	30-75	Mcbride Lake located on the W/NW side. Variable 30 to 75m buffer. Harvest as shown on map.
2	Lake	30	West Shanty Lake located on the E side. Harvest as shown on map. Water levels rising flooding buffers.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **796** to **1,195** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is in an area affected by Spruce Budworm. Harvest is being accelerated to capture volume before White Spruce trees die.
 Maintain 300m LOS for elk management.
 Maintain a max of 19 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Keep equipment and debris out of harvested area located on the S side.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	WS	1800	33480

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

Areas of WS understory >500 stems/ha and <6m in height are located in the SW and NE portions of the block (plots 1,7,17,35,37 & 45). Clumps of understory will be protected in patches.
 East side of block being planted.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/29/21
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Minimum 30m buffer on all lakes.</p> <p>No requirement for BF understory protection in budworm area. Remove comment.</p> <p>Minimal access to be left for planting. See operating area general comments.</p> <p>300 m LOS for elk.</p>	<p>Projection block. Will assess at time of mitigation. Dependant on SBW status.</p> <p>Will remove comment.</p> <p>Agreed.</p> <p>Agreed.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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Arm Lake - ARL-032



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: ARL-033	Twp & Rge: t28r27w	Cut Block Size: 85.8 ha
OPERATING AREA: Arm Lake	Ownership: Open Crown	Mapsheet: 350569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	71	21.5	33	47%	90	7,739
BA		19.8	40	7%	14	1,179
WB		18.1	29	7%	13	1,148
Total HW				61%	117	10,066
WS	94	19.2	31	12%	22	1,907
BS				0%	0	0
JP				0%	0	0
BF		17.3	23	27%	52	4,497
Total SW				39%	75	6,404
Block Total:					192	16,470

Understory Stems/ha and Distribution					
WS		BS		BF	
181	Uniform			675	Uniform

Eco Land Classification			Soils Summary					
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture	
		13	08	01	04	S5	2	Silt Loam
Eco Site			23					

Cover Type: N	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 8,225
 SOFTWOOD VOLUME (m3): 5,272

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3	4
Wetland	MFZ	Located on the S side. Structure will be maintained. Harvest as shown on map.	
Lake	30-75	Arm Lake located on the E side. Variable 30 to 75m buffer. Harvest as shown on map.	
Lake	30-50	West Shanty Lake located on the SW side. Variable 30 to 50m buffer. Harvest as shown on map.map.	
Lake	30	McBride Lakes located on the N side. Harvest as shown on map.	

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **686** to **1,030** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain a maximum of 17 WDP approximately 30-70m from the block edge, and near riparian areas and/or adjacent softwood stands where possible.
 Approximately 14 hectares of this block was harvested in 2020. The volumes shown indicate this. Majority of the softwood is BF which will not be harvested.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2021	Sp	WS	1400	14040

Survey Summary		
Type	Series	Year
Plantation Survival	First	2022
Regeneration	First	2031

RENEWAL COMMENTS/ISSUES:

Areas of WS understory >500 stems/ha and <6m in height are located in the N portion of the block (plots 24 and 30). Clumps of understory will be protected in patches.

Areas of BF understory >500 stems/ha and <6m in height are located throughout the block (Plots 4,8,12,14,16,20,22 & 28). These areas will be harvested with concentrated clumps of BF being maintained.

Planting S side of block in WS areas if required.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/18/19
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Minimum 30m buffer on all lakes.</p>	<p>Agreed. Will assess at time of operations. Contingent on SBW within buffer. Look at selective harvest of infested spruce within 30 m buffer.</p>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: ARL-034	Twp & Rge: t28r26w	Cut Block Size: 33.5 ha
OPERATING AREA: Arm Lake	Ownership: Open Crown	Mapsheet: 350569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	111	21.7	33	63%	168	5,630
BA		19.5	33	5%	13	447
WB		16.4	24	7%	17	586
Total HW				75%	199	6,663
WS	90	18.7	30	21%	57	1,908
BS				0%	0	0
JP				0%	0	0
BF		14.0	19	4%	11	367
Total SW				25%	68	2,275
Block Total:					267	8,938

Understory Stems/ha and Distribution					
WS		BS		BF	
75	Clumped			63	Clumped

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type	08	05	13	07	S5	2	Silty Clay Loam
Eco Site	33						

Cover Type: N	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 6,330
 SOFTWOOD VOLUME (m3): 2,162

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3	4	5
Lake	MFZ-75	Reedy Lake located on the E side. Variable MFZ to 75m buffer. Harvest as shown on map.		
Wetland	MFZ to 100	Stream/wetland complex located on the E side. Variable MFZ to 100m buffer. Harvest as shown on map.		
Wetland	MFZ	Located on the S side. Structure will be maintained. Harvest as shown on map.		
Wetland	50-75	Located on the N side. Variable 50 to 75m buffer. Harvest as shown on map.		
Lake	30-100+	Arm Lake located on the W side. Variable 30 to 100+m buffer. Harvest as shown on map.		

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **268** to **402** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is in an area affected by Spruce Budworm. Harvest is being accelerated to capture volume before White Spruce trees die.
 Maintain 300m LOS for elk management.

Arm Lake



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **N**

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	WS	1600	9720

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

Middle of block is will be planted. Have a landing of no debris on the road for a helicopter landing.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/29/21
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>No requirement for BF understory protection in budworm area. Remove comment.</p> <p>Minimal access to be left for planting. See operating area general comments.</p> <p>Remove northern tip of block to create 100m between this block and VR-226.</p> <p>Maintain 300m LOS for elk.</p>	<p>Will remove comment.</p> <p>Agreed.</p> <p>Agreed.</p> <p>Agreed. Will add comment.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: ARL-035	Twp & Rge: t28r26w	Cut Block Size: 35.6 ha
OPERATING AREA: Arm Lake	Ownership: Open Crown	Mapsheet: 350569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA		19.2	29	48%	83	2,951
BA				0%	0	0
WB		15.4	23	11%	19	661
Total HW				58%	102	3,612
WS	112	16.7	30	42%	73	2,587
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				42%	73	2,587
Block Total:					174	6,199

Understory Stems/ha and Distribution					
WS		BS		BF	
122	Uniform				

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type	08	13		06	S6	2	Silty Clay Loam
Eco Site	31						

Cover Type: N	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 3,358
 SOFTWOOD VOLUME (m3): 2,493

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3	4
Wetland	MFZ-30	Located in the S and central portions of the block. Variable MFZ to 30m buffer. Harvest as shown on map.	
Lake	30-50	Arm Lake located on the SW side. Variable 30 to 50m buffer. Harvest as shown on map.	
Lake	30-50	Reedy Lake located on the NW side. Variable 30 to 50m buffer. Harvest as shown on map.	
Wetland	30	Located on the NE side. Harvest as shown on map.	

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **284** to **427** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is in an area affected by Spruce Budworm. Harvest is being accelerated to capture volume before White Spruce trees die.
 Maintain a max of 7 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Close access to the north half of the block post harvest. Not required for renewal.
 Keep equipment and debris out of harvest area located on the SE side of the block.

Arm Lake



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **N**

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	WS	1800	24120

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

Southern part of block being planted. Have a landing with no debris for the helicopter on the road close to the south side of the block.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/29/21
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>If not planting N half of block access to this portion to be closed post harvest.</p> <p>Minimal access to be left for planting. See operating area general comments.</p> <p>Increase MFZ on the NE side to 30m minimum.</p>	<p>Agreed.</p> <p>Agreed.</p> <p>Agreed.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: ARL-037	Twp & Rge: t28r26w	Cut Block Size: 42.8 ha
OPERATING AREA: Arm Lake	Ownership: Open Crown	Mapsheets: 350569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	102	24.2	38	55%	124	5,300
BA		20.3	25	8%	19	807
WB				0%	0	0
Total HW				64%	143	6,107
WS	86	22.0	31	36%	81	3,448
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				36%	81	3,448
Block Total:					223	9,555

Understory Stems/ha and Distribution							
WS		BS		BF			
200	Uniform						
Eco Land Classification							
Eco Land Classification			Soils Summary				
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
	05	13	08	07	S4	2	Silt
Eco Site			23				
Cover Type: N		IBWC Cnt: 0					

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 5,917
 SOFTWOOD VOLUME (m3): 3,275

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3
Wetland	MFZ	Located on the SE side. Structure will be maintained. Harvest as shown on map.
Wetland	30	Located on the SW side. Harvest as shown on map.
Lake	30	Manitoba Lake located on the NW side. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 343 to 514 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is in an area affected by Spruce Budworm. Harvest is being accelerated to capture volume before White Spruce trees die.
 Maintain a max of 8 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Maintain ATV trail near plot 4 free of debris. Trapper uses this trail.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	WS	1800	15840

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

Southern part of block being planted. Ensure helicopter landing close by, area with no debris on road.

Area of WS understory >500 stems/ha and <6m in height is located in the S portion of the block (plot 5). Clumps of understory will be protected in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/29/21
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Has adjacency been met to east and north? If not a 30 m visual barrier will be required.	Already at least a 30m buffer on the N side except where road goes into ARL-017. Only about 250m of the E side is adjacent to block ARL-016. Area is in the spruce budworm salvage and will be harvested as shown. Block already permitted for harvest.	<input checked="" type="checkbox"/>
Can this access be permanently closed after ARL-039 and this block are completed? Minimal access to be left for planting. See operating area general comments. Increase the MFZ on the SW side to 30 m minimum.	Yes after all harvest north of this block is complete the access can be closed. Agreed. Agreed.	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

Arm Lake - ARL-037



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: ARL-045	Twp & Rge: t28r27w	Cut Block Size: 91.6 ha
OPERATING AREA: Arm Lake	Ownership: Open Crown	Mapsheet: 350569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
V Type	1st	2nd	3rd	LFH(cm)	S-Type
				Moisture	Surface Texture
Eco Site					
Cover Type:	IBWC Cnt: 0				

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): **16,486**
 SOFTWOOD VOLUME (m3): **9,159**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3	4	5
Lake	MFZ-30	Double Lake located on the E side. Harvest as shown on map.		
Lake	MFZ	Located on the S side. Structure will be maintained. Harvest as shown on map.		
Wetland	MFZ	Located on the NE side. Structure will be maintained. Harvest as shown on map.		
Lake	15-30	Crooked Lake located on the SW side. Harvest as shown on map.		
Lake	15-30	West Shanty Lake located on the N side. Harvest as shown on map.		

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **733** to **1,099** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 This block is in an area affected by Spruce Budworm. Harvest is being accelerated to capture volume before White Spruce trees die.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Regeneration	First	2034

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: ARL-046	Twp & Rge: t28r27w	Cut Block Size: 77.6 ha
OPERATING AREA: Arm Lake	Ownership: Open Crown	Mapsheet: 350569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	93	23.4	35	54%	157	12,183
BA	81	21.0	30	5%	14	1,119
WB	113	18.4	24	5%	15	1,151
Total HW				64%	186	14,453
WS	82	20.3	30	36%	104	8,076
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				36%	104	8,076
Block Total:					290	22,529

Understory Stems/ha and Distribution							
WS		BS		BF			
150	Uniform						
Eco Land Classification			Soils Summary				
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
	08	05	13				
Eco Site	34						
Cover Type:	N		IBWC Cnt:	0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 13,731
 SOFTWOOD VOLUME (m3): 7,673

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Lake	MFZ-15	Double Lake located on the SW side. Variable MFZ to 15m buffer. Harvest as shown on map.
2	Wetland	30	Located on the N side. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **621** to **931** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Survey mound located near plot 6. Avoid mound during harvest.
 This block is in an area affected by Spruce Budworm. Harvest is being accelerated to capture volume before White Spruce trees die.
 Maintain a max of 15 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	WS	1600	23760

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

Area of WS understory >500 stems/ha and <6m in height is located in the SW portion of the block (plot 5). Clumps of understory will be protected in patches.

Leave main road free of debris at the intersection on the South side of the block for a helicopter landing.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/29/21
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Minimal access to be left for planting. See operating area general comments.</p> <p>Increase the MFZ on the N wetland to 30 m minimum.</p>	<p>Agreed.</p> <p>Agreed.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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 Phone: 204-734-4102
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: ARL-055	Twp & Rge: t28r27w	Cut Block Size: 86.8 ha
OPERATING AREA: Arm Lake	Ownership: Open Crown	Mapsheet: 350569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	77	21.3	32	71%	158	13,710
BA		16.5	28	1%	2	172
WB		16.8	24	5%	10	874
Total HW				77%	170	14,756
WS	84	20.6	35	23%	50	4,337
BS				0%	0	0
JP				0%	0	0
BF		15.8	23	1%	2	142
Total SW				23%	52	4,479
Block Total:					222	19,235

Understory Stems/ha and Distribution					
WS		BS		BF	
141	Clumped				

Eco Land Classification				Soils Summary			
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
	08	05	13	10	S5	1	Silty Clay Loam
	Eco Site: 33						

Cover Type: H	IBWC Cnt: 1
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 13,954
 SOFTWOOD VOLUME (m3): 4,236

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3	4	5
Lake	MFZ-30	Chubb Lake located on the E side. Variable MFZ to 30m buffer. Lake flooding. Harvest as shown on map.		
Wetland	MFZ-30	Located in the center of the block. Variable MFZ to 30m buffer. Wetland is expanding. Harvest as shown on map.		
Wetland	MFZ	Located on the S and SW side. Wetland is expanding. Harvest as shown on map.		
Lake	30-100	Located on the W side. Variable 30 to 100m buffer. Lake is expanding. Harvest as shown on map.		
Lake	30	Located on the N side. Lake is expanding. Harvest as shown on map.		

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **694** to **1,041** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

The White Spruce in this area is infected with Spruce Budworm. Harvest needs to be accelerated to salvage the spruce before it becomes unmerchantable.
 Maintain a max of 17 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

Areas of WS understory >500 stems/ha and <6m in height are located in the E portion of the block (plots 11, 17, 27 & 31). Clumps of understory will be protected in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **10/29/21**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>This block should be the last block harvested on this access so the road can be closed well. Increase the MFZ on the W, N and E side to 30 m minimum.</p>	<p>Agreed. I believe this road is used by trapper and outfitters. Will want to maintain at least ATV access. Increased the buffer on the N side to 30m and the W side to 30-100. Left the E side as MFZ to 30.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: ARL-063	Twp & Rge: t28r26w	Cut Block Size: 57.4 ha
OPERATING AREA: Arm Lake	Ownership: Open Crown	Mapsheets: 350569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	110	23.6	33	77%	209	12,023
BA				0%	0	0
WB		15.0	22	0%	1	54
Total HW				77%	210	12,077
WS	75	18.3	28	23%	63	3,624
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				23%	63	3,624
Block Total:					273	15,701

Understory Stems/ha and Distribution					
WS		BS		BF	
50	Clumped				

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type	08	05	09	14	S5	2	Loamy Sand
Eco Site	33						

Cover Type: H	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 11,473
 SOFTWOOD VOLUME (m3): 3,465

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3
Wetland	MFZ-15	Located along the E side. Variable MFZ to 15m buffer. Harvest as shown on map.
Lake	30-50	Located on the S side. Variable 30 to 50m buffer. Harvest as shown on map.
Lake	15	Located on the NW side. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **460** to **689** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is in an area affected by Spruce Budworm. Harvest is being accelerated to capture volume before White Spruce trees die.
 Maintain a max of 11 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Maintain existing trail located near plots 15 to 21 free of debris.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/29/21
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Area plant is checked off but there is no other planting info.
 Is access to main road north of this block possible. If possible remove some of the block.

Not sure why as this is an H block and silviculture did not review this block.
 There is no access to the main road to the north.

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-



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: ARL-064	Twp & Rge: t28r26w	Cut Block Size: 20.1 ha
OPERATING AREA: Arm Lake	Ownership: Open Crown	Mapsheet: 350569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	95	21.4	28	77%	232	4,651
BA		21.7	31	5%	16	314
WB				0%	0	0
Total HW				82%	248	4,965
WS	81	20.1	29	18%	55	1,105
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				18%	55	1,105
Block Total:					303	6,070

Understory Stems/ha and Distribution					
WS		BS		BF	
143	Uniform				

Eco Land Classification			Soils Summary				
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
		08	05		07	S5	2

Eco Site	42
Cover Type: H	IBWC Cnt: 0

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 5,038
 SOFTWOOD VOLUME (m3): 1,173

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3	4
Wetland	MFZ-15	Located on N side. Variable MFZ to 15m buffers. Harvest as shown on map. Water levels are rising.	
Lake	MFZ	Located on the S side. Structure will be maintained. Harvest as shown on map.	
Wetland	MFZ	Located on the E side. Floods expanding. Structure will be maintained. Harvest as shown on map.	
Wetland	30	Located on the W side. Harvest as shown on map.	

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **160** to **241** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain a max of 4 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Maintain existing trail that runs through the block from the SW tip to the NE tip.
 Keep equipment and debris out of harvested area located on the SE side.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **10/29/21**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: ARL-500	Twp & Rge: t28r26w	Cut Block Size: 384.7 ha
OPERATING AREA: Arm Lake	Ownership: Open Crown	Mapsheet: 350569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **44,239**
 SOFTWOOD VOLUME (m3): **28,852**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3	4
Wetland	MFZ-30	Located in the block. Variable MFZ to 30m buffer. Harvest as shown on map.	
Lake	50-100+	Burrows Lake located on the E and N sides. Variable 50 to over 100m buffer. Harvest as shown on map.	
Lake	30-75	Lake/wetland complex located on the NW side. Variable 30 to 75m buffer. Harvest as shown on map.	
Lake	30-100+	Tank Lake and smaller lakes located on the S side. Variable 30 to 100m plus buffer. Harvest as shown on map.	

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **3,078** to **4,616** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 This block is in an area affected by Spruce Budworm. Harvest is being accelerated to capture volume before White Spruce trees die.
 This is a large block with many leave areas which will mitigate LOS concerns.
 Maintain a max of 75 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Maintain trail on west side of block free of debris. Used by trapper.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Does block exceed 150 ha.</p> <p>No harvest E of trail at SE end of Burrows Lake at the dam.</p>	<p>Yes. Block is 385 ha's. Block could be made into a number of smaller portions if needed.</p> <p>Agreed. Will remove area.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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Integrated Operations by Operating Area

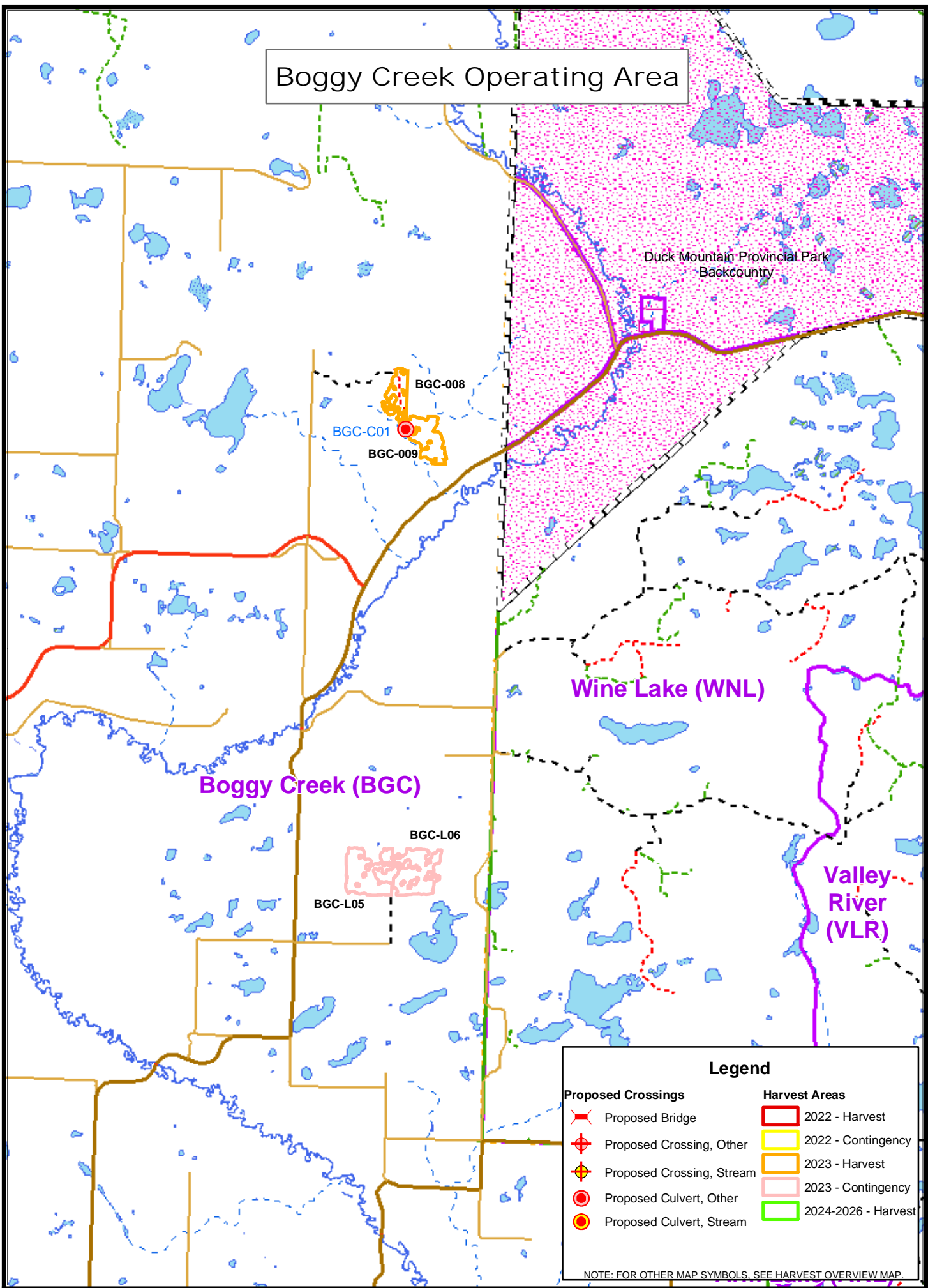
Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 10

Boggy Creek

BGC-008		21.99 Hectares	2023 Harvest
HW Allocation	4,495 m3	LP	
SW Allocation	609 m3	SPL	
BGC-009		32.33 Hectares	2023 Harvest
HW Allocation	4,490 m3	LP	
SW Allocation	210 m3	SPL	
BGC-L05		44.39 Hectares	2023 Contingency
HW Allocation	7,590 m3	LP	
SW Allocation	759 m3	SPL	
BGC-L06		43.24 Hectares	2023 Contingency
HW Allocation	7,394 m3	LP	
SW Allocation	739 m3	SPL	

Boggy Creek Operating Area



Legend	
Proposed Crossings	
	Proposed Bridge
	Proposed Crossing, Other
	Proposed Crossing, Stream
	Proposed Culvert, Other
	Proposed Culvert, Stream
Harvest Areas	
	2022 - Harvest
	2022 - Contingency
	2023 - Harvest
	2023 - Contingency
	2024-2026 - Harvest

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.

Internal Mitigation Comments

General

Operating Area	Concern	Manitoba	Action/Response
Boggy Creek	Access Control	Where ATV access is to be left for renewal purposes, only one central access may be retained. No in block spur roads are to be left. A limited number of strategically distributed helicopter landing areas may be left on roads and landings. Access to be closed following completion of planting activities by no later than July 31, unless separate approval is applied for.	Agreed. Will determine on a site by site basis.

Site Specific

Block	Concern	Manitoba	Action/Response
BGC-008	Wildlife Ungulate	Require 300 m LOS for elk.	
BGC-008	Forest Renewal	Wherever possible, leave WS seed trees in wind firm patches.	Agreed
BGC-009	Wildlife Ungulate	Require 300 m LOS for elk.	Agreed
	Forest Renewal	Wherever possible, leave WS seed trees in wind firm patches.	Agreed
BGC-L05 + BGC-L06	Wildlife Ungulate.	These quarters are heavily used by ungulates. They are an elk calving area, and a refuge the elk come to when pressured by hunters. Much of the private bush around here has been cleared as recently as November. Would prefer these blocks be deleted.	Would like to discuss these quarters further. Block BGC-L06 has bush on the N and E sides. If we just harvest this now there would still be bush on 3 sides. The quarter to the S has been a field for years.
		Due to time limitations, this will have to be discussed on a case by case basis, at the time of harvest.	RE: above comment.

Roads

Boggy Creek

BGC-3A (existing)

Additional Road Development Comments

This road accesses block BGC-008 and is part of the access to block BGC-009. The existing road will be upgraded to allow hauling.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.6	20	8	Dry/Frozen	50

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This is an existing road which will remain open.

BGC-3B

Additional Road Development Comments

This road accesses block BGC-009.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.1	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed at selected locations in block BGC-008.

BGC-5A (existing)

Additional Road Development Comments

This road is an existing RM road allowance and accesses blocks BGC-L05 and L06.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.8	20	8	Dry/Frozen	50

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This is an existing RM right of way and will remain open.



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: BGC-C01		Ownership: LP	
Operating Area:	Boggy Creek	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5714171	UTM Easting:	341705
Stream Type:	Other Watercourse	Land Description:	SE11-30-28W
Watercourse Name:	N/A	Crossing Inspection Date:	11-May-2016
Channel Width (m):	N/A	Stream Assessment Required:	
Water Depth (m):	N/A	Stream Assessment Complete:	
Road Name:	BGC-3B		

Site Description:

Crossing is an alder swale/thicket swamp in a mixedwood stand. There are no definable banks or channel. There is approximately 10m of sedge complex at crossing location. The substrate is organic.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>




Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 September,2023"/>	to <input type="text" value="01 July,2024"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

If a snow and ice crossing is used after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions. A minimum 12 inch culvert is required.

After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING BGC-C01

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: BGC-008	Twp & Rge: t30r28w	Cut Block Size: 22.0 ha
OPERATING AREA : Boggy Creek	Ownership: Open Crown	Mapsheet: 340571
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	77	20.8	25	83%	202	4,438
BA	85	21.3	36	5%	13	294
WB				0%	0	0
Total HW				88%	215	4,732
WS	90	18.5	28	12%	29	629
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				12%	29	629
Block Total:					244	5,361

Understory Stems/ha and Distribution					
WS		BS		BF	
29	Clumped				

Eco Land Classification	1st			2nd			3rd		
	V Type	08	05						
	Eco Site	33							

Soils Summary			
LFH(cm)	S-Type	Moisture	Surface Texture
06	S5	2	Loam

Cover Type: H	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 4,495
 SOFTWOOD VOLUME (m3): 609

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	15-75	Located on the S side. Variable 15 to 75m buffer. Harvest as shown on map.
2	Farmland	15-30	Located on the E side. Variable 15 to 30m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 176 to 264 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Block is very hilly at the S end.
 This block is on NE/SE11-30-28W which is coded A/C.
 SPL will need to transfer softwood quota to FMU 10 to declare the spruce.
 Maintain some WS seed trees in wind firm patches where possible.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **9/15/21**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Wherever possible, leave WS seed trees in wind firm patches.

Agreed will add comment.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: BGC-009	Twp & Rge: t30r28w	Cut Block Size: 32.3 ha
OPERATING AREA: Boggy Creek	Ownership: Open Crown	Mapsheet: 340571
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	76	22.7	39	78%	120	3,881
BA	64	19.5	27	17%	26	845
WB				0%	0	0
Total HW				96%	146	4,726
WS		14.4	28	4%	7	221
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				4%	7	221
Block Total:					153	4,947

Understory Stems/ha and Distribution					
WS		BS		BF	
75	Uniform				
Eco Land Classification					
V Type			Soils Summary		
Eco Site			1st	2nd	3rd
33			05	01	08
LFH(cm)	S-Type	Moisture	Surface Texture		
11	S6	1	Sandy Clay Loam		
Cover Type: H		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 4,490
 SOFTWOOD VOLUME (m3): 210

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	15-75	Located on the S side. Variable 15 to 75m. Harvest as shown on map.
2	Farmland	15	Located on the N side. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **259** to **388** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

- Maintain 300m LOS for elk management.
- Maintain existing quad trail free of debris that runs through the block.
- Maintian some WS seed trees in wind firm patches where possible.
- Bear bait located near plot 7. Bait not signed. Unable to contact owner.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **9/15/21**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Wherever possible, leave WS seed trees in wind firm patches. Require 300 m LOS for elk.</p>	<p>Agreed will add comment. Agreed will add comment.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: BGC-L05	Twp & Rge: t29r28w	Cut Block Size: 44.4 ha
OPERATING AREA: Boggy Creek	Ownership: Open Crown	Mapsheet: 340570
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st			2nd		
3rd			LFH(cm)		
V Type			S-Type		
Eco Site			Moisture		
			Surface Texture		
Cover Type:			IBWC Cnt: 0		

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 7,590
 SOFTWOOD VOLUME (m3): 759

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on the N side. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 355 to 533 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 Block is on the NE14-29-28W which is coded A/C/7a. Leased to L & D Hawrychuk. Phoned Ann Hawrychuk: 937-3481. SE1-29-28. Quarter is no longer leased.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>These quarters used by ungulates. Elk calving area. Some private land harvested. Defer.</p> <p>Due to time limitations this will be discussed on a case by case basis at time of harvest.</p>	<p>Would like to discuss these quarters further. Block BGC-L06 has bush on the N and E sides. If we just harvest this now there would still be bush on 3 sides. The quarter to the S has been a field for years.</p> <p>RE: above comment.</p>	<input type="checkbox"/> <input type="checkbox"/>
--	--	--

Boggy Creek - BGC-L05



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: BGC-L06	Twp & Rge: t29r28w	Cut Block Size: 43.2 ha
OPERATING AREA : Boggy Creek	Ownership: Open Crown	Mapsheet: 340570
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **7,394**
 SOFTWOOD VOLUME (m3): **739**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on the N side. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **346** to **519** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 Block is on the NW13-29-28W which is coded A/C/7a. Leased to L & D Hawrychuk. Phoned Ann Hawrychuk: 937-3481. SE1-29-28. Quarter is no longer leased.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

These quarters used by ungulates. Elk calving area. Some private land harvested. Defer.

Due to time limitations this will be discussed on a case by case basis at time of harvest.

Would like to discuss these quarters further. Block BGC-L06 has bush on the N and E sides. If we just harvest this now there would still be bush on 3 sides. The quarter to the S has been a field for years.

RE: above comment.

Boggy Creek - BGC-L06



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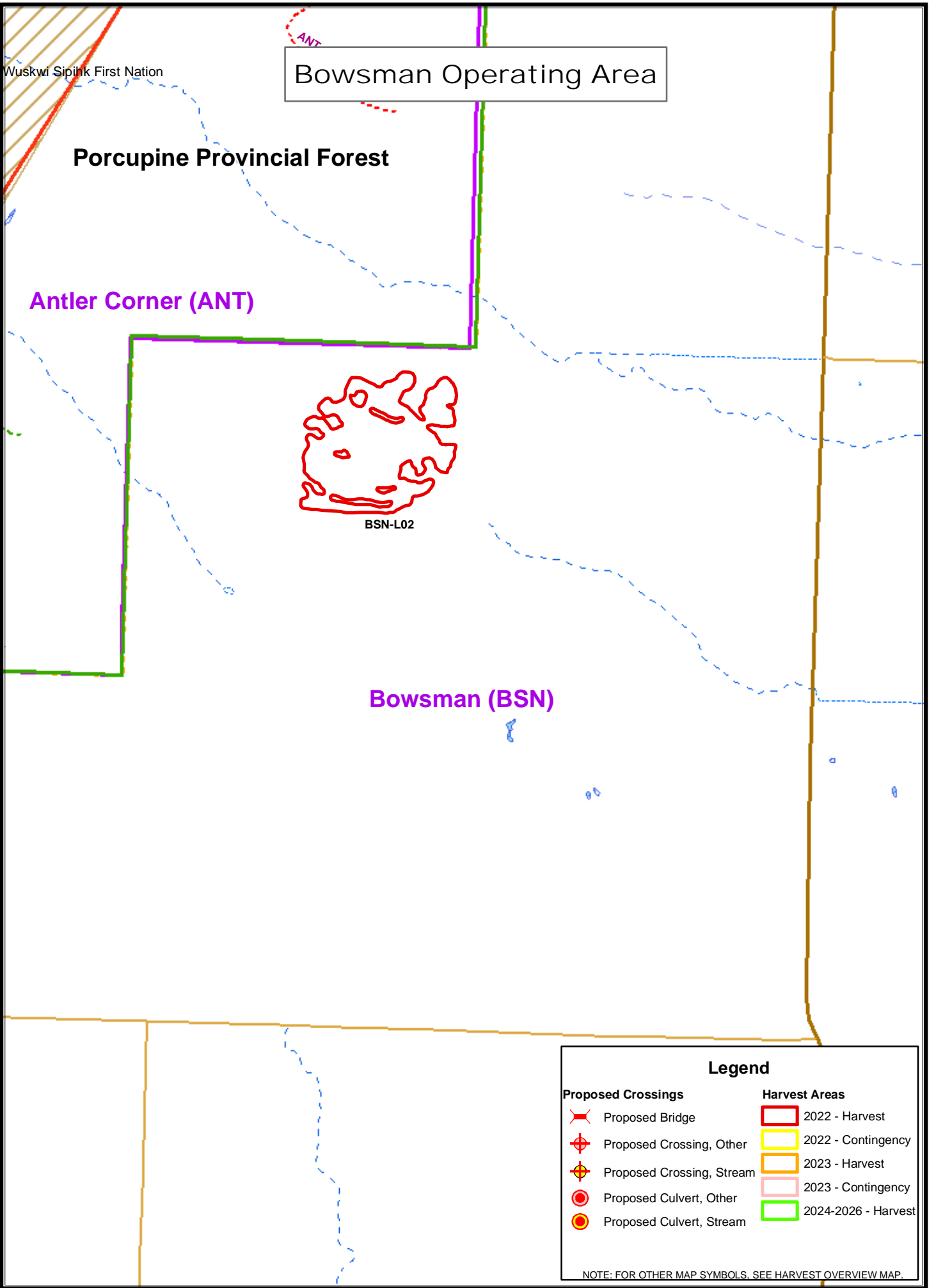
Integrated Operations by Operating Area

Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 11

Bowsman

BSN-L02	32.60 Hectares	2022 Harvest
HW Allocation	5,580 m3	Quota Holder/LP
SW Allocation	0 m3	SPL



Bowsman Operating Area

Wuskwil Sipihk First Nation

Porcupine Provincial Forest

Antler Corner (ANT)

BSN-L02

Bowsman (BSN)

Legend

Proposed Crossings		Harvest Areas	
	Proposed Bridge		2022 - Harvest
	Proposed Crossing, Other		2022 - Contingency
	Proposed Crossing, Stream		2023 - Harvest
	Proposed Culvert, Other		2023 - Contingency
	Proposed Culvert, Stream		2024-2026 - Harvest

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: BSN-L02	Twp & Rge: t39r26w	Cut Block Size: 32.6 ha
OPERATING AREA: Bowsman	Ownership: Open Crown	Mapsheet: 350580
LICENCE: FML 3	Management Unit: 11	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	76	19.1	22	71%	128	4,174
BA		17.5	21	29%	52	1,700
WB				0%	0	0
Total HW				100%	180	5,874
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					180	5,874

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
			1st	2nd	3rd
V Type			05	01	
Eco Site			11		
Cover Type: H		IBWC Cnt: 0			
LFH(cm)	S-Type	Moisture	Surface Texture		
17	S1	0	Loamy Sand		
06	S3	1	Loamy Sand		
11	S1	0	Loamy Sand		

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **Quota Holder/LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **5,580**
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **261** to **391** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is on NE9-39-26W which is coded 7a. This land is leased by Donald Mullin.
 Willow, beaked hazel, alder, rose, raspberry, fireweed, thistle and blue-joint grass are present in this block.
 This block has relatively flat topography.
 Block is flat and pure hardwood stand, ensure WTP's of varying sizes are maintained throughout the block to mitigate for line of sight.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2026

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/18/13
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Elk use area.300m LOS and harvest outside of calving season. Comment from 2019. Harvest adjacent to TLE. If TLE harvest occurs blocks may be deferred. No harvest without approved site plan and grazing plan.</p>	<p>Agreed. There are wet areas within the block so this would likely be winter harvest, outside of elk calving season. Blocks not adjacent to TLE. Depending on lease situation.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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Integrated Operations by Operating Area

Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 13

Clearwater Creek

CWC-004	11.82 Hectares		2023 Harvest
HW Allocation	2,233 m3	LP	
SW Allocation	0 m3	SPL	
CWC-005	74.32 Hectares		2023 Harvest
HW Allocation	9,216 m3	LP	
SW Allocation	4,005 m3	SPL	
CWC-006	73.30 Hectares		2023 Harvest
HW Allocation	7,821 m3	LP	
SW Allocation	2,848 m3	SPL	
CWC-007	82.62 Hectares		2023 Harvest
HW Allocation	9,290 m3	LP	
SW Allocation	7,306 m3	SPL	
CWC-115	86.78 Hectares		2023 Harvest
HW Allocation	5,852 m3	LP	
SW Allocation	7,608 m3	SPL	
CWC-116	10.91 Hectares		2023 Harvest
HW Allocation	1,123 m3	LP	
SW Allocation	934 m3	SPL	
CWC-808	79.15 Hectares		2023 Harvest
HW Allocation	475 m3	LP/Quota Holder	
SW Allocation	14,131 m3	SPL	
CWC-810	47.43 Hectares		2023 Harvest
HW Allocation	0 m3	LP/Quota Holder	
SW Allocation	7,301 m3	SPL	
CWC-815	87.21 Hectares		2023 Harvest
HW Allocation	747 m3	LP/Quota Holder	
SW Allocation	18,824 m3	SPL	
CWC-822	44.45 Hectares		2022 Harvest
HW Allocation	0 m3	Quota Holder/LP	
SW Allocation	8,307 m3	SPL	
CWC-836	52.01 Hectares		2023 Harvest
HW Allocation	763 m3	Quota Holder/LP	
SW Allocation	9,066 m3	SPL	
CWC-854	88.28 Hectares		2022 Contingency
HW Allocation	411 m3	Quota Holder/LP	
SW Allocation	13,984 m3	SPL	



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Integrated Operations by Operating Area

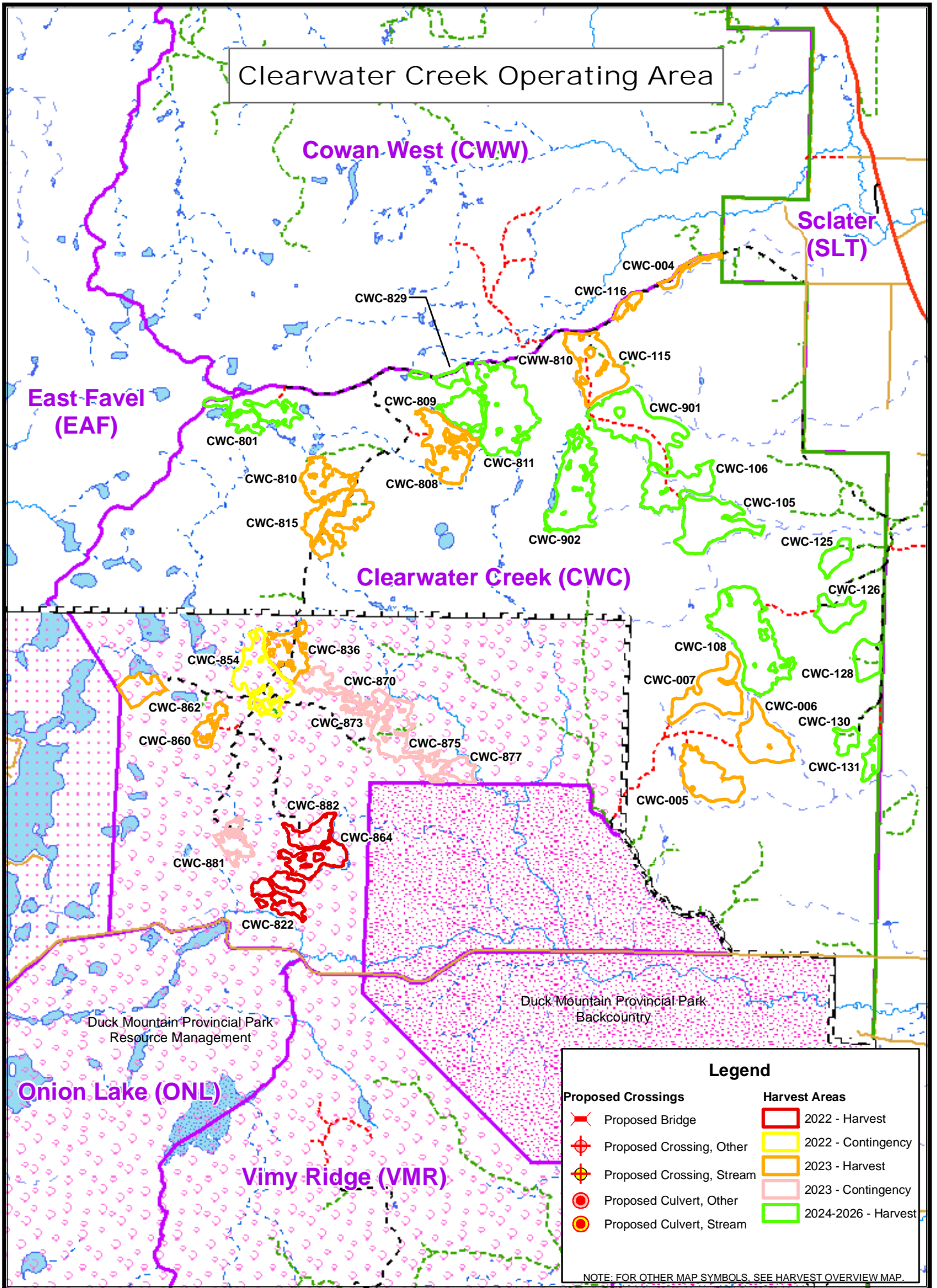
Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML
 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 13

Clearwater Creek

CWC-860	21.15 Hectares		2023 Harvest
HW Allocation	397 m3	Quota Holder/LP	
SW Allocation	3,353 m3	SPL	
CWC-862	32.17 Hectares		2023 Harvest
HW Allocation	2,297 m3	LP/Quota Holder	
SW Allocation	3,756 m3	SPL	
CWC-864	46.11 Hectares		2022 Harvest
HW Allocation	172 m3	Quota Holder/LP	
SW Allocation	9,481 m3	SPL	
CWC-870	24.66 Hectares		2023 Contingency
HW Allocation	346 m3	Quota Holder/LP	
SW Allocation	4,495 m3	SPL	
CWC-873	19.03 Hectares		2023 Contingency
HW Allocation	266 m3	Quota Holder/LP	
SW Allocation	3,463 m3	SPL	
CWC-875	62.21 Hectares		2023 Contingency
HW Allocation	932 m3	Quota Holder/LP	
SW Allocation	12,118 m3	SPL	
CWC-877	36.18 Hectares		2023 Contingency
HW Allocation	517 m3	Quota Holder/LP	
SW Allocation	6,716 m3	SPL	
CWC-881	28.88 Hectares		2023 Contingency
HW Allocation	405 m3	Quota Holder/LP	
SW Allocation	5,260 m3	SPL	
CWC-882	34.31 Hectares		2022 Harvest
HW Allocation	0 m3	Quota Holder/LP	
SW Allocation	7,728 m3	SPL	

Clearwater Creek Operating Area



Cowan West (CWW)

Sclater (SLT)

East Favel (EAF)

Clearwater Creek (CWC)

Onion Lake (ONL)

Vimy Ridge (VMR)

Duck Mountain Provincial Park
Resource Management

Duck Mountain Provincial Park
Backcountry

Legend

Proposed Crossings

- Proposed Bridge
- Proposed Crossing, Other
- Proposed Crossing, Stream
- Proposed Culvert, Other
- Proposed Culvert, Stream

Harvest Areas

- 2022 - Harvest
- 2022 - Contingency
- 2023 - Harvest
- 2023 - Contingency
- 2024-2026 - Harvest

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.

Mitigation Comments

General

Operating Area	Concern	Manitoba	Action/Response
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Clearwater Creek	Access Control	Where ATV access is to be left for renewal purposes, only one central access may be retained. No in block spur roads are to be left. A limited number of strategically distributed helicopter landing areas may be left on roads and landings. Access to be closed following completion of planting activities by no later than July 31, unless separate approval is applied for.	Agreed. Will determine on a site by site basis.
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Site Specific

Block	Concern	Manitoba	Action/Response
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CWC-004	No concerns	No concerns with block as shown.	
CWC-005	Age of Mitigation	Last mitigated 2014. Will revisit mitigation at permit time.	
CWC-006	Age of Mitigation	Last mitigated 2014. Will revisit mitigation at permit time.	
CWC-007	Age of Mitigation	Last mitigated 2014. Will revisit mitigation at permit time.	
CWC-115	Age of Mitigation	Last mitigated 2009. Will revisit mitigation at permit time.	
CWC-116	Age of Mitigation	Last mitigated 2009. Will revisit mitigation at permit time.	
CWC-808	Age of Mitigation	Last mitigated 2015. Will revisit mitigation at permit time.	
CWC-815	Age of Mitigation	Last mitigated 2015. Will revisit mitigation at permit time.	

CWC-854	Age of Mitigation	Last mitigated 2015. Will revisit mitigation at permit time.
CWC-862	Age of Mitigation	Last mitigated 2008. Will revisit mitigation at permit time.
CWC-870, CWC-873, CWC-875, CWC-877, CWC-881	Not Surveyed	Will mitigate after survey.
CWC-810, 822, 836, 860, 864 and 882	No concerns	Blocks were mitigated less than five years ago.

Roads

Clearwater Creek

CWC-1A to 1E (existing)

Additional Road Development Comments

These roads are part of the access to blocks CWC-005 to 007.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
3.8	20	8	Dry/Frozen	50

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP/SPL			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	These are existing roads which will remain open. The berm will be replaced at the start of the road.

CWC-1E-1A (existing)

Additional Road Development Comments

This road is part of the access to CWC-005 to 007. This road was originally used in 2006.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.1	15	6	Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Slash and debris will be spread on this road at selected locations. A berm will also be placed at the start of the road. Maintain ATV access for renewal purposes.

CWC-1E-1B

Additional Road Development Comments

This road is part of the access to CWC-005 to 007.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
2.0	15	6	Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Slash and debris will be spread on this road at selected locations after renewal activities. Maintain ATV access for renewal and survey purposes.

CWC-1E-1B-1A**Additional Road Development Comments**

This road accesses block CWC-007.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.3	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with slash and debris after harvest. Windrow debris along road for closure. Maintain ATV access for renewal purposes.

CWC-1E-1C**Additional Road Development Comments**

This road accesses block CWC-006 and is part of the access to block CWC-007.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.9	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with slash and debris at selected locations. Selected locations include landings and other areas where debris accumulates. Maintain ATV access for renewal purposes.

CWC-1E-1C-1A**Additional Road Development Comments**

This road accesses block CWC-005.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.2	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with slash and debris after harvest. Windrow debris along road for closure. Maintain ATV access for renewal purposes.

CWC-5A to 5C (existing)**Additional Road Development Comments**

This is the main Windy Hill Road up to the intersection into the current harvest area. Blocks SLT-065, CWC-004, 116 and 115 are accessed from these roads. Also blocks CWW-852, 853 and 856 along with future CWW blocks are accessed from these roads.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
4.7	15	6	Frozen	50

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
SPL	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	Off set berms will be placed at the intersection of the Windy Hill Road and the road to the current harvest blocks. Berms will be placed on the west side to restrict through traffic on the Windy Hill Road. A temporary berm will be placed at crossing CWC-C15 during inactive periods.

CWC-5B-1A (existing)

Additional Road Development Comments

This road accesses block CWC-115.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.0	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
SPL	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	A berm will be placed at the start of the road. ATV access is required for renewal purposes.

CWC-5D to 5L (existing)

Additional Road Development Comments

These roads go from the Windy Hill Road up to block CWC-861 (harvested in 2019). They are also part of the access to blocks CWC-808, 810, 815, 822, 836, 854, 860, 862, 864, 870, 873, 877, 881 and 882 .

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
8.1	15	6	Frozen	25

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
SPL	Post-Harvest Post-Renewal	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	When all harvest is completed the crossings will be removed and roads closed with debris at selected locations. Selected locations include landings and other areas where debris accumulates. ATV access will be maintained for renewal purposes and surveys. These roads will be required for at least 3 to 5 more years.

CWC-5D-2A

Additional Road Development Comments

This road accesses block CWC-808.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.5	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
SPL	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed at selected locations in block CWC-803 if debris available. Selected locations include landings and areas where debris accumulates. A berm will also be placed at the start of the road. ATV access will be maintained for renewal purposes and surveys.

CWC-5K-1A to 1C (existing)

Additional Road Development Comments

These roads access block CWC-862.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
2.1	6	15	Frozen	15

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
SPL	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	These roads will be closed with debris at selected locations in CWC-865. This block was harvested in 2007 and may not have enough debris available. ATV access is required for renewal purposes.

CWC-5L-1A and 1B (existing)

Additional Road Development Comments

These roads are part of the access to blocks CWC-822, 864 and 882.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
3.6	15	6	Frozen	5

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
SPL	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	These roads will be closed with slash and debris at selected locations in these blocks. Selected locations include landings and other areas where debris accumulates. ATV access is required for renewal purposes.

CWC-5L-1C

Additional Road Development Comments

This road accesses blocks CWC-822, 864 and 882.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.0	15	6	Frozen	3

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Slash and Debris	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
SPL	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed at selected locations in blocks CWC-882 and 864. ATV access is required for renewal and survey purposes.

CWC-5M (existing)

Additional Road Development Comments

This road accesses block CWC-881. This road was last used in 2014.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
2.6	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Slash and Debris	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
SPL	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed at selected locations in blocks CWC-861, 872 and 878 (previous harvest). ATV access is required for renewal and survey purposes.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWC-004	Twp & Rge: t34r23w	Cut Block Size: 11.8 ha
OPERATING AREA : Clearwater Creek	Ownership: Open Crown	Mapsheet: 380575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	83	21.5	26	94%	187	2,209
BA				0%	0	0
WB		16.5	24	6%	12	142
Total HW				100%	199	2,351
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					199	2,351

Understory Stems/ha and Distribution					
WS		BS		BF	
150	Clumped				

Eco Land Classification			Soils Summary				
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
	Eco Site				07	S3	2

Cover Type: H	IBWC Cnt: 1
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 2,233
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	30-50	Located on the S side. Variable 30 to 50m buffer. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 95 to 142 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Windy Hill road will be used to pile wood. Block is very narrow and stream on south side will provide LOS barrier to the south.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **9/15/21**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

No concerns.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWC-005	Twp & Rge: t33r23w	Cut Block Size: 74.3 ha
OPERATING AREA : Clearwater Creek	Ownership: Open Crown	Mapsheets: 380574
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	74	19.2	33	39%	74	5,477
BA	61	17.9	31	20%	37	2,783
WB		15.1	24	10%	19	1,442
Total HW				70%	131	9,702
WS	79	18.5	37	22%	41	3,048
BS	80	15.9	22	5%	9	663
JP	88	20.5	35	3%	5	379
BF		13.6	21	1%	2	126
Total SW				30%	57	4,216
Block Total:					187	13,918

Understory Stems/ha and Distribution					
WS		BS		BF	
169	Uniform	50	Clumped	259	Clumped

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	08	05	01
Eco Site			

LFH(cm)	S-Type	Moisture	Surface Texture
05	S5	2	Silty Clay
04	S5	2	Silty Clay

Cover Type: N	IBWC Cnt: 7
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 9,216
 SOFTWOOD VOLUME (m3): 4,005

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

FEATURE	WIDTH (m)	DETAILS
1 Stream	50	Located on the W side. Harvest as shown on map.
2 Stream	100	Located on S side. Harvest as shown on map.

NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **595** to **892** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel, rose, raspberry, alder and blue-joint grass are present in the block.
 This block has relatively flat topography and gradually slopes to the east.
 Maintain a max of 14 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Snags scattered throughout the block; maintain within WTP's where safe to do so.
 Maintain shrub and tree structure along seasonal stream located in the centre, N edge and E tip of the block.
 A small spring located on the W side of block. Maintain structure around this feature.
 Keep harvest activity out of adjacent cut overs on NE side.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2024	Sp	BS	1000	15000
2024	Sp	JP	1000	5000
2024	Sp	WS	1000	50000

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Reforestation	First	2034

RENEWAL COMMENTS/ISSUES:

Areas of BF understory >500 stems/ha and <6m in height are located in the N and central portions of the block (Plots 2, 15, 16 and 23). These areas will be harvested with concentrated clumps of BF being maintained.

Areas of WS understory >500 stems/ha and <6m in height are located in the central, N and E portions of the block (plots 14, 18 and 42). Clumps of understory will be protected in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/31/14
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>100m RZ on W and S sides.</p> <p>Discuss size and frequency of wildlife debris piles.</p> <p>Protect regen in adjacent harvest area on NE side.</p>	<p>100m on the S side and 50m on the W. Will assist for wind firmness and top of slope at time of harvest.</p> <p>This was discussed and information will be supplied to Wildlife staff.</p> <p>Harvest and trees will be kept out of these areas.</p>
--	--



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWC-006	Twp & Rge: t33r23w	Cut Block Size: 73.3 ha
OPERATING AREA : Clearwater Creek	Ownership: Open Crown	Mapsheets: 380574
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	61	18.7	31	41%	62	4,550
BA		17.4	29	7%	11	787
WB		15.0	24	26%	39	2,895
Total HW				73%	112	8,232
WS	91	20.8	37	23%	36	2,604
BS				0%	0	0
JP				0%	0	0
BF		16.8	25	4%	5	394
Total SW				27%	41	2,998
Block Total:					153	11,230

Understory Stems/ha and Distribution					
WS		BS		BF	
119	Uniform	3	Clumped	94	Clumped

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	08	05	04
Eco Site			

LFH(cm)	S-Type	Moisture	Surface Texture
05	S3	2	Sandy Clay Loam
07	S1	0	Silt Loam

Cover Type: N	IBWC Cnt: 6
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 7,821
 SOFTWOOD VOLUME (m3): 2,848

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	IBWC	15	Maintain a 15 m buffer along in block stream located along S edge of block. Harvest as shown on map.
2	Stream	100	Located on E and N side. 100m or 10m back from top of down slope, whichever is greater. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 586 to 880 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel, alder, raspberry, rose, fireweed and blue-joint grass are present in the block.
 This block has relatively flat topography and gradually slopes to the east.
 Maintain a max of 14 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Snags mainly concentrated in the N half of the block; maintain where safe to do so.
 Maintain shrub and tree structure along seasonal streams located in NE edge and SE corner of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2024	Sp	BS	1000	10000
2024	Sp	WS	1000	60000

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Reforestation	First	2034

RENEWAL COMMENTS/ISSUES:

Areas of BF understory >500 stems/ha and <6m in height are located in the N end of the block (Plots 32 and 39). These areas will be harvested with concentrated clumps of BF being maintained.

Areas of WS understory >500 stems/ha and <6m in height are located in the central portion of the block (plots 21, 26 and 27). Clumps of understory will be protected in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/31/14
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Discuss size and frequency of wildlife debris piles.</p> <p>Proposed crossings for inblock drains.</p>	<p>This was discussed and information will be supplied to Wildlife staff.</p> <p>There are 2 crossings. These crossings will be snow and ice.</p>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWC-007	Twp & Rge: t33r23w	Cut Block Size: 82.6 ha
OPERATING AREA : Clearwater Creek	Ownership: Open Crown	Mapsheet: 380574
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	74	20.0	33	37%	78	6,478
BA		18.3	27	8%	16	1,354
WB		15.0	25	11%	24	1,947
Total HW				56%	118	9,779
WS	88	19.8	37	15%	32	2,633
BS	91	17.8	24	25%	52	4,312
JP		20.0	42	0%	1	48
BF		16.3	24	4%	8	698
Total SW				44%	93	7,691
Block Total:					211	17,470

Understory Stems/ha and Distribution					
WS		BS		BF	
18	Clumped	32	Clumped	354	Uniform

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	17	08	05
Eco Site			

Soils Summary	
LFH(cm)	S-Type
06	S6

Moisture	2
Surface Texture	Silty Clay Loam

Cover Type: N	IBWC Cnt: 1
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 9,290
 SOFTWOOD VOLUME (m3): 7,306

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	100	Located on E and S sides. 100m or 10m back from top of down slope, whichever is greater. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 661 to 991 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has increased in size from 61.5 to 82.6 hectares. Area added to the west side of block to avoid trapped wood.
 Beaked hazel, rose, raspberry, fireweed and blue-joint grass are present in the block.
 This block has relatively flat topography.
 Maintain a max of 16 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Snags mainly concentrated within the center of the block; maintain where safe to do so.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2024	Sp	BS	1000	35000
2024	Sp	WS	1000	30000

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Reforestation	First	2034

RENEWAL COMMENTS/ISSUES:

Whole-tree harvesting of spruce may be necessary along N and W portions of block.

Areas of BF understory >500 stems/ha and <6m in height are located in the N and S ends of the block (Plots 2, 6, 7, 28, 32, 33, 36 and 37). These areas will be harvested with concentrated clumps of BF being maintained.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/31/14
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>How will C19 and C05 be crossed for site prep?</p> <p>Discuss size and frequency of wildlife debris piles.</p> <p>Partial WTL approved only in areas with high concentration of WS.</p>	<p>If site prep is done pipe bundles will be used. During tree plant a quad bridge or pipe bundles will be used for ATV access.</p> <p>This was discussed and information will be supplied to Wildlife staff.</p> <p>Agreed. Follow the guideline.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWC-115	Twp & Rge: t34r24w	Cut Block Size: 86.8 ha
OPERATING AREA: Clearwater Creek	Ownership: Open Crown	Mapsheets: 380575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	78	21.1	36	28%	46	4,003
BA		18.8	37	6%	10	902
WB	157	15.2	30	9%	14	1,255
Total HW				43%	71	6,160
WS	114	21.0	40	6%	10	895
BS	128	15.9	19	24%	39	3,397
JP	117	19.4	26	18%	30	2,565
BF	76	17.6	29	8%	13	1,151
Total SW				57%	92	8,008
Block Total:					163	14,168

Understory Stems/ha and Distribution					
WS		BS		BF	
135	Clumped	89	Clumped	127	Clumped

Eco Land Classification	1st			2nd			3rd		
	V Type			Eco Site					
	05	08	09	24	34	33			

Soils Summary			
LFH(cm)	S-Type	Moisture	Surface Texture
07	S10	6	Loamy Sand
07	S5	2	Sandy Clay Loam
05	S5	2	Silty Sand
09	S3	2	Silty Sand

Cover Type: M	IBWC Cnt: 6
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 5,852
 SOFTWOOD VOLUME (m3): 7,608

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

1	Roads	50	Windy Hill road located along N side. Harvest as shown on map.
2	Stream	50	Located along S side. Harvest as shown on map.
3	Wetland	15	Located on W side. Variable buffer. Harvest as shown on map.

NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **694** to **1,041** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Block has been edited in the 2022 operating plan to add additional area due to loss of merchantable wood in adjacent area.

Blue-joint grass is present throughout the block. Beaked hazel, alder, raspberry and rose are present in most of the block. Willow and fireweed are present in small amounts.

This block has generally flat topography.

Small wetlands and inblock swales located in the centre of the block, N edge and along E side of the block, maintain shrub and treed structure around these areas.

Maintain a max of 16 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.

Snags mainly concentrated in the N edge of the block; maintain in WTP's where safe to do so.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: M

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2024	Sp	BS	1800	50400
2024	Sp	JP	1800	7200
2024	Sp	WS	1800	14400

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Reforestation	First	2038

RENEWAL COMMENTS/ISSUES:

Areas of WS understory >500 stems/ha are located in the central and W central portions of the block (plots 11,12,22 and 29). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

Areas of BF understory >500 stems/ha and <6m in height are located along the N, NW and S sides of the block (Plots 1,19,30,35,38 and 39). These areas will be harvested with concentrated clumps fo BF being maintained.

Areas of BS understory >500 stems/ha are located in the S and W central portions of the block (plots 3,4,6 and 28). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/16/09
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Mitigation not completed. Block rolled over. Now in plan for harvest.	This block was missed during 2013 mitigation for the 2014/16 OP. I have included my replies to the comments provided in 2009. Please review and these can be disussed at the work permit stage.	<input checked="" type="checkbox"/>
60m RZ stream W-S and SW side.	Placed 50m RZ on stream on S side. Left the stream on W side at variable 15 to 50m buffer. Mature BS and JP along W side. These stands are prone to blow down.	<input checked="" type="checkbox"/>
60m RZ W side - S 1/2 of block as drawn.	Buffer left as drawn 15m variable. Mature BS and JP along W side. These stands are prone to blow down.	<input checked="" type="checkbox"/>
Maintain BF understory - near road eg plots 38/39.	Concentrated clumps will be maintained as stated.	<input checked="" type="checkbox"/>
Close entire length of CWC-5B-1A with slash and debris and berm.	Included on road development plan.	<input checked="" type="checkbox"/>
Harvest CWC-114 before 115.	This will apply only if both blocks not to be harvested in same year.	<input checked="" type="checkbox"/>
Ensure structure breaks LOS.	Will follow standard LOS guidelines.	<input checked="" type="checkbox"/>
Road and crossing information missing.	Information provided.	<input checked="" type="checkbox"/>
Dog leg access from Windy Hill road.	Agreed.	<input checked="" type="checkbox"/>

Clearwater Creek - CWC-115



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWC-116	Twp & Rge: t34r24w	Cut Block Size: 10.9 ha
OPERATING AREA : Clearwater Creek	Ownership: Open Crown	Mapsheets: 380575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	105	20.2	32	20%	39	425
BA		19.7	31	25%	50	543
WB		16.5	29	10%	20	214
Total HW				55%	108	1,182
WS	162	22.8	39	25%	50	541
BS	139	19.5	22	0%	1	7
JP	143	21.5	40	1%	2	22
BF	87	17.1	28	19%	38	413
Total SW				45%	90	983
Block Total:					198	2,165

Understory Stems/ha and Distribution						
WS		BS		BF		
63	Clumped	75	Clumped	400	Uniform	
Eco Land Classification			Soils Summary			
V Type			LFH(cm)	S-Type	Moisture	Surface Texture
1st	2nd	3rd	13	S10	5	Sandy Clay Loam
06	08	05	07	S10	5	Silty Sand
Eco Site						
32	52					
Cover Type: N		IBWC Cnt: 5				

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 1,123
 SOFTWOOD VOLUME (m3): 934

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Roads	15	Windy Hill road located on N side. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 87 to 131 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Alder and blue-joint grass are present in most of the block. Beaked hazel, raspberry, rose and fireweed are present in small amounts.
 This block has generally flat topography.
 Maintain a max of 2 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Maintain structure along IBWC's located in the center and W side of the block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2024	Sp	WS	1600	14000

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Reforestation	First	2038

RENEWAL COMMENTS/ISSUES:

Areas of BF understory >500 stems/ha and <6m in height are located in most of the block (Plots 5,6,8 and 10). These areas will be harvested with concentrated clumps fo BF being maintained. Three of the plots with BF understory have been removed from the block.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/16/09
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Leave only 1 access to centre of block for renewal. Close back 1/2 of road.</p> <p>LOS break along road as drawn.</p> <p>50 m buffer on Windy Hill road as drawn.</p> <p>Ensure clumps are big enough to meet LOS.</p>	<p>15 to 20 m visual on Windy Hill road. One spur access into block.</p> <p>Visual barrier on road. BF understory patches will be left to break LOS.</p> <p>15 to 20m visual barrier along road.</p> <p>OK.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWC-808	Twp & Rge: t33r24w	Cut Block Size: 79.2 ha
OPERATING AREA: Clearwater Creek	Ownership: Open Crown	Mapsheet: 370574
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA		20.0	35	2%	4	297
BA		19.2	33	1%	2	148
WB		12.8	20	0%	1	55
Total HW				3%	6	500
WS				0%	0	0
BS	84	15.9	20	70%	135	10,721
JP	91	17.0	23	27%	52	4,153
BF				0%	0	0
Total SW				97%	188	14,874
Block Total:					194	15,374

Understory Stems/ha and Distribution					
WS		BS		BF	
		374	Clumped	174	Clumped

Eco Land Classification			Soils Summary				
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
	Eco Site				06	S5	3
				09	S6	3	Silty Clay
				17	S2	2	Silty Clay Loam

Cover Type: S	IBWC Cnt: 7
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP/Quota Holder
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 475
 SOFTWOOD VOLUME (m3): 14,131

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	MFZ-30	Indian Creek located on the S and E sides. Variable MFZ to 30m buffer depending on forest health. Armillaria is present in the block. Harvest as shown on map.
2	Stream	MFZ	Located on the N side. Armillaria is present in the block. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **633** to **950** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel, rose, alder, fireweed and blue-joint grass are present in this block.
 This block has moderately undulating topography.
 In Armillaria areas harvest incidental hardwood to promote mixedwood regeneration.
 This area is infected with armillaria root rot. Block has been redesigned with information supplied from Forest Health branch.
 Maintain a maximum of 15 WDP approximately 30-70m from the block edge, and near riparian areas and/or adjacent softwood stands where possible.
 With the block being redesigned 2 of the IBWC's (plot 17 and 19) are outside the block. The IBWC's near plots 7, 24 and 27 have been added to leave patches. There is one IBWC between plots 32 and 33 which will have structure maintained along the feature.
 Very small volume of birch which will be decalred by a quota holder or left in block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: S

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2024	Sp	BS	2000	89760

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Regeneration	First	2034

RENEWAL COMMENTS/ISSUES:

ATV access required on roads for planting

Areas of BS understory >500 stems/ha and <6m in height are localized in the central portion of the block (plots 23, 24, 29 and 30). Some of the understory in these plots is >6 m and will be harvested down to unmerchantable size. The remainder will be left in patches.

Area of BF understory >500 stems/ha and <6m in height is localized in the W portion of the block (plot 33). Most of this understory is <2m. This area will be harvested with concentrated clumps of BF being maintained if possible.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/30/15
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>MFZ for diseased areas.</p> <p>Leave 30m RZ if healthy lowland BS.</p> <p>Only leave 15m RZ if healthy Jp.</p>	<p>Will leave S side as is, already at MFZ to 30m RZ unless diseased.</p> <p>Will use a variable MFZ to 30m RZ on Indian Creek.</p> <p>Will use a variable MFZ to 30m RZ on Indian Creek.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWC-810	Twp & Rge: t33r24w	Cut Block Size: 47.4 ha
OPERATING AREA : Clearwater Creek	Ownership: Open Crown	Mapsheet: 370574
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS	97	16.8	19	100%	162	7,686
JP				0%	0	0
BF				0%	0	0
Total SW				100%	162	7,686
Block Total:					162	7,686

Understory Stems/ha and Distribution					
WS		BS		BF	
17	Clumped	100	Clumped	25	Clumped

Eco Land Classification	1st			2nd			3rd		
	V Type	29	30						
	Eco Site	24							

Soils Summary			
LFH(cm)	S-Type	Moisture	Surface Texture
15	S3	2	Silty Sand

Cover Type: S	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP/Quota Holder
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3):
 SOFTWOOD VOLUME (m3): 7,301

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 379 to 569 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Armilaria root rot is present throughout this operating area. This block added to capture diseased stands in this area.
 Maintain a maximum of 9 WDP approximately 30-70m from the block edge, and near riparian areas and/or adjacent softwood stands where possible.
 Keep equipment and debris out of harvested areas located on the N and W sides of the block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: S

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2024	Sp	BS	2000	63000

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Reforestation	First	2034

RENEWAL COMMENTS/ISSUES:

Area of BS understory >500 stems/ha and <6m in height is located in the NE portion of the block (plot 15). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.
 Wet block, but will check at harvest to see if WS is acceptable in some areas due to Armillaria.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 11/16/18
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Crossing information missing.</p> <p>Add additional area to the NW of CWC-815.</p>	<p>This block will be accessed off the existing road, no new crossing will be needed.</p> <p>This block added to capture diseased stands in this area.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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Clearwater Creek - CWC-810



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWC-815	Twp & Rge: t33r24w	Cut Block Size: 87.2 ha
OPERATING AREA: Clearwater Creek	Ownership: Open Crown	Mapsheets: 370574
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	78	18.9	31	2%	6	502
BA		17.3	27	1%	2	144
WB		13.3	25	1%	2	141
Total HW				4%	9	787
WS	111	22.5	42	0%	1	97
BS	100	16.8	18	95%	224	19,536
JP	97	17.8	29	1%	2	151
BF		18.5	26	0%	0	32
Total SW				96%	227	19,816
Block Total:					236	20,603

Understory Stems/ha and Distribution					
WS		BS		BF	
18	Clumped	176	Clumped	109	Clumped

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type			
Eco Site			

LFH(cm)	S-Type	Moisture	Surface Texture
17	S5	2	Silt Loam
26	S11	5	Loam

Cover Type: S	IBWC Cnt: 4
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP/Quota Holder
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 747
 SOFTWOOD VOLUME (m3): 18,824

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on S end. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **698** to **1,047** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Rose, alder and blue-joint grass present throughout the block.
 This block has moderately undulating topography.
 Alder, rose and blue-joint grass are present in some of the block. Raspberry is present in small amounts.
 Armillaria root rot detected in stand prior to harvest. MC has completed a survey. Area has a armillaria present throughout the block and to the NW of the block. Recommen adding the area to the NW to this block.
 Maintain a maximum of 16 WDP approximately 30-70m from the block edge, and near riparian areas and/or adjacent softwood stands where possible.
 Maintain shrub and some treed structure along inblock drains located on the NE and N central portions of block.
 Very small volume of birch which will be decalred by a quota holder or left in block.
 Patches of unmerchantable BS will be left to break up block.
 Harvest this block last after CWC-808 and 810.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: S

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2024	Sp	BS	2000	98880

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Reforestation	First	2034

RENEWAL COMMENTS/ISSUES:

Areas of BS understory >500 stems/ha are located in the S central and N portions of the block (plots 4,5,13,23,24,29,31,34,38 and 40). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

Areas of BF understory >500 stems/ha and <6m in height are located along the S side of the block (Plots 6 and 11). These areas will be harvested with concentrated clumps fo BF being maintained.

Road closure to accommodate ATV access

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/30/15
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Provide PHS information for additional area to the NW of this block.

Harvest strategy to be assessed relative to aerial root rot survey results.

Access road information required.

What is the rationale for whole tree logging and pile and burn.

Crossing info required for CWC-C07.

Understory map, is it BS?

Harvest last.

Added another block which will be surveyed prior to harvest (CWC-810). West side of road has highest AR patches.

May need to re-design block boundaries after assessment has been completed and information supplied.

Existing road. Will carry over from previous plan. Will provide specific road decommissioning info on request for roads previously mitigated.

Remove these comments.

Existing crossing. Photo provided in 2005.

Majority is black spruce. Understory map provided.

Agreed.

<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>

Clearwater Creek - CWC-815



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: CWC-822	Twp & Rge: t33r24w	Cut Block Size: 44.5 ha
OPERATING AREA: Clearwater Creek	Ownership: Open Crown	Mapsheets: 370574
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS	81	17.6	16	96%	187	8,306
JP	88	17.8	21	4%	7	305
BF				0%	0	0
Total SW				100%	194	8,611
Block Total:					194	8,611

Understory Stems/ha and Distribution					
WS		BS		BF	
		130	Clumped	10	Clumped

Eco Land Classification	1st			2nd			3rd		
	V Type			Eco Site			Soils Summary		
	LFH(cm)	S-Type	Moisture	Surface Texture					
	30	33	29	09	S10	5	Silty Clay		
	43	36		10	S4	2	Sandy Loam		

Cover Type: S	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3):
 SOFTWOOD VOLUME (m3): 8,307

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on the NW and NE sides. Structure will be maintained. Harvest as shown on map.
2	River	50-100	Pine River located on the S side. Variable 50 to 100m buffer from river. Wide willow/sedge complex along river. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 356 to 533 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Pockets of blowdown throughout the block possibly due to armillaria.
 Armillaria root rot is present throughout this operating area. This block added to capture diseased stands in this area.
 Maintain a maximum of 9 WDP approximately 30-70m from the block edge, and near riparian areas and/or adjacent softwood stands where possible.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: S

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2022	Sp	BS	2000	63000

Survey Summary		
Type	Series	Year
Plantation Survival	First	2023
Reforestation	First	2032

RENEWAL COMMENTS/ISSUES:

Ensure ATV access on inblock roads, also leave some large open areas with little to no debris for helicopter landings.

Area of BS understory >500 stems/ha and <6m in height is located in the NE portion of the block (plot 11). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 11/16/18
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>No concerns.</p>	<div style="text-align: right;"><input checked="" type="checkbox"/></div>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWC-836	Twp & Rge: t33r24w	Cut Block Size: 52.0 ha
OPERATING AREA : Clearwater Creek	Ownership: Open Crown	Mapsheet: 370574
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA		22.5	44	4%	9	461
BA		22.8	31	2%	4	227
WB		18.5	27	1%	2	115
Total HW				8%	15	803
WS				0%	0	0
BS	106	17.7	21	67%	134	6,979
JP	128	21.0	27	24%	47	2,469
BF		12.5	18	1%	2	95
Total SW				92%	183	9,543
Block Total:					199	10,346

Understory Stems/ha and Distribution					
WS		BS		BF	
		258	Uniform	358	Uniform

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type	16	30	18	13	S3	2	Silt Loam
Eco Site	24						

Cover Type: S	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **Quota Holder/LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **763**
 SOFTWOOD VOLUME (m3): **9,066**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

1	Stream	30-75	Clearwater Creek located on the N side. Variable 30 to 75m buffer. Harvest as shown on map.
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **416** to **624** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain a max of 9 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Keep equipment and debris out of harvested area on the E side.

Clearwater Creek



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: S

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	2000	68400

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

Areas of BF understory >500 stems/ha and <6m in height are located in the south and west portions of the block (Plots 1, 5, 9 and 17). These areas will be harvested with concentrated clumps of BF being maintained.

Areas of BS understory >500 stems/ha are located in the Sand N portions of the block (plots 5, 19 and 21). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

Ensure ATV access and that landings are free of debris for helicopter to land.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/30/20
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Can this block be harvested on the way out?</p>	<p>It is currently planned to be harvested on the way out. It will be harvested before blocks CWC-810, 815 and 808.</p>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: CWC-854	Twp & Rge: t33r24w	Cut Block Size: 88.3 ha
OPERATING AREA : Clearwater Creek	Ownership: Open Crown	Mapsheet: 370574
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA		21.7	42	2%	3	259
BA		19.5	28	1%	1	132
WB		15.0	40	0%	0	21
Total HW				3%	5	412
WS		21.0	28	0%	1	51
BS	98	17.3	17	73%	127	11,236
JP	81	18.7	23	22%	38	3,355
BF		14.3	18	2%	3	295
Total SW				97%	169	14,937
Block Total:					174	15,349

Understory Stems/ha and Distribution					
WS		BS		BF	
76	Clumped	224	Uniform	90	Clumped

Eco Land Classification	1st			2nd			3rd		
	V Type			Eco Site			Soils Summary		
	LFH(cm)	S-Type	Moisture	Surface Texture					
	30	17	15	02	S1	2	Loamy Sand		
	13			13	S5	2	Sandy Clay Loam		

Cover Type: S	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **Quota Holder/LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **411**
 SOFTWOOD VOLUME (m3): **13,984**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	30-75	Clearwater Creek located on the NW and N sides. Variable 30 to 75m buffer. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **706** to **1,059** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Alder, rose and raspberry are present throughout the block.
 This block has very hummocky topography.
 There are patches of heavy blow down in the block. Merchantable trees will be salvaged if possible.
 In Armillaria areas harvest incidental hardwood to promote mixedwood regeneration.
 This area is infected with armillaria and was surveyed in 2007.
 Maintain a maximum of 17 WDP approximately 30-70m from the block edge, and near riparian areas and/or adjacent softwood stands where possible.

Clearwater Creek



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: S

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	2000	113400

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

Road closure to accommodate ATV access

Areas of WS understory >500 stems/ha and <6m in height are located in the central portion of the block (plots 11 and 29). Clumps of understory will be protected in patches.

Areas of BF understory >500 stems/ha and <6m in height are located in the N and W portions of the block (Plots 27 and 41). These areas will be harvested with concentrated clumps of BF being maintained.

Areas of BS understory >500 stems/ha are located in the N portion of the block (plots 39 and 40). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/30/15
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>75 to 100m variable RZ where healthy, otherwise MFZ.</p>	<p>Will leave RZ as is (30 to 75).</p>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWC-860	Twp & Rge: t33r24w	Cut Block Size: 21.2 ha
OPERATING AREA : Clearwater Creek	Ownership: Open Crown	Mapsheet: 370574
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA		23.3	46	9%	17	370
BA		23.0	42	1%	2	49
WB				0%	0	0
Total HW				11%	20	419
WS				0%	0	0
BS	97	17.3	21	75%	140	2,957
JP		21.3	28	14%	27	572
BF				0%	0	0
Total SW				89%	167	3,529
Block Total:					187	3,948

Understory Stems/ha and Distribution					
WS		BS		BF	
		33	Clumped	50	Clumped

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type	18	30	28	08	S5	2	Sandy Loam
Eco Site	24						

Cover Type: S	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 397
 SOFTWOOD VOLUME (m3): 3,353

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 169 to 254 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Areas of blowdown in the block. Some blowdown areas have been removed from the block.
 Maintain a max of 4 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Keep equipment and debris out of harvested areas on the N, E and W sides of the block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **S**

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	2000	30600

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

Leave ATV access and landings free of debris for the helicopter to land.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/30/20
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>No concerns.</p>	<div style="text-align: right;"><input checked="" type="checkbox"/></div>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWC-862	Twp & Rge: t33r24w	Cut Block Size: 32.2 ha
OPERATING AREA: Clearwater Creek	Ownership: Open Crown	Mapsheets: 370574
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA		21.6	39	21%	42	1,352
BA		19.6	31	14%	29	928
WB		18.8	33	3%	7	222
Total HW				39%	78	2,502
WS	117	23.2	42	5%	10	321
BS	108	16.5	24	30%	59	1,904
JP	105	20.0	32	26%	53	1,695
BF				0%	0	0
Total SW				61%	122	3,920
Block Total:					200	6,422

Understory Stems/ha and Distribution					
WS		BS		BF	
14	Clumped	164	Clumped	29	Clumped

Eco Land Classification	1st			2nd			3rd		
	V Type	13	15	08					
	Eco Site	35							

Soils Summary			
LFH(cm)	S-Type	Moisture	Surface Texture
06	S5	2	Clay Loam

Cover Type: M	IBWC Cnt: 1
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP/Quota Holder
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 2,297
 SOFTWOOD VOLUME (m3): 3,756

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

1	Other	MFZ	Hydro line located on W side. Structure will be maintained.
2	Lake	30	Located on the N side. Harvest as shown on map.

NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 257 to 386 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

To benefit the regeneration of planted softwood trees, both softwood and hardwood trees within the proposed cutblock boundary should be harvested, in order to facilitate planting softwood seedlings across the entire block. Leaving areas of hardwood behind with the softwood selectively harvested will result in unplanted areas that will likely become pure hardwood, reducing the area of softwood-mixedwoods.

Prickly rose, alder, raspberry and blue-joint grass are present in most of the block. Fireweed is present in small amounts.

This block has undulating topography.

Maintain a max of 6 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.

Snags mainly concentrated within the centre of the block; maintain within WTP's where safe to do so.

Snags are scattered throughout the block; maintain within WTP's where safe to do so.

Maintain structure along IBWC that runs through the center of the block towards the NW.

No in block roads within 150 m of hydro line.

Keep debris off hydro line on the W side of the block.

Clearwater Creek



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: M

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2024	Sp	BS	1800	36000
2024	Sp	WS	1800	9000

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Reforestation	First	2035

RENEWAL COMMENTS/ISSUES:

Areas of BS understory >500 stems/ha and <6m in height are localized in the NW and SE side of the block (plots 5 and 14). Some of the understory in these plots is >6 m and will be harvested down to unmerchantable size. The remainder will be left in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/31/08
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>No activity on hydro line, no roads within 200 m of hydro line. 30 m total buffer on alder run adjacent to CWC-858.</p>	<p>MFZ on hydro line, no roads within 150 m of hydro line. Agreed.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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Clearwater Creek - CWC-862



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: CWC-864	Twp & Rge: t33r24w	Cut Block Size: 46.1 ha
OPERATING AREA : Clearwater Creek	Ownership: Open Crown	Mapsheet: 370574
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA		16.5	30	2%	4	181
BA				0%	0	0
WB				0%	0	0
Total HW				2%	4	181
WS				0%	0	0
BS	103	16.7	15	94%	207	9,559
JP	87	17.9	29	4%	9	421
BF				0%	0	0
Total SW				98%	216	9,980
Block Total:					220	10,161

Understory Stems/ha and Distribution			
WS	BS	BF	
	340	Clumped	

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	29	30	28
Eco Site	36	13	

LFH(cm)	S-Type	Moisture	Surface Texture
08	S2	1	Loamy Sand
45	S12S	2	Silt Loam

Cover Type: S	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **Quota Holder/LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **172**
 SOFTWOOD VOLUME (m3): **9,481**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	MFZ	Located on the S, E and N sides. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **369** to **553** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Pockets of blowdown throughout the block possibly due to armillaria.
 Armillaria root rot is present throughout this operating area. This block added to capture diseased stands in this area.
 Maintain a maximum of 8 WDP approximately 30-70m from the block edge, and near riparian areas and/or adjacent softwood stands where possible.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **S**

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2022	Sp	BS	2000	68400

Survey Summary		
Type	Series	Year
Plantation Survival	First	2023
Reforestation	First	2032

RENEWAL COMMENTS/ISSUES:

Ensure ATV access on inblock roads, also leave some large areas open on the road with little to no debris for helicopter landings.

Areas of BS understory >500 stems/ha and <6m in height are located in the W/SW portion of the block (plots 1 & 11). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 11/16/18
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Harvest Ta to promote MWD to mitigate root rot diseases.</p>	<p>Agreed. Will need to retain some softwood snags for wildlife.</p>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: CWC-870	Twp & Rge: t33r24w	Cut Block Size: 24.7 ha
OPERATING AREA: Clearwater Creek	Ownership: Open Crown	Mapsheets: 370574
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 346
 SOFTWOOD VOLUME (m3): 4,495

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on the E side. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 197 to 296 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 This area is infected with armillaria root rot.
 Maintain a max of 4 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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Clearwater Creek - CWC-870



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: CWC-873	Twp & Rge: t33r24w	Cut Block Size: 19.0 ha
OPERATING AREA : Clearwater Creek	Ownership: Open Crown	Mapsheets: 370574
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 266
 SOFTWOOD VOLUME (m3): 3,463

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on the NW side. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 152 to 228 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 This area is infected with armillaria root rot.
 Maintain a max of 3 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: CWC-875	Twp & Rge: t33r24w	Cut Block Size: 62.2 ha
OPERATING AREA: Clearwater Creek	Ownership: Open Crown	Mapsheet: 370574
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 932
 SOFTWOOD VOLUME (m3): 12,118

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	100	Clearwater Creek located on the N side. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 498 to 747 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain a max of 13 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 This block borders the backcountry zone. The south boundary will be flagged using GPS to ensure no encroachment into the park. Boundary has been designed to follow natural features where possible.
 This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 This area is infected with armillaria root rot.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: CWC-877	Twp & Rge: t33r24w	Cut Block Size: 36.2 ha
OPERATING AREA: Clearwater Creek	Ownership: Open Crown	Mapsheet: 370574
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 517
 SOFTWOOD VOLUME (m3): 6,716

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	50	Clearwater Creek located on the NE side. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 289 to 434 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block borders the backcountry zone. The south boundary will be flagged using GPS to ensure no encroachment into the park. Boundary has been designed to follow natural features where possible.

This block has not been surveyed. The volume information is based on surveyed blocks in the area.

This area is infected with armillaria root rot.

Maintain a max of 7 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.

Clearwater Creek



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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 Fax: 204-734-3646

PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: CWC-881	Twp & Rge: t33r24w	Cut Block Size: 28.9 ha
OPERATING AREA : Clearwater Creek	Ownership: Open Crown	Mapsheets: 370574
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 405
 SOFTWOOD VOLUME (m3): 5,260

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Ephemeral Drain	MFZ	Located on the N side. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 231 to 347 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 This area is infected with armillaria root rot.
 Maintain a max of 5 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Keep hydro line located on the W side free of debris.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Clearwater Creek - CWC-881



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: CWC-882	Twp & Rge: t33r24w	Cut Block Size: 34.3 ha
OPERATING AREA: Clearwater Creek	Ownership: Open Crown	Mapsheet: 370574
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS	107	14.7	17	98%	232	7,971
JP	111	17.5	24	2%	4	126
BF				0%	0	0
Total SW				100%	236	8,097
Block Total:					236	8,097

Understory Stems/ha and Distribution					
WS		BS		BF	
		163	Clumped		

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type	29			07	S5	5	Silty Sand
Eco Site	36						

Cover Type: S	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3):
 SOFTWOOD VOLUME (m3): 7,728

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	MFZ	Located on the E side. Variable MFZ to 15m buffer. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 274 to 412 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Pockets of blow down in the central portion of block. Merchantable trees will be salvaged if possible.
 Armillaria root rot is present throughout this operating area. This block added to capture diseased stands in this area.
 Maintain a maximum of 6 WDP approximately 30-70m from the block edge, and near riparian areas and/or adjacent softwood stands where possible.

Clearwater Creek



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: S

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	2000	49680

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

Area of BS understory >500 stems/ha and <6m in height is located in the E portion of the block (plot 9). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.
 Leave ATV access, and ensure sections of the road are free of debris for the helicopter to land safely.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/18/19
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>No concerns.</p>	<div style="text-align: right;"><input checked="" type="checkbox"/></div>
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Integrated Operations by Operating Area

Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 11

Cowan East

CWE-210	12.32 Hectares		2023 Harvest
HW Allocation	1,240 m3	LP	
SW Allocation	0 m3	SPL	
CWE-212	48.67 Hectares		2023 Harvest
HW Allocation	6,749 m3	LP	
SW Allocation	825 m3	SPL	
CWE-214	3.41 Hectares		2023 Harvest
HW Allocation	349 m3	LP	
SW Allocation	0 m3	SPL	
CWE-301	39.94 Hectares		2022 Contingency
HW Allocation	5,131 m3	LP	
SW Allocation	318 m3	SPL	
CWE-800	8.02 Hectares		2022 Contingency
HW Allocation	240 m3	LP	
SW Allocation	599 m3	SPL	

Cowan East Operating Area

Cowan Bog Ecological Reserve

Cowan East (CWE)

Sclater (SLT)

Cowan West (CWW)

CWE-800

CWE-902

CWE-102

CWE-008

CWE-212

CWE-211

CWE-210

CWE-214

CWE-213






CWE-301

CWE-010






CWE-303

Legend

Proposed Crossings

-  Proposed Bridge
-  Proposed Crossing, Other
-  Proposed Crossing, Stream
-  Proposed Culvert, Other
-  Proposed Culvert, Stream

Harvest Areas

-  2022 - Harvest
-  2022 - Contingency
-  2023 - Harvest
-  2023 - Contingency
-  2024-2026 - Harvest

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.

Roads

Cowan East

CWE-2A (existing)

Additional Road Development Comments

Road Development:

This road is part of the access to CWE-210, 211, 212, 213 and CWW-004.

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.4	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with slash and debris where available.

CWE-2A-1A (existing)

Additional Road Development Comments

Road Development:

This road accesses block CWE-210, 211 and 213.

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.5	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with slash and debris where available.

CWE-2B

Additional Road Development Comments

Road Development:

This road goes through CWW-004 to access CWE-212.

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.9	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with slash and debris at selected locations in block CWW-004. Selected locations include landings and other areas where debris accumulates. Crossings CWW-C25, C26 and C27 will also be removed restricting access. Maintain ATV access for renewal surveys.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWE-210	Twp & Rge: t35r23w	Cut Block Size: 12.3 ha
OPERATING AREA : Cowan East	Ownership: Open Crown	Mapsheets: 380575
LICENCE: FML 3	Management Unit: 11	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	96	15.3	29	49%	52	637
BA		17.5	26	40%	42	520
WB		16.8	31	11%	12	148
Total HW				100%	106	1,305
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					106	1,305

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification					
	1st	2nd	3rd	Soils Summary	
V Type	05	01		LFH(cm)	S-Type
Eco Site	32	22		Moisture	Surface Texture
				09	S5
				08	S3
				2	2
					Sandy Clay Loam
					Sandy Loam

Cover Type: H IBWC Cnt: 2

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 1,240
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	15	Located on the SE side of block. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 99 to 148 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel, mountain maple and fireweed are present in the block.
 This block has hilly topography on the E side of the block. This area has been removed from the block. The remainder of the block slopes gently to the north.
 This block is on Sec 6-35-23 which is coded A1.
 There are pockets of blow down present in this block. Merchantable material will be salvaged only if feasible.
 Maintain structure along IBWC located between plots 4 and 5 in the center of the block. The other IBWC near plot 3 has been removed from the block.
 Keep equipment and debris out of old harvest areas located on the N and S sides of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **10/31/14**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Review PHS map for IBWC and protection.</p> <p>What is the flagged feature?</p>	<p>Part of block was dropped after PHS survey to mitigate for water protection.</p> <p>Will maintain structure.</p> <p>Bear baits.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWE-212	Twp & Rge: t35r23w	Cut Block Size: 48.7 ha
OPERATING AREA : Cowan East	Ownership: Open Crown	Mapsheet: 380576
LICENCE: FML 3	Management Unit: 11	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA		19.6	33	46%	76	3,697
BA	77	19.0	35	11%	19	911
WB		18.8	28	31%	51	2,497
Total HW				89%	146	7,105
WS		9.0	14	0%	1	28
BS				0%	0	0
JP		24.0	22	11%	17	840
BF				0%	0	0
Total SW				11%	18	868
Block Total:					164	7,973

Understory Stems/ha and Distribution					
WS		BS		BF	
91	Clumped			45	Clumped

Eco Land Classification	1st			2nd			3rd		
	V Type			Eco Site			Soils Summary		
	LFH(cm)	S-Type	Moisture	Surface Texture					
	04	05	15	09	S3	2	Sandy Loam		
	22	21		10	S3	2	Sandy Loam		
				10	S3	2	Sandy Loam		

Cover Type: H	IBWC Cnt: 1
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 6,749
 SOFTWOOD VOLUME (m3): 825

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **389** to **584** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel, mountain maple, rose, fireweed and blue-joint grass are present in the block.
 This block has hilly topography on the E side of the block. There are also steep slopes on the N and S sides which are the boundaries of the block.
 This block is on Sec 6 and SW7-35-23 which is coded A1.
 There are pockets of blow down present in this block. Merchantable material will be salvaged only if feasible.
 Maintain structure on small in block swale located between plots 10 and 18 on the E side of the block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

Area of WS understory >500 stems/ha and <6m in height is located in the center of the block (plot 13). Clumps of understory will be protected in patches.

Area of BF understory >500 stems/ha and <6m in height is located in the NW corner of the block (Plot 15). This area will be harvested with concentrated clumps of BF being maintained.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/31/14
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Prefer no access connection to private land on E side.</p> <p>Identify drainage feature and protection on NW/SE sides of block.</p> <p>Retain WS seed trees wind firm/wind protected.</p>	<p>Unless accessed from private land. If so accesses will not be connected.</p> <p>Harvest to top of slope.</p> <p>Agreed.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWE-214	Twp & Rge: t35r23w	Cut Block Size: 3.4 ha
OPERATING AREA : Cowan East	Ownership: Open Crown	Mapsheet: 380575
LICENCE: FML 3	Management Unit: 11	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA		20.2	31	68%	73	248
BA				0%	0	0
WB		15.7	23	32%	35	119
Total HW				100%	108	367
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					108	367

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
V Type			1st	2nd	3rd
Eco Site			LFH(cm)	S-Type	Moisture
			07	S3	1
			Surface Texture		
			Silty Sand		
Cover Type: H		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **349**
 SOFTWOOD VOLUME (m3): **0**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	15-30	Located on N side. Variable 15 to 30m buffer. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **27** to **41** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Mountain maple is present throughout the block.
 This block has hilly topography. Some areas of the block may not be harvested due to terrain.
 This block is on Sec 6-35-23 which is coded A1.
 There are pockets of blow down present in this block. Merchantable material will be salvaged only if feasible.
 Keep equipment and debris out of old harvest areas located on the SW and E sides of the block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **10/31/14**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Consider the block for leave/watershed protection/viewscape.</p>	<p>Agreed. Will harvest W half of block but leave the E portion between road and creek.</p>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: CWE-301	Twp & Rge: t35r23w	Cut Block Size: 39.9 ha
OPERATING AREA : Cowan East	Ownership: Open Crown	Mapsheet: 380576
LICENCE: FML 3	Management Unit: 11	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	61	20.3	26	75%	106	4,247
BA		20.8	28	13%	18	722
WB		18.0	22	7%	10	387
Total HW				94%	134	5,356
WS		20.3	34	3%	5	189
BS		23.0	24	1%	2	65
JP		18.5	28	1%	2	79
BF				0%	0	0
Total SW				6%	8	333
Block Total:					142	5,689

Understory Stems/ha and Distribution					
WS		BS		BF	
50	Clumped				

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	05	08	01
Eco Site			

LFH(cm)	S-Type	Moisture	Surface Texture
07	S5	2	Loamy Sand
07	S5	2	Sandy Clay Loam
06	S5	2	Clay Loam

Cover Type: H	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 5,131
 SOFTWOOD VOLUME (m3): 318

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Roads	100	Hwy 10 located on the W side. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **320** to **479** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is on SE and NE11-35-23 which is coded A/4a.
 Keep existing access to the lease quarter to the south free of debris.
 Keep debris and equipment off the Snowman Trail on the E side of the block.
 Ensure south boundary does not encroach on private land to the south.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2027

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 11/11/16
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>No concerns.</p>	<div style="border: 1px solid black; height: 100%;"></div>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: CWE-800	Twp & Rge: t35r23w	Cut Block Size: 8.0 ha
OPERATING AREA : Cowan East	Ownership: Open Crown	Mapsheet: 380576
LICENCE: FML 3	Management Unit: 11	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	53	14.9	21	25%	27	219
BA		16.0	28	3%	3	26
WB		10.0	10	1%	1	8
Total HW				29%	32	253
WS		16.5	24	44%	49	389
BS		17.5	26	9%	10	84
JP		14.8	26	16%	18	141
BF		18.5	22	2%	2	18
Total SW				71%	79	632
Block Total:					110	885

Understory Stems/ha and Distribution					
WS		BS		BF	
260	Uniform	540	Clumped		

Eco Land Classification	1st			2nd			3rd		
	V Type	14	08	30					
	Eco Site	34							

Soils Summary			
LFH(cm)	S-Type	Moisture	Surface Texture
06	S5	2	Clay Loam

Cover Type: M	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 240
 SOFTWOOD VOLUME (m3): 599

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Roads	MFZ	Road located along E side. Stucture will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **64** to **96** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Block is on SE29-35-23W which is coded A1.
 Beaked hazel, willow, prickly rose and blue-joint grass are present in the block.
 This block has relatively flat topography.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: M

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input checked="" type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	WS	1800	12800

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2037

RENEWAL COMMENTS/ISSUES:

Area of BS understory >500 stems/ha and <6m in height is located in the central portion of the block (plot 4). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

Area of WS understory >500 stems/ha and <6m in height is located in the central portion of the block (plot 2). Clumps of understory will be protected in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/17/12
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Harvest/silviculture prescription to be defined for dense understory.	High density areas of WS understory will not be harvested. High density BS understory will be harvested down to unmerchantable trees as stated in prescription.	<input checked="" type="checkbox"/>
Update softwood renewal strategy.	Computer program problem which has been rectified.	<input checked="" type="checkbox"/>
Defer harvest. Minimal blow down.	Will leave block as contingency.	<input checked="" type="checkbox"/>



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Integrated Operations by Operating Area

Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 13

Cowan West

CWW-003	59.62 Hectares		2023 Harvest
HW Allocation	6,821 m3	LP/Quota Holder	
SW Allocation	21 m3	SPL	
CWW-004	25.03 Hectares		2023 Harvest
HW Allocation	4,390 m3	LP/Quota Holder	
SW Allocation	77 m3	SPL	
CWW-852	105.36 Hectares		2023 Harvest
HW Allocation	4,128 m3	LP	
SW Allocation	5,600 m3	SPL	
CWW-853	95.48 Hectares		2022 Harvest
HW Allocation	7,041 m3	LP	
SW Allocation	8,684 m3	SPL	
CWW-856	124.56 Hectares		2022 Contingency
HW Allocation	8,386 m3	LP	
SW Allocation	6,554 m3	SPL	

Cowan West Operating Area

Cryderman's Pit (CRP)

Cowan East (CWE)

East Favel (EAF)

Cowan West (CWW)

Clearwater Creek (CWC)

CWW-018
CWW-013
CWW-014
CWW-001
CWW-C27
CWW-C26
CWW-C25
CWW-002
CWW-004
CWW-003

CWW-016
CWW-854
CWW-855
CWW-857
CWW-856
CWW-852
CWW-853
CWW-810

Proposed Crossings		Harvest Areas	
	Proposed Bridge		2022 - Harvest
	Proposed Crossing, Other		2022 - Contingency
	Proposed Crossing, Stream		2023 - Harvest
	Proposed Culvert, Other		2023 - Contingency
	Proposed Culvert, Stream		2024-2026 - Harvest

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.

Roads

Cowan West

CWW-4A

Additional Road Development Comments

This road accesses block CWW-853 and is part of the access to blocks CWW-852, 854, 855, 856 and 857.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.6	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
SPL			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A gate will be placed at the start of the road when harvest starts. This road will be required for future harvest.

CWW-4A-1A

Additional Road Development Comments

This road accesses block CWW-852.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.7	15	6	Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
SPL			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road is will be closed at selected locations in block CWW-853. There is a winter crossing which will melt restricting access.

CWW-4B

Additional Road Development Comments

This road is in block CWW-853 and is part of the access to blocks 854, 855, 856 and 857.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.2	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
SPL			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This road will remain open for future harvest.

CWW-4B-1A

Additional Road Development Comments

This road accesses block CWW-856.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.6	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
SPL	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	The first 100m of this road will be closed with debris. ATV access will be required for renewal purposes.



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: CWW-C22		Ownership: SPL	
Operating Area:	Cowan West	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5751673	UTM Easting:	379366
Stream Type:	Other Watercourse	Land Description:	SE11-34-24W
Watercourse Name:	N/A	Crossing Inspection Date:	09-October-2013
Channel Width (m):	N/A	Stream Assessment Required:	
Water Depth (m):	N/A	Stream Assessment Complete:	
Road Name:	CWW-4A		

Site Description:

This proposed crossing is located on a seasonal drain that has been blocked by beaver dams both up and downstream. The water flow was low at the time of inspection and the substrate is composed of organic material. The channel is approximately 5 m across at the point of crossing. The dams will be removed lowering the water level.

General Considerations:

SPL will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>




Temporary Crossing:	<input type="checkbox"/>
<input type="text"/>	to <input type="text"/>
Permanent Crossing:	<input checked="" type="checkbox"/>
Proposed Install Date:	<input type="text" value="01 September,2022"/>
Crossing Duration:	<input type="text" value="4"/> Years
Remove after Renewal Activities:	<input type="text"/>

Installation & Removal Notes:

If the snow and ice crossing is used, after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions.
 A minimum 18" culvert is required.

After harvest has been completed the round culvert will be removed and ther road approaches will be recontoured to a near natural slope. The area will be seeded with grass and if required erosion control matting or straw mulch will be used to further stabilize the site. This crossing will be in place for at least 3 years.

PROPOSED CROSSING CWW-C22

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: CWW-C23

Operating Area: Cowan West
UTM Northing: 5751726
Stream Type: Permanent
Watercourse Name: N/A
Channel Width (m): 1.0
Water Depth (m): 0.20
Road Name: CWW-4A

Ownership: SPL

Contingency Crossing:
UTM Easting: 379281
Land Description: SE11-34-24W
Crossing Inspection Date: 09-October-2013
Stream Assessment Required:
Stream Assessment Complete:

Site Description:

This crossing is on a permanent stream that has been flooded by beavers at some time in the past. The substrate is gravel/cobble/silt. No fish were observed at the time of inspection.

General Considerations:

SPL will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date: 01 September, 2022

Crossing Duration: 4 Years

Remove after Renewal Activities:




Installation & Removal Notes:

If the snow and ice crossing is used, after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions.

Minimum 18" culvert is required.

After harvest has been completed the round culvert will be removed and the road approaches will be recontoured to a near natural slope. The area will be seeded with grass and if required erosion control matting or straw mulch will be used to further stabilize the site. This crossing will be in place for at least 3 years.

PROPOSED CROSSING CWW-C23

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: CWW-C24		Ownership: SPL	
Operating Area:	Cowan West	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5751980	UTM Easting:	379085
Stream Type:	Permanent	Land Description:	SE11-34-24W
Watercourse Name:	N/A	Crossing Inspection Date:	09-October-2013
Channel Width (m):	1.0	Stream Assessment Required:	
Water Depth (m):	0.30	Stream Assessment Complete:	
Road Name:	CWW-4A		

Site Description:

This crossing is on a permanent stream that has been dammed by beavers. The substrate is organic/gravel/cobble. No fish were observed at the time of inspection but may be present. Dam will be removed lowering the water level for crossing.

General Considerations:

SPL will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>




Temporary Crossing:	<input type="checkbox"/>
<input type="text"/>	to <input type="text"/>
Permanent Crossing:	<input checked="" type="checkbox"/>
Proposed Install Date:	01 September, 2022
Crossing Duration:	4 Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

If the snow and ice crossing is used, after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions. A minimum 18" culvert is required.

After harvest has been completed the round culvert will be removed and the road approaches will be recontoured to a near natural slope. The area will be seeded with grass and if required erosion control matting or straw mulch will be used to further stabilize the site. This crossing will be in place for at least 3 years.

PROPOSED CROSSING CWW-C24

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: CWW-C25

Ownership: LP

Operating Area: Cowan West

Contingency Crossing:

UTM Northing: 5759826

UTM Easting: 379449

Stream Type: Other Watercourse

Land Description: SE1-35-24W

Watercourse Name: N/A

Crossing Inspection Date: 30-May-2014

Channel Width (m): 1.0

Stream Assessment Required:

Water Depth (m): 0.05

Stream Assessment Complete:

Road Name: CWE-2A-1B

Site Description:

Thicket swamp which flows during high water events. Organice substrate with no banks. Located in hardwood stand.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:

Crossing Duration: Years

Remove after Renewal Activities:

Installation & Removal Notes:

A small 18" culvert and/or corduory with the culvert may also be installed with the snow and ice to fill the channel and allow flow through the crossing.

If a snow and ice crossing is used after harvest is complete the surface of the snow and ice crossing will be cleared and a trench will be constructed to allow for flow during spring melt. If a culvert and/or corduory is used it will be removed after harvest. The crossing will melt and the area will return to near natural conditions.

After harvest has been completed the round culvert will be removed and ther road approaches will be recontoured to a near natural slope. The area will be seeded with grass and if required erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING CWW-C25



Across



Upstream



Downstream



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: CWW-C26		Ownership: LP	
Operating Area:	Cowan West	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5760011	UTM Easting:	379488
Stream Type:	Other Watercourse	Land Description:	NE1-35-24W
Watercourse Name:	N/A	Crossing Inspection Date:	30-May-2014
Channel Width (m):	0.50	Stream Assessment Required:	
Water Depth (m):	0.05	Stream Assessment Complete:	
Road Name:	CWE-2A-1B		

Site Description:

Thicket swamp which flows during high water events. Organice substrate with no banks. Located in hardwood stand.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 September,2023"/>	to <input type="text" value="01 July,2024"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>




Installation & Removal Notes:

A small 18" culvert and/or corduory with the culvert may also be installed with the snow and ice to fill the channel and allow flow through the crossing.

If a snow and ice crossing is used after harvest is complete the surface of the snow and ice crossing will be cleared and a trench will be constructed to allow for flow during spring melt. If a culvert and/or corduory is used it will be removed after harvest. The crossing will melt and the area will return to near natural conditions.

After harvest has been completed the round culvert will be removed and ther road approaches will be recontoured to a near natural slope. The area will be seeded with grass and if required erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING CWW-C26

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: CWW-C27

Ownership: LP

Operating Area: Cowan West

Contingency Crossing:

UTM Northing: 5760079

UTM Easting: 379511

Stream Type: Other Watercourse

Land Description: NE1-35-24W

Watercourse Name: N/A

Crossing Inspection Date: 30-May-2014

Channel Width (m): 0.50

Stream Assessment Required:

Water Depth (m): 0.05

Stream Assessment Complete:

Road Name: CWE-2A-1B

Site Description:

Thicket swamp which flows during high water events. Organice substrate with no banks. Located in hardwood stand.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:

01 September,2023 to 01 July,2024

Permanent Crossing:

Proposed Install Date:

Crossing Duration: Years

Remove after Renewal Activities:

Installation & Removal Notes:




A small 18" culvert and/or corduory with the culvert may also be installed with the snow and ice to fill the channel and allow flow through the crossing.

If a snow and ice crossing is used after harvest is complete the surface of the snow and ice crossing will be cleared and a trench will be constructed to allow for flow during spring melt. If a culvert and/or corduory is used it will be removed after harvest. The crossing will melt and the area will return to near natural conditions.

Minimum 18 inch culvert required.

After harvest has been completed the round culvert will be removed and ther road approaches will be recontoured to a near natural slope. The area will be seeded with grass and if required erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING CWW-C27

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWW-003	Twp & Rge: t34r24w	Cut Block Size: 59.6 ha
OPERATING AREA : Cowan West	Ownership: Open Crown	Mapsheet: 380575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	82	19.4	33	43%	52	3,085
BA	74	17.5	27	24%	29	1,700
WB		16.2	28	33%	39	2,321
Total HW				100%	119	7,106
WS		10.5	22	0%	0	22
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	22
Block Total:					120	7,128

Understory Stems/ha and Distribution					
WS		BS		BF	
100	Clumped			106	Clumped

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	05	04	
Eco Site	32	21	

LFH(cm)	S-Type	Moisture	Surface Texture
03	S5	2	Silty Sand
07	S3	2	Silty Sand

Cover Type: H	IBWC Cnt: 3
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP/Quota Holder
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 6,821
 SOFTWOOD VOLUME (m3): 21

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	75-100	Cowan Creek located on S side. Variable 75 to 100m buffer. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 477 to 715 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Mountain maple, rose, raspberry, fireweed, thistle and blue-joint grass are present in this block.
 This block has very hilly topography. Portions of this block may not be harvested due to the terrain.
 There are pockets of blow down present in this block. Merchantable material will be salvaged only if feasible.
 Maintain shrub and treed structure around open grassy clearings and small wetlands located on W half of the block.
 Maintain shrub and treed structure along inblock swale located on E side of block pfs plot 23, 22, 21
 Maintain all WS as seed trees wind firm/wind protected.
 Where possible the Claude Adams road will be used to pile wood.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

Area of WS understory >500 stems/ha and <6m in height is located in the W end of the block (plot 33). Clumps of understory will be protected in patches.

Area of BF understory >500 stems/ha and <6m in height is located in the center corner of the block (Plot 27). This area will be harvested with concentrated clumps of BF being maintained.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/31/14
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>No in block road development unless spur access across contour.</p> <p>What about high birch volume with conversion to siding.</p> <p>Retain all WS as seed trees wind firm/wind protected.</p>	<p>Some of this block may not be harvested due to terrain. Any roads will be spurs from the main road.</p> <p>May not be harvested unless declared by quota holder due to high level of birch.</p> <p>Agreed.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWW-004	Twp & Rge: t35r24w	Cut Block Size: 25.0 ha
OPERATING AREA: Cowan West	Ownership: Open Crown	Mapsheets: 370575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	80	20.1	28	65%	123	3,075
BA	64	14.6	23	22%	41	1,026
WB		15.6	28	11%	21	521
Total HW				98%	185	4,622
WS		12.8	23	2%	3	81
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				2%	3	81
Block Total:					188	4,703

Understory Stems/ha and Distribution					
WS		BS		BF	
100	Clumped			60	Clumped

Eco Land Classification	1st			2nd			3rd		
	V Type	05	01						
	Eco Site	22							

Soils Summary			
LFH(cm)	S-Type	Moisture	Surface Texture
07	S3	1	Silty Sand

Cover Type: H	IBWC Cnt: 1
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP/Quota Holder
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 4,390
 SOFTWOOD VOLUME (m3): 77

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 200 to 300 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Approximately 3.1 ha's has been added to this block on the north end to capture potential trapped wood.
 Mountain maple, alder and raspberry are present in this block.
 This block has relatively flat topography.
 There are pockets of blow down present in this block. Merchantable material will be salvaged only if feasible.
 Maintain structure along IBWC located near plot 6. This feature is crossed in the block with CWW-C25.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/31/14
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

No concerns.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CWW-852	Twp & Rge: t34r24w	Cut Block Size: 105.4 ha
OPERATING AREA: Cowan West	Ownership: Open Crown	Mapsheets: 370575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	94	22.5	40	31%	30	3,147
BA	92	17.3	33	7%	7	764
WB		13.9	26	4%	4	434
Total HW				42%	41	4,345
WS	97	20.5	40	6%	6	653
BS	89	16.7	19	42%	40	4,260
JP	82	19.8	25	10%	9	982
BF				0%	0	0
Total SW				58%	56	5,895
Block Total:					97	10,240

Understory Stems/ha and Distribution					
WS		BS		BF	
61	Clumped	48	Clumped		

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type	08	13	18	06	S3	2	Loam
Eco Site	23						

Cover Type: M	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 4,128
 SOFTWOOD VOLUME (m3): 5,600

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

1	Wetland	MFZ-30	Located along E side. Variable MFZ to 30m buffer. Harvest as shown on map.
2	Wetland	MFZ	Located on NW corner. Structure will be maintained. Harvest as shown on map.
3	Wetland	15-50	Located on S side. Variable 15 to 50m buffer. Harvest as shown on map.

NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 843 to 1,264 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has been edited due to increased area of timber loss from flooding, blowdown and other causes. Block may be close to being a salvage harvest due to timber loss.

This block has some blowdown and areas of dead standing trees. Much of the block has very low volumes due to the extensive areas with scattered trees and grass. This block may not have sufficient volume per hectare for harvest.

Maintain a maximum of 20 WDP approximately 30-70m from the block edge, and near riparian areas and/or adjacent softwood stands where possible.

There is an IBWC shown on the map which was not found during the survey. The water actually flows to the south along the W side of the block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: M

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2024	Sp	BS	1800	102240
2024	Sp	WS	1800	25560

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Reforestation	First	2034

RENEWAL COMMENTS/ISSUES:

Area of WS understory >500 stems/ha and <6m in height is located in the NE portion of the block (plot 41). Clumps of understory will be protected in patches.

Planting complete block, leave inblock roads with ATV access. The occasional large opening on the road, no debris, for potential helicopter landings.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 11/16/18
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Consider herbicide program to be integrated into renewal for seedling survival.</p> <p>Is there a crossing between CWW-852 and 853?</p>	<p>The block will be managed for mixed wood so if softwood doesn't take there will still be hardwood regen.</p> <p>Yes SPL will provide crossing information.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: CWW-853	Twp & Rge: t34r24w	Cut Block Size: 95.5 ha
OPERATING AREA: Cowan West	Ownership: Open Crown	Mapsheet: 370575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	100	23.6	38	34%	60	5,695
BA	74	19.7	35	8%	13	1,245
WB		16.6	27	3%	5	471
Total HW				45%	78	7,411
WS	107	19.2	40	10%	18	1,726
BS	104	16.9	21	20%	36	3,393
JP	94	19.5	27	24%	42	4,022
BF				0%	0	0
Total SW				55%	96	9,141
Block Total:					173	16,552

Understory Stems/ha and Distribution					
WS		BS		BF	
86	Clumped	27	Clumped	27	Clumped

Eco Land Classification	1st			2nd			3rd		
	V Type			Eco Site					
	15	05	13	24	42	33			

Soils Summary			
LFH(cm)	S-Type	Moisture	Surface Texture
07	S3	2	Sandy Loam
07	S3	2	Loamy Sand
05	S5	2	Silty Sand
10	S8	5	Silty Sand

Cover Type: M	IBWC Cnt: 2
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 7,041
 SOFTWOOD VOLUME (m3): 8,684

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3
Wetland	MFZ-30	Located on NE corner. Variable MFZ to 30m buffer. Harvest as shown on map.
Wetland	MFZ-30	Located along W side. Variable MFZ to 30m buffer. Harvest as shown on map.
Stream	30	Located along S/SE side. Treed or top of down slope whichever is greater. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 764 to 1,146 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has been edited due to increased area of timber loss from flooding, blowdown and other causes. Block may be close to being a salvage harvest due to timber loss.

Beaked hazel, raspberry, rose, alder, fireweed and blue-joint grass are present in the block.

This block has moderately undulating topography.

There are patches of blow down throughout the block. Merchantable material will be salvaged where possible.

Maintain structure along IBWC located near plot 10. Flood at plot 17 has been removed from the block. There are also a number of alder swales which will have structure maintained (near plots 6,12,13,14,15,33 and 38).



RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: M

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Year	Action	Area (ha)	Alternate

Year	Season	Species	Density	Total
2023	Sp	BS	1800	54720
2023	Sp	WS	1800	49320

Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

ATV access as per MFSRC Specifications

Area of WS understory >500 stems/ha and <6m in height is located in the N portion of the block (plot 48). Clumps of understory will be protected in patches.

Area of BF understory >500 stems/ha and <6m in height is located in the NW portion of the block (Plot 45). This area will be harvested with concentrated clumps of BF being maintained.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **10/31/14**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Harvest last in sequence.</p> <p>Renewal access to be mitigated with MFRSRC to satisfaction of officer. 30m RZ on S/SE side of block.</p>	<p>Significant amount of blow down in block. Retention around these patches should leave sufficient LOS. Will be winter harvest and need good closure between seasons. Agreed.</p> <p>30m treed or top of slope whichever is greater.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: CWW-856	Twp & Rge: t34r24w	Cut Block Size: 124.6 ha
OPERATING AREA: Cowan West	Ownership: Open Crown	Mapsheet: 380575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	78	21.1	34	38%	48	5,958
BA		19.0	36	7%	9	1,178
WB		16.0	23	11%	14	1,692
Total HW				56%	71	8,828
WS	107	18.7	35	7%	9	1,132
BS	95	16.6	24	17%	22	2,744
JP	87	19.7	26	17%	22	2,750
BF		16.8	33	2%	2	274
Total SW				44%	55	6,900
Block Total:					126	15,728

Understory Stems/ha and Distribution					
WS		BS		BF	
39	Clumped	39	Clumped	29	Clumped

Eco Land Classification	1st			2nd			3rd		
	V Type			Eco Site			Soils Summary		
	LFH(cm)	S-Type	Moisture	Surface Texture					
	17	08	04	06	S5	2	Sandy Loam		
	35			06	S5		Sand		

Cover Type: N	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 8,386
 SOFTWOOD VOLUME (m3): 6,554

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3
Wetland	MFZ-15	Located on SW side. Variable MFZ to 15m buffer. Harvest as shown on map.
Stream	30-50	Located on the S side. Variable 30 to 50m buffer. Harvest as shown on map.
Stream	30-100	Located on N side. Variable 30 to 100m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 996 to 1,495 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has been edited due to increased area of timber loss from flooding, blowdown and other causes. Block may be close to being a salvage harvest due to timber loss.
 Western gall rust present in the JP.
 Block has pockets of dead trees. Some plots had very low volumes.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	1600	37440
2023	Sp	WS	1600	18720

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

Planting North West of block. Leave ATV access and some open areas on the road for helicopter landings.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 9/21/17
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Consider cutting only W side of road, cutting 854 and 855, then cut E side. What are crossing details between 853 and 856?</p>	<p>Is an option. Could harvest ROW when harvesting 853. Not planned yet. They will likely be snow and ice.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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Integrated Operations by Operating Area

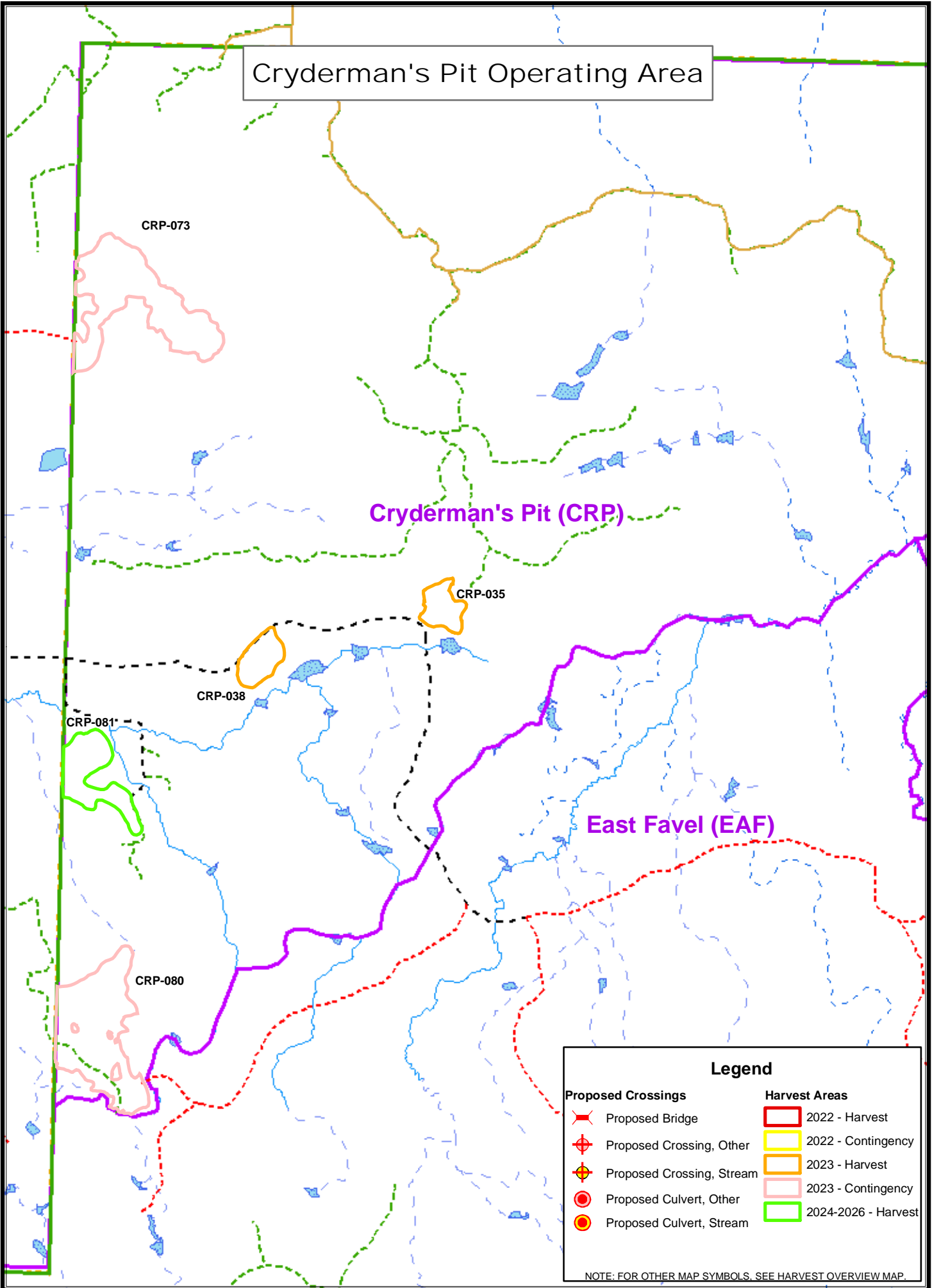
Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 13

Crydermans Pit

CRP-035	9.78 Hectares		2023 Harvest
HW Allocation	1,018 m3	LP	
SW Allocation	82 m3	SPL	
CRP-038	10.87 Hectares		2023 Harvest
HW Allocation	2,232 m3	LP	
SW Allocation	90 m3	SPL	
CRP-073	67.13 Hectares		2023 Contingency
HW Allocation	10,050 m3	LP	
SW Allocation	0 m3	SPL	
CRP-080	54.12 Hectares		2023 Contingency
HW Allocation	7,847 m3	LP	
SW Allocation	1,353 m3	SPL	

Cryderman's Pit Operating Area



NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.

Roads

Cryderman's Pit

CRP-5A & 5B (existing)

Additional Road Development Comments

These roads access block CRP-038 and are part of the access to blocks CRP-035 and 075. They are also part of the new access to blocks EAF-050, 055, 056, 057, 059 and 844.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
3.8	15	6	Frozen	50

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP/SPL			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Road CRP-5A is an existing RM right of way and will remain open. Road CRP-5B will be required for future harvest and will remain open. These are also winter roads which will melt restricting access. The crossings will also melt restricting access.

CRP-5C & 5D (existing)

Additional Road Development Comments

These roads access blocks CRP-035 and CRP-075 and are part of the main access to blocks EAF-050, 055 to 057, 059 and 844.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
2.8	15	6	Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This is a winter road and crossings CRP-C21 and C22 will melt restricting access.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CRP-035	Twp & Rge: t35r25w	Cut Block Size: 9.8 ha
OPERATING AREA: Crydermans Pit	Ownership: Open Crown	Mapsheets: 360576
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	83	20.8	31	81%	96	937
BA				0%	0	0
WB		14.0	20	12%	14	134
Total HW				93%	110	1,071
WS	57	13.7	21	7%	9	86
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				7%	9	86
Block Total:					118	1,157

Understory Stems/ha and Distribution					
WS		BS		BF	
60	Uniform				

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type	05	08		13	S6	2	Sandy Clay Loam
Eco Site	33						

Cover Type: H	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 1,018
 SOFTWOOD VOLUME (m3): 82

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located along S side. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 78 to 117 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel and fireweed is present throughout the block. Prickly rose and blue-joint grass is present in small amounts.

This block has relatively flat topography.

One plot (3), on the W side, has WS understory. The understory is all > 6m in height and will be harvested.

This block is in an area of blow down from the June 2012 wind storm. The block has not been surveyed. Due to the amount of debris the block will not be flagged prior to harvest. All topping and limbing will be done at the landing. Debris will be piled and burnt, chipped or spread on the roads and landings.

LP will not be able to use the blow down in this block unless it is from standing live trees. This block may be salvaged by a quota holder/contractor for hog fuel or firewood.

Maintain shrub and some treed structure around low wet areas located in the centre of the block.

Keep debris off designated route A on the W and NW sides of block.

Harvest this block after the EAF blocks have been harvested.

Keep equipment and debris out of harvested area on the E side.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/19/07
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>LOS S side to CRP-036. Drop area SW of road as long term corridor.</p> <p>Close entire length of CRP-1H from CRP-1G to CRP-C21. Stock pile debris</p> <p>Harvest this block after EAF blocks.</p>	<p>Will add more buffer to to N end of CRP-036 for corridor.</p> <p>OK. Will add comment to road prescription.</p> <p>Will harvest after EAF blocks.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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Crydermans Pit - CRP-035



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: CRP-038	Twp & Rge: t35r25w	Cut Block Size: 10.9 ha
OPERATING AREA : Crydermans Pit	Ownership: Open Crown	Mapsheet: 360576
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	106	19.9	27	58%	130	1,418
BA		20.0	32	4%	9	94
WB		15.7	18	34%	77	838
Total HW				96%	216	2,350
WS		16.8	31	4%	9	95
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				4%	9	95
Block Total:					225	2,445

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st			LFH(cm)		
2nd			S-Type		
3rd			Moisture		
V Type			Surface Texture		
Eco Site					
Cover Type: H		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 2,232
 SOFTWOOD VOLUME (m3): 90

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on S side. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 87 to 130 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel is present throughout the block.
 This block has relatively flat topography.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2029

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **10/17/08**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

General concern about access.

Discussed in general comments. See block CRP-032.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: CRP-073	Twp & Rge: t35r25w	Cut Block Size: 67.1 ha
OPERATING AREA: Crydermans Pit	Ownership: Open Crown	Mapsheets: 360576
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 10,050
 SOFTWOOD VOLUME (m3): 0

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 537 to 806 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 This block is in the area affected by the blow down event from 2012.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: CRP-080	Twp & Rge: t35r25w	Cut Block Size: 54.1 ha
OPERATING AREA: Crydermans Pit	Ownership: Open Crown	Mapsheets: 360576
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 7,847
 SOFTWOOD VOLUME (m3): 1,353

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	MFZ-50	Stream/wetland complex located on the S and SE side. Variable MFZ to 50m buffer. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 433 to 649 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2029

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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Integrated Operations by Operating Area

Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML
 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 13

Drifting River

DFR-010	101.96 Hectares		2023 Contingency
HW Allocation	14,807 m3	LP	
SW Allocation	2,535 m3	SPL	
DFR-011	12.44 Hectares		2023 Contingency
HW Allocation	2,147 m3	LP	
SW Allocation	380 m3	SPL	
DFR-013	23.90 Hectares		2022 Contingency
HW Allocation	2,608 m3	LP	
SW Allocation	481 m3	SPL	
DFR-014	78.19 Hectares		2022 Contingency
HW Allocation	9,755 m3	LP	
SW Allocation	2,007 m3	SPL	
DFR-015	6.36 Hectares		2022 Contingency
HW Allocation	1,439 m3	LP	
SW Allocation	97 m3	SPL	
DFR-016	15.52 Hectares		2022 Contingency
HW Allocation	1,284 m3	LP	
SW Allocation	904 m3	SPL	
DFR-017	29.32 Hectares		2022 Contingency
HW Allocation	5,120 m3	LP	
SW Allocation	115 m3	SPL	
DFR-019	5.92 Hectares		2023 Contingency
HW Allocation	958 m3	LP	
SW Allocation	164 m3	SPL	
DFR-021	12.13 Hectares		2023 Contingency
HW Allocation	2,275 m3	LP	
SW Allocation	389 m3	SPL	
DFR-022	13.43 Hectares		2023 Contingency
HW Allocation	2,426 m3	LP	
SW Allocation	415 m3	SPL	
DFR-023	16.50 Hectares		2023 Harvest
HW Allocation	2,833 m3	LP	
SW Allocation	13 m3	SPL	
DFR-024	9.07 Hectares		2023 Harvest
HW Allocation	1,300 m3	LP	
SW Allocation	478 m3	SPL	



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Integrated Operations by Operating Area

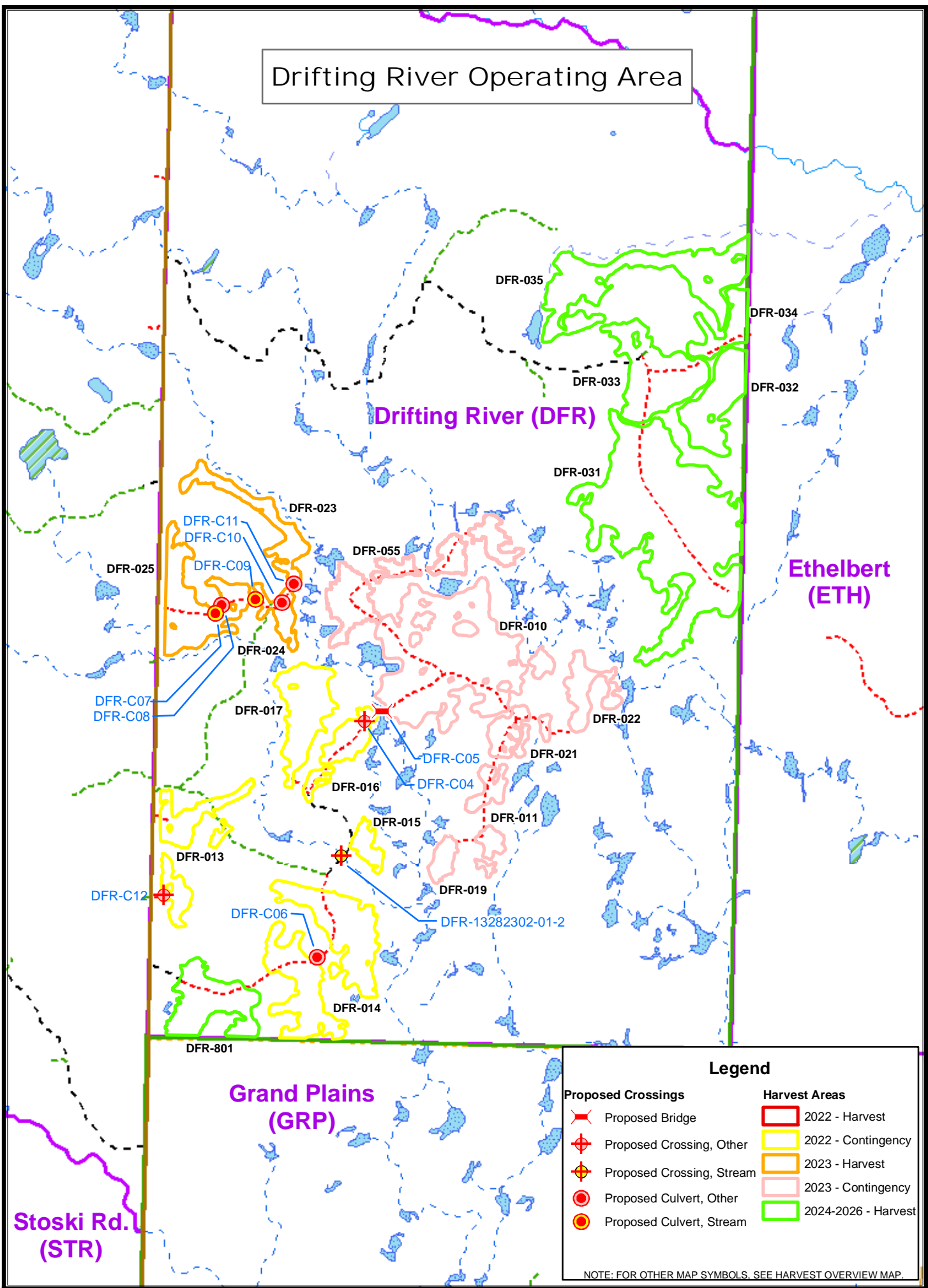
Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 13

Drifting River

DFR-025	36.97 Hectares		2023 Harvest
HW Allocation	4,279 m3	LP	
SW Allocation	572 m3	SPL	
DFR-055	36.48 Hectares		2023 Contingency
HW Allocation	4,925 m3	LP	
SW Allocation	1,215 m3	SPL	

Drifting River Operating Area



Ethelbert (ETH)

Grand Plains (GRP)

Stoski Rd. (STR)

Legend

- | Proposed Crossings | | Harvest Areas | |
|--------------------|---------------------------|---------------|---------------------|
| | Proposed Bridge | | 2022 - Harvest |
| | Proposed Crossing, Other | | 2022 - Contingency |
| | Proposed Crossing, Stream | | 2023 - Harvest |
| | Proposed Culvert, Other | | 2023 - Contingency |
| | Proposed Culvert, Stream | | 2024-2026 - Harvest |

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.

Roads

Drifting River

DFR-3A (existing)

Additional Road Development Comments

Road Development:

This road accesses block DFR-801 and is part of the access to DFR-014 to 017.. This road was originally built in 2006 by a quota holder. The quota has been sold and LP will now finish harvesting the block.

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.3	15	6	Dry/Frozen	5

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A gate will be placed at the start of the road. This road will be required for future harvest. It will be closed with debris after harvest is complete in this area.

DFR-3B

Additional Road Development Comments

Road Development:

This road accesses block DFR-014 and is part of the access to DFR-015, 016 and 017. Some of this road goes through block DFR-801.

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.8	20	8	Dry/Frozen	3

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be required for future harvest. Slash and debris will be placed at the end of the road as it enters DFR-014.

DFR-3C

Additional Road Development Comments

Road Development:

This road is part of the access to blocks DFR-015, 016 and 017. Most of this road is in block DFR-014. It goes up to the old access road DFR-1D which was built in 1997.

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.2	20	8	Dry/Frozen	3

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will remain open for future harvest. Debris will be piled along the road in block DFR-014 for road closure after harvest is complete. Debris will also be placed at the start of the block after harvest the first year to restrict access between harvest seasons.

DFR-3D (existing)

Additional Road Development Comments

This road accesses block DFR-015 and is part of the access to blocks DFR-016 and 017. This road was originally built in 1997.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.3	6	15	Frozen	3

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will remain open for future harvest. Crossing DFR-13282302-01-2 will melt restricting access.

DFR-3E (existing)

Additional Road Development Comments

This road accesses block DFR-016 and is part of the access to block DFR-017. This road was originally built in 1997.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.7	6	15	Frozen	3

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This road will remain open for future harvest.

DFR-3E-1A

Additional Road Development Comments

This road accesses block DFR-017.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.2	6	15	Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with debris for the first 100m.

DFR-3F

Additional Road Development Comments

This road goes through block DFR-016 and accesses block DFR-010. It is also part of the access to blocks DFR-011, 019, 021 and 022.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.0	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed with debris at selected locations in block DFR-016. Selected locations include landings and other areas where debris accumulates. The crossings will also be removed restricting access.

DFR-3G to 3I

Additional Road Development Comments

These roads access blocks DFR-011, 019 and 021 and are part of the access to block DFR-022.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
2.6	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed with debris at selected locations in blocks DFR-010, 011, 019 and 021. Selected locations include landings and other areas where debris accumulates. This is a winter road which will melt also restricting access.

DFR-3G-1A

Additional Road Development Comments

This road accesses block DFR-022.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.5	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed with debris at selected locations in block DFR-021. Selected locations include landings and other areas where debris accumulates. This is a winter road which will melt also restricting access.

DFR-5A

Additional Road Development Comments

This road accesses the south part of block DFR-013. The block is now flooded in the center and cannot be accessed from one road.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.1	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will have a berm established and will be closed with debris.

DFR-6A

Additional Road Development Comments

Road Development:

This road accesses the north part of block DFR-013. The block is now flooded in the center and cannot be accessed from one road.

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.1	8	20	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will have a berm established and will be closed with debris.

DFR-7A

Additional Road Development Comments

Road Development:

This road accesses block DFR-025 and is part of the access to blocks DFR-023 and 024.

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.9	8	20	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed with debris. A berm will be placed at the start of the road after harvest and renewal are complete. ATV access will be required for renewal and survey purposes. A gate will be placed at the start of the road during the active harvest period.

DFR-7B

Additional Road Development Comments

Road Development:

This road accesses block DFR-024 and is part of the access to block DFR-025.

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.8	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Slash and Debris	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed with debris after harvest and renewal at selected locations in block DFR-025. Selected locations include landings and other areas where debris accumulates. The crossings will also be removed. ATV access will be required for renewal and survey purposes.

DFR-7C

Additional Road Development Comments

This road accesses block DFR-023.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.5	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Slash and Debris	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed with debris after harvest and renewal at selected locations in block DFR-024. Selected locations include landings and other areas where debris accumulates. The crossings will also be removed. ATV access will be required for renewal and survey purposes.



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: DFR-13282302-01-2		Ownership: LP	
Operating Area:	Drifting River	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5693036	UTM Easting:	383335
Stream Type:	Seasonal	Land Description:	NE-6-28-23-W
Watercourse Name:	Tributary of Drifting River	Crossing Inspection Date:	25-April-2005
Channel Width (m):	N/A	Stream Assessment Required:	
Water Depth (m):	N/A	Stream Assessment Complete:	
Road Name:	DFR-1D		

Site Description:

This proposed crossing is located on a large beaver flood which at the time of inspection had drained out in the spring. The substrate is composed of clay and organic material. Small forage fish were present within the pools remaining within the channel.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:




	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 December,2022"/>	to <input type="text" value="31 March,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

After harvest, the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice will melt and the site will return to near natural conditions.

PROPOSED CROSSING DFR 13282302-01-2

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: DFR-C04		Ownership: LP	
Operating Area:	Drifting River	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5694074	UTM Easting:	383614
Stream Type:	Other Watercourse	Land Description:	NW8-28-23W
Watercourse Name:	N/A	Crossing Inspection Date:	21-May-2007
Channel Width (m):	N/A	Stream Assessment Required:	
Water Depth (m):	N/A	Stream Assessment Complete:	
Road Name:	DFR-1F		

Site Description:

This proposed crossing is located on an alder swale within a mixedwood stand. The channel substrate is composed of organic material and has a low flow. A beaver flood is located downstream from crossing and will not be disturbed by installation activities.

General Considerations:

The proposed snow and ice crossing is considered to be a low risk activity in which case LP will follow DFO Operational Statement for Ice Bridges.

Crossing Structure:

Crossing Lifespan:




	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 December,2023"/>	to <input type="text" value="31 March,2024"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

Once harvest is completed, the surface of the snow and ice crossing will be cleaned off and a trench will be constructed in order to allow for unobstructed flows during the spring melt. If required, erosion control measures will be applied (e.g straw bales) along the road approaches to temporarily prevent sediment from entering the watercourse.

PROPOSED CROSSING DFR-C04

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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 Fax: 204-734-3646

WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: DFR-C05		Ownership: LP	
Operating Area:	Drifting River	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5694164	UTM Easting:	383760
Stream Type:	Permanent	Land Description:	NW8-28-23W
Watercourse Name:	Drifting River/Stony Creek	Crossing Inspection Date:	21-May-2007
Channel Width (m):	2.0	Stream Assessment Required:	
Water Depth (m):	.30	Stream Assessment Complete:	
Road Name:	DFR-1F		

Site Description:

This proposed crossing is located on a permanent stream flowing through a sedge meadow. The channel is composed of rock, cobble, gravel and sand. A detailed stream assessment was conducted upstream from the proposed crossing location. Refer to the stream assessment summary table for more details.

General Considerations:

This crossing installation is considered a low risk activity due to the procedures involved in installing the bridge and the erosion and sediment control measures that will be applied during installation. LP will follow the DFO Operational Statement for Clear Span Bridges.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>




Temporary Crossing:	<input type="checkbox"/>
<input type="text"/>	to <input type="text"/>
Permanent Crossing:	<input checked="" type="checkbox"/>
Proposed Install Date:	<input type="text" value="01 December,2023"/>
Crossing Duration:	<input type="text" value="2"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

A minimum 30 foot bridge span is required.

After harvest is completed, the portable bridge will be removed and any necessary recontouring of road approaches will be completed. The area will be seeded and if required, further erosion and sediment control measures will be implemented in order to prevent any materials or sediment from entering the stream channel.

PROPOSED CROSSING DFR-C05

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: DFR-C06		Ownership: LP	
Operating Area:	Drifting River	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5692093	UTM Easting:	383216
Stream Type:	Other Watercourse	Land Description:	SE6-28-23W
Watercourse Name:	N/A	Crossing Inspection Date:	06-May-2008
Channel Width (m):	N/A	Stream Assessment Required:	
Water Depth (m):	N/A	Stream Assessment Complete:	
Road Name:	DFR-3C		

Site Description:

This proposed crossing is located on a small stream which has been dammed by beavers. Several dams are located upstream and downstream from point of crossing which has created large floods within the area. Two beaver dams will be removed to lower the water depth. Both beaver dams less than 1 m in height. This proposed crossing will be in place for approximately 5 years.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date: 01 September, 2022

Crossing Duration: 4 Years




Remove after Renewal Activities:

Installation & Removal Notes:

Minimum 18 inch culvert is required.

Culvert will be removed after harvest and renewal are completed in approximately 3 to 5 years. The road approaches will be recontoured to a near natural condition. The road approaches will be seeded and if required erosion control matting or straw mulch will be used to promote seed germination.

PROPOSED CROSSING DFR-C06

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: DFR-C07		Ownership: LP	
Operating Area:	Drifting River	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5694980	UTM Easting:	382361
Stream Type:	Seasonal	Land Description:	SW18-28-23
Watercourse Name:	N/A	Crossing Inspection Date:	29-May-2009
Channel Width (m):	1.0	Stream Assessment Required:	
Water Depth (m):	.1	Stream Assessment Complete:	
Road Name:	DFR-7B		

Site Description:

This crossing is a small seasonal stream draining a large flood upstream. It is located in a hardwood stand. the substrate is rock and clay. The banks are 50cm at the crossing and are highly variable up and downstream from the crossing.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>




Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 September,2023"/>	to <input type="text" value="01 September,2024"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

If a snow/ice crossing is used after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions. Minimum 18 inch culvert required.

After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING DFR-C07

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: DFR-C08		Ownership: LP	
Operating Area:	Drifting River	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5695047	UTM Easting:	382409
Stream Type:	Other Watercourse	Land Description:	SW18-28-23
Watercourse Name:	N/A	Crossing Inspection Date:	29-May-2009
Channel Width (m):	.4	Stream Assessment Required:	
Water Depth (m):	.1	Stream Assessment Complete:	
Road Name:	DFR-7B		

Site Description:

This crossing is a small overflow drain from the same flood the crossing on DFR-C07 drains. Crossing is in a hardwood stand. The substrate is organic with no banks.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>




Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 September,2023"/>	to <input type="text" value="01 September,2024"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

If a snow/ice crossing is used after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions. Minimum 12 inch culvert required.

After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING DFR-C08

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: DFR-C09		Ownership: LP	
Operating Area:	Drifting River	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5695095	UTM Easting:	382694
Stream Type:	Seasonal	Land Description:	SW18-28-23
Watercourse Name:	N/A	Crossing Inspection Date:	29-May-2009
Channel Width (m):	N/A	Stream Assessment Required:	
Water Depth (m):	N/A	Stream Assessment Complete:	
Road Name:	DFR-7C		

Site Description:

This crossing is a flooded drain in a hardwood stand. The substrate is organic/clay. The downstream dam will be removed to lower water level at the crossing.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 September,2023"/>	to <input type="text" value="01 September,2024"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

If a snow/ice crossing is used after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions. Minimum 18 inch culvert required.

After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING DFR-C09



Across



Upstream



Downstream



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: DFR-C10		Ownership: LP	
Operating Area:	Drifting River	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5695069	UTM Easting:	382920
Stream Type:	Other Watercourse	Land Description:	SE18-28-23
Watercourse Name:	N/A	Crossing Inspection Date:	29-May-2009
Channel Width (m):	.5	Stream Assessment Required:	
Water Depth (m):	.1	Stream Assessment Complete:	
Road Name:	DFR-7C		

Site Description:

This crossing is a small drain/thicket swamp in a hardwood stand. The substrate is clay/organic. There are no banks on this feature.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>




Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 September,2023"/>	to <input type="text" value="01 September,2024"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

If a snow/ice crossing is used after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions. Minimum 12 inch culvert is required.

After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING DFR-C10

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: DFR-C11		Ownership: LP	
Operating Area:	Drifting River	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5695227	UTM Easting:	383019
Stream Type:	Other Watercourse	Land Description:	SE18-28-23
Watercourse Name:	N/A	Crossing Inspection Date:	29-May-2009
Channel Width (m):	.4	Stream Assessment Required:	
Water Depth (m):	.05	Stream Assessment Complete:	
Road Name:	DFR-7C		

Site Description:

This crossing is a small drain/thicket swamp in a hardwood stand. The substrate is clay/organic. There are no banks on this feature.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>




Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 September,2023"/>	to <input type="text" value="01 September,2024"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

If a snow/ice crossing is used after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions. Minimum 12 inch culvert is required.

After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING DFR-C11

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: **DFR-C12**

Ownership: **LP**

Operating Area: Drifting River
UTM Northing: 5692614
Stream Type: Other Watercourse
Watercourse Name: N/A
Channel Width (m): 1
Water Depth (m): .8
Road Name: DFR-5A

Contingency Crossing:
UTM Easting: 381923
Land Description: NW-6-28-23
Crossing Inspection Date: 28-June-2015
Stream Assessment Required:
Stream Assessment Complete:

Site Description:

The proposed crossing is in a seasonal stream located in a mixedwood stand. The substrate is organic/clay.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:

Crossing Duration: Years

Remove after Renewal Activities:




Installation & Removal Notes:

If a snow/ice crossing is used after harvest is complete the surface of the snow and ice crossing will be cleared and a trench will be constructed to allow for flow during spring melt. If a culvert and/or corduroy is used it will be removed after harvest. The crossing will melt and the area will return to near natural conditions.

A minimum 12 inch culvert is required.

If a culvert is used after harvest has been completed the round culvert will be removed and the road approaches will be recontoured to a near natural slope. The area will be seeded with grass and if required erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING DFR-C12

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: DFR-010	Twp & Rge: t28r23w	Cut Block Size: 102.0 ha
OPERATING AREA: Drifting River	Ownership: Open Crown	Mapsheet: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
-------------	--------------------

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **14,807**
 SOFTWOOD VOLUME (m3): **2,535**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on all sides of block. Floods/wetlands are expanding. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **816** to **1,224** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The stand/volume information provided is from similar blocks in this operating area. The average volume is 138m3/ha hardwood and 24m3/ha softwood.

Drifting River



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2029

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: DFR-011	Twp & Rge: t28r23w	Cut Block Size: 12.4 ha
OPERATING AREA: Drifting River	Ownership: Open Crown	Mapsheets: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **2,147**
 SOFTWOOD VOLUME (m3): **380**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on all sides of block. Floods/wetlands are expanding. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **100** to **149** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The stand/volume information provided is from similar blocks in this operating area. The average volume is 138m3/ha hardwood and 24m3/ha softwood.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2029

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: DFR-013	Twp & Rge: t28r23w	Cut Block Size: 23.9 ha
OPERATING AREA: Drifting River	Ownership: Open Crown	Mapsheet: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	71	18.1	30	66%	74	1,762
BA		19.3	34	13%	15	349
WB		13.3	29	2%	2	46
Total HW				81%	90	2,157
WS	66	18.4	33	19%	21	507
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				19%	21	507
Block Total:					111	2,664

Understory Stems/ha and Distribution			
WS	BS	BF	
36	Clumped		

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	05	08	
Eco Site	51	31	

LFH(cm)	S-Type	Moisture	Surface Texture
10	S6	1	Silty Clay Loam
12	S10	4	Clay Loam

Cover Type: H	IBWC Cnt: 5
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 2,608
 SOFTWOOD VOLUME (m3): 481

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3
Flood	MFZ	Located in center of block on E side. Maintain structure. Harvest as shown on map.
Roads	30	PR 366 located on W side. Harvest as shown on map. See IRMT comment.
Stream	10	Located on E side. Stream is flooded and has large riparian area. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 191 to 287 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel, willow, alder, thistle, fireweed and blue-joint grass are present in the block.
 This block has generally flat topography.
 Heavy beaver activity within the block; maintain shrub structure only along inblock swales located in NE corner of the block.
 Keep equipment out of old harvest areas on N and S side of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2027

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/12/12
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Discuss buffer mgmt in relation to age of TA. Multi cohort? Review PHS. Require crossing detail to reestablish 13282302-01-1. Close existing road to same standard as current closure. Close road during inactive periods each year. 10 m buffer from top of down slope. Stream buffered each side.	These buffers are old poplar and hazel, not much HWD regen occurring. IRMT agrees 30 metre visual barrier on 366 may be adjusted greater or lesser depending on topography and land features as long as significant visual barrier is maintained. Crossing detail will be provided when crossed. Planned for 2007. Agreed. Agreed. Agreed. Yes.	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: DFR-014	Twp & Rge: t28r23w	Cut Block Size: 78.2 ha
OPERATING AREA: Drifting River	Ownership: Open Crown	Mapsheets: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	81	18.6	26	60%	95	7,421
BA	73	17.5	26	21%	33	2,574
WB		15.5	20	2%	3	273
Total HW				83%	131	10,268
WS	85	16.6	28	17%	27	2,113
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				17%	27	2,113
Block Total:					158	12,381

Understory Stems/ha and Distribution					
WS		BS		BF	
48	Clumped				

Eco Land Classification	1st			2nd			3rd		
	V Type			Eco Site					
	05	08	09	31	32	51			

Soils Summary			
LFH(cm)	S-Type	Moisture	Surface Texture
11	S8	2	Sandy Loam
06	S1	2	Loamy Sand
05	S6	2	Silty Clay
08	S5	2	Clay Loam

Cover Type: H	IBWC Cnt: 6
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 9,755
 SOFTWOOD VOLUME (m3): 2,007

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

FEATURE	WIDTH (m)	DETAILS
1 Flood	MFZ	Located on S side. Structure will be maintained. Harvest as shown on map.
2 Flood	MFZ	Located on W side. Structure will be maintained. Harvest as shown on map.
3 Flood	MFZ	Located on E side. Structure will be maintained. Harvest as shown on map.
4 Mineral Lick	100	Possible lick located on W side. Harvest as shown on map.

NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 626 to 938 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel is present throughout the block. Willow, alder, rose, fireweed, thistle and blue-joint grass is present in small amounts.
 This block has generally flat topography.
 There is adjacent harvest from 1997 on the N side of block. The regenerating stand exceeds the 3 m hardwood guideline.
 Maintain shrub and treed structure around wetlands located within the centre and NW corner of the block.
 Maintain a max of 13 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Snags mainly concentrated within the centre and W side of the block; maintain within WTP's where safe to do so.
 Maintain structure along IBWC located in S end of block.
 Establish WLTP in bottle neck E of mineral lick.
 Maintain MFZ along snowmobile trail at S end of block. Trail follows the Provincial Forest Boundary. Keep debris off the trail. Maintain structure along trail.
 No in block roads within 150 m of Provincial Forest Boundary along S side.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2027

RENEWAL COMMENTS/ISSUES:

Area of WS understory >500 stems/ha and <6m in height is located in the SE portion of the block (plot 43). Clumps of understory will be protected in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/12/12
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

50m buffer on each side of road DFR-3B and 3C until back area is done.	Discussed other options to allow harvest of block. Agreed on establishing a gate at the start of the road into the operating area and spreading slash and debris on the road at the start of DFR-014 when harvest complete. Make access difficult for ATV.	<input checked="" type="checkbox"/>
Ensure cover retained adjacent to mineral lick (narrow portion of block). Understory protection strategy before harvest.	Will adjust block boundary to ensure a minimum of 100 m buffer. Will plan a WLTP in bottle neck and around wetland in vicinity. Skid trails if harvesting in high density WS understory < 6m in height.	<input checked="" type="checkbox"/>
Stream crossing information to Fisheries Biologist.	Discussed in general comments. Information provided.	<input checked="" type="checkbox"/>
Ensure old road wood is windrowed and returned for decommissioning.	OK. Will put comment on road forms.	<input checked="" type="checkbox"/>
Minimize impact to regen during road development and harvest.	Standard practice in SOG's.	<input checked="" type="checkbox"/>
Snowmobile trail along S boundary, maintain MFZ and structure.	OK.	<input checked="" type="checkbox"/>



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: DFR-015	Twp & Rge: t28r23w	Cut Block Size: 6.4 ha
OPERATING AREA : Drifting River	Ownership: Open Crown	Mapsheet: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	89	19.9	26	90%	229	1,456
BA		17.0	16	4%	9	59
WB				0%	0	0
Total HW				94%	238	1,515
WS		14.2	22	6%	16	102
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				6%	16	102
Block Total:					254	1,617

Understory Stems/ha and Distribution					
WS		BS		BF	
75	Clumped				

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	13	05	08
Eco Site	23	32	11

LFH(cm)	S-Type	Moisture	Surface Texture
09	S5	2	Silty Clay Loam
05	S8	3	Sandy Loam
07	S1	0	Clay Loam

Cover Type: H	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 1,439
 SOFTWOOD VOLUME (m3): 97

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located along the E side. Structure will be maintained. Harvest as shown on map.
2	Stream	50	Drifting River located along the S side. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 51 to 76 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel, alder and thistle are present in the block.
 This block has generally flat topography.
 There is adjacent harvest from 1997 on the W side of block. The regenerating stand exceeds the 3 m hardwood guideline.

Drifting River



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **10/12/12**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Discuss changing access to DFR-010, 011, 019 to come from 015 or 016.

Discussed in general comments. Proposed access will be evaluated.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: DFR-016	Twp & Rge: t28r23w	Cut Block Size: 15.5 ha
OPERATING AREA : Drifting River	Ownership: Open Crown	Mapsheet: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	90	19.6	27	40%	60	931
BA		17.4	24	14%	20	318
WB		17.1	26	5%	7	114
Total HW				59%	88	1,363
WS	79	18.0	28	32%	48	747
BS		14.8	20	2%	4	57
JP		19.3	33	6%	10	148
BF				0%	0	0
Total SW				41%	61	952
Block Total:					149	2,315

Understory Stems/ha and Distribution					
WS		BS		BF	
44	Clumped				

Eco Land Classification	1st			2nd			3rd		
	V Type			Eco Site			Soils Summary		
	LFH(cm)	S-Type	Moisture	Surface Texture					
	13	08	21	09	S5	2	Silty Clay Loam		
	34	23		10	S5	3	Sandy Clay Loam		

Cover Type: N	IBWC Cnt: 1
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 1,284
 SOFTWOOD VOLUME (m3): 904

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located along N and NE sides. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **124** to **186** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel, alder, thistle, fireweed and blue-joint grass are present in the block.
 This block has generally flat topography.
 There is adjacent harvest from 1997 on the E and S side of block. The regenerating stand exceeds the 3 m hardwood guideline.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	1600	5760
2023	Sp	WS	1600	8640

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/12/12
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Confirm inblock road to DFR-017 closed with debris. LP to provide strategy for understory protection.</p>	<p>Comment is in road development plan. Discussed in general comments.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: DFR-017	Twp & Rge: t28r23w	Cut Block Size: 29.3 ha
OPERATING AREA : Drifting River	Ownership: Open Crown	Mapsheets: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	85	19.8	31	84%	158	4,641
BA	75	18.8	27	14%	26	749
WB				0%	0	0
Total HW				98%	184	5,390
WS		17.4	31	2%	4	121
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				2%	4	121
Block Total:					188	5,511

Understory Stems/ha and Distribution					
WS		BS		BF	
36	Clumped				

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	05		
Eco Site	11		

LFH(cm)	S-Type	Moisture	Surface Texture
04	S2	1	Silty Sand
05			Silty Clay

Cover Type: H	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 5,120
 SOFTWOOD VOLUME (m3): 115

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2
Flood	Stream
MFZ	MFZ
Located on the N and NE sides. Structure will be maintained. Harvest as shown on map.	
Drifting River located along W side. Structure will be maintained. Harvest as shown on map.	

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **235** to **352** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel is present throughout the block. Blue-joint grass and fireweed are present in small amounts.
 This block has generally flat topography.
 Incorporate WTP's around open areas located near the N edge and SE edge of the block.
 Maintain up to 5 wildlife debris piles no more than 75 m and no closer than 30 m from stand edge to promote marten prey habitat.
 Few snags within the block; mainly concentrated within the centre and W side of the block. Maintain within WTP's where safe to do so.

Drifting River



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

Area of WS understory >500 stems/ha and <6m in height is located in the N end of the block (plot 14). Clumps of understory will be protected in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/12/12
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>No concerns.</p>	<div style="text-align: right;"><input checked="" type="checkbox"/></div>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: DFR-019	Twp & Rge: t28r23w	Cut Block Size: 5.9 ha
OPERATING AREA : Drifting River	Ownership: Open Crown	Mapsheets: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **958**
 SOFTWOOD VOLUME (m3): **164**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on all sides of block. Floods/wetlands are expanding. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **47** to **71** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The stand/volume information provided is from similar blocks in this operating area. The average volume is 138m3/ha hardwood and 24m3/ha softwood.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2029

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: DFR-021	Twp & Rge: t28r23w	Cut Block Size: 12.1 ha
OPERATING AREA: Drifting River	Ownership: Open Crown	Mapsheets: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **2,275**
 SOFTWOOD VOLUME (m3): **389**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on all sides of block. Floods/wetlands are expanding. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **97** to **146** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The stand/volume information provided is from similar blocks in this operating area. The average volume is 138m3/ha hardwood and 24m3/ha softwood.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2029

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: DFR-022	Twp & Rge: t28r23w	Cut Block Size: 13.4 ha
OPERATING AREA: Drifting River	Ownership: Open Crown	Mapsheets: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **2,426**
 SOFTWOOD VOLUME (m3): **415**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on all sides of block. Floods/wetlands are expanding. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **107** to **161** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The stand/volume information provided is from similar blocks in this operating area. The average volume is 138m3/ha hardwood and 24m3/ha softwood.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2029

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: DFR-023	Twp & Rge: t28r23w	Cut Block Size: 16.5 ha
OPERATING AREA : Drifting River	Ownership: Open Crown	Mapsheets: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	98	21.3	33	75%	137	2,255
BA		21.0	38	3%	5	89
WB		15.5	20	21%	39	639
Total HW				100%	181	2,983
WS		10.5	20	0%	1	14
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	1	14
Block Total:					182	2,997

Understory Stems/ha and Distribution					
WS		BS		BF	
120	Clumped				

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type	05			06	S2	2	Sandy Loam
Eco Site	22						

Cover Type: H	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 2,833
 SOFTWOOD VOLUME (m3): 13

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	30-50	Drifting River located on the N side. Variable 30 to 50m buffer. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **132** to **198** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Some beaver activity in the S end of the block.
 Maintain juvenile WS seed trees where possible.

Drifting River



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **10/27/17**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Frozen access only.	Agreed.
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: DFR-024	Twp & Rge: t28r23w	Cut Block Size: 9.1 ha
OPERATING AREA : Drifting River	Ownership: Open Crown	Mapsheets: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA		22.3	38	62%	114	1,038
BA	182	20.0	28	9%	16	145
WB		20.5	36	2%	3	31
Total HW				72%	134	1,214
WS		19.5	37	28%	52	469
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				28%	52	469
Block Total:					186	1,683

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type	05	08		06	S2	2	Sandy Loam
Eco Site	22						

Cover Type: N	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 1,300
 SOFTWOOD VOLUME (m3): 478

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Feature	Width (m)	Details
1	Flood	MFZ	Located on S and E sides. Extensive beaver activity. Harvest as shown on map.
2	Stream	MFZ	Drifting River located on the E side. Extensive beaver activity along river. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **73** to **109** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaver activity present in and around the block.

Drifting River



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

Site will be monitored to determine if any assisted regeneration is required. NIR does not show any obvious spruce areas to plant.
 Leave WS seed trees close to roads where possible.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/27/17
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Possible to leave WS seed trees instead on planting? Too much hazel? Frozen access only.</p>	<p>Agreed. Seed trees will be left close to roads. Agreed.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: DFR-025	Twp & Rge: t28r23w	Cut Block Size: 37.0 ha
OPERATING AREA : Drifting River	Ownership: Open Crown	Mapsheet: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	106	19.0	37	60%	83	3,083
BA		19.0	31	17%	23	851
WB		17.2	30	11%	15	569
Total HW				88%	122	4,503
WS	72	16.6	33	12%	16	602
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				12%	16	602
Block Total:					138	5,105

Understory Stems/ha and Distribution					
WS		BS		BF	
22	Clumped			11	Clumped

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	05	08	13
Eco Site	34	32	

Soils Summary	
LFH(cm)	S-Type
12	S10
03	S5
06	S10

Soils Summary	
Moisture	Surface Texture
5	Sandy Clay Loam
2	Sandy Clay Loam
5	Sandy Clay Loam

Cover Type: H	IBWC Cnt: 4
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 4,279
 SOFTWOOD VOLUME (m3): 572

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	MFZ	Located on S side. Extensive beaver activity. Harvest as shown on map.
2	Flood	MFZ	Located on the E and N sides. Extensive beaver activity. Harvest as shown on map.
3	Roads	30	Hwy 366 located on the W side. Flag as shown on map. See IRMT comment. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **296** to **444** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain structure along IBWC's located near plots 1, 7, 11 and 17. Beavers are flooding some of these features.
 Maintain juvenile WS seed trees where possible.



RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **10/27/17**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Discuss buffer mgmt in relation to age of TA. Multi cohort? Review PHS?	These buffers are old poplar and hazel, not much HWD regen occurring. IRMT agrees 30 metre visual barrier on 366 may be adjusted greater or lesser depending on topography and land features as long as significant visual barrier is maintained.	<input checked="" type="checkbox"/>
Why 75m buffer on hwy instead on 100m?	Trying to capture more volume now rather than in the buffer due to decline of the timber.	<input checked="" type="checkbox"/>
Frozen access only.	Agreed.	<input checked="" type="checkbox"/>



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: DFR-055	Twp & Rge: t28r23w	Cut Block Size: 36.5 ha
OPERATING AREA : Drifting River	Ownership: Open Crown	Mapsheets: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 4,925
 SOFTWOOD VOLUME (m3): 1,215

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ-50	Located on all sides of this multi patch block. Variable MFZ to 50m buffer. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **292** to **438** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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Integrated Operations by Operating Area

Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 13

East Favel

EAF-005	51.57 Hectares		2023 Harvest
HW Allocation	9,637 m3	LP	
SW Allocation	1,147 m3	SPL	
EAF-006	32.82 Hectares		2023 Harvest
HW Allocation	4,268 m3	LP	
SW Allocation	2,719 m3	SPL	
EAF-008	48.94 Hectares		2023 Harvest
HW Allocation	8,060 m3	LP	
SW Allocation	911 m3	SPL	
EAF-009	28.61 Hectares		2023 Harvest
HW Allocation	6,759 m3	LP	
SW Allocation	1,895 m3	SPL	
EAF-010	9.14 Hectares		2023 Harvest
HW Allocation	1,053 m3	LP	
SW Allocation	950 m3	SPL	
EAF-016	54.75 Hectares		2023 Harvest
HW Allocation	8,009 m3	LP	
SW Allocation	3,506 m3	SPL	
EAF-055	101.54 Hectares		2022 Contingency
HW Allocation	13,523 m3	LP	
SW Allocation	1,766 m3	SPL	
EAF-056	64.04 Hectares		2022 Contingency
HW Allocation	8,291 m3	LP	
SW Allocation	5,567 m3	SPL	
EAF-057	119.80 Hectares		2022 Contingency
HW Allocation	17,677 m3	LP	
SW Allocation	5,835 m3	SPL	
EAF-059	120.59 Hectares		2023 Contingency
HW Allocation	19,535 m3	LP	
SW Allocation	2,532 m3	SPL	
EAF-104	43.21 Hectares		2023 Contingency
HW Allocation	6,914 m3	LP	
SW Allocation	907 m3	SPL	
EAF-829	40.61 Hectares		2022 Harvest
HW Allocation	7,232 m3	Quota Holder/LP	
SW Allocation	3,906 m3	Quota Holder/SPL	



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Integrated Operations by Operating Area

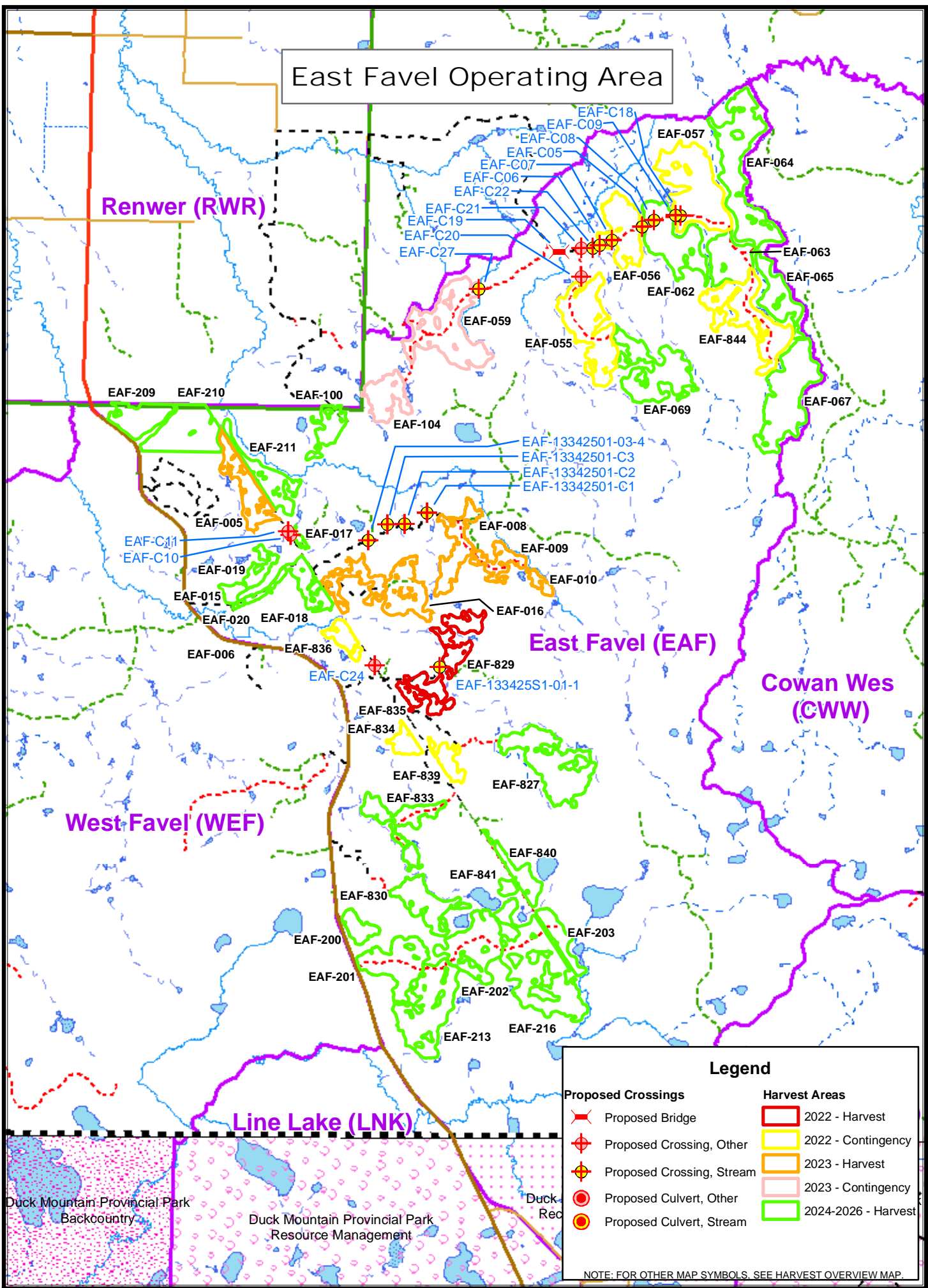
Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 13

East Favel

EAF-834	17.31 Hectares		2022 Contingency
HW Allocation	2,075 m3	Quota Holder/LP	
SW Allocation	1,960 m3	Quota Holder/SPL	
EAF-835	38.66 Hectares		2022 Harvest
HW Allocation	3,458 m3	Quota Holder/LP	
SW Allocation	5,422 m3	Quota Holder/SPL	
EAF-836	20.47 Hectares		2022 Contingency
HW Allocation	2,879 m3	Quota Holder/LP	
SW Allocation	612 m3	Quota Holder/SPL	
EAF-839	20.87 Hectares		2022 Contingency
HW Allocation	3,980 m3	Quota Holder/LP	
SW Allocation	201 m3	Quota Holder/SPL	
EAF-844	97.30 Hectares		2022 Contingency
HW Allocation	9,287 m3	LP	
SW Allocation	11,524 m3	SPL	

East Favel Operating Area



Legend

Proposed Crossings		Harvest Areas	
	Proposed Bridge		2022 - Harvest
	Proposed Crossing, Other		2022 - Contingency
	Proposed Crossing, Stream		2023 - Harvest
	Proposed Culvert, Other		2023 - Contingency
	Proposed Culvert, Stream		2024-2026 - Harvest

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.

Mitigation Comments

General

Operating Area	Concern	Manitoba	Action/Response
East Favel	Access Control	Where ATV access is to be left for renewal purposes, only one central access may be retained. No in block spur roads are to be left. A limited number of strategically distributed helicopter landing areas may be left on roads and landings. Access to be closed following completion of planting activities by no later than July 31, unless separate approval is applied for.	Agreed. Will determine on a site by site basis.

Site Specific

Block	Concern	Manitoba	Action/Response
EAF-2A-3A	Typo?	The road description says it is 0.0 km.	Added road distance to access form.
EAF-005	No concerns	No concerns with block as shown.	
EAF-008	No concerns	No concerns with block as shown.	
EAF-016	Access Rehabilitation	Since the block will be planted via helicopter, road closure should be done post-harvest, not post-renewal.	Road form shows access to be closed post harvest.
EAF-050, 056	Harvest Sequence	Already permitted. Listed as future contingency. Will blocks not be completed this year?	Block EAF-050 will be done this year. Block EAF-056 will probably be done next winter.
EAF-009	Age of Mitigation	Last mitigated 2007. Will revisit mitigation at permit time.	
EAF-010	Age of Mitigation	Last mitigated 2007. Will revisit mitigation at permit time.	
EAF-055	Age of Mitigation	Last mitigated 2005. Will revisit mitigation at permit time.	

EAF-057	Age of Mitigation	Last mitigated 2005. Will revisit mitigation at permit time.
EAF-829	Age of Mitigation	Last mitigated 2015. Will revisit mitigation at permit time.
EAF-844	Age of Mitigation	Last mitigated 2006. Will revisit mitigation at permit time.
EAF-059	Not Surveyed	Will mitigate after survey.
EAF-006, 834, 835, 836 and 839	No concerns	Blocks were mitigated less than five years ago.

Roads

East Favel

EAF-2A to 2F (existing)

Additional Road Development Comments

These roads are part of the access to EAF-827, 829, 833, 834 and 836 from hwy 839 and along the hydro line.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
3.8	15	6	Frozen	50

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
Quota Holder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The first portion of this trail is an existing trail which will be left open. Most of this road follows the hydro line which will be left open.

EAF-2A-2A (existing)

Additional Road Development Comments

This road accesses block EAF-829.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.5	15	6	Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
Quota Holder	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This is a winter road which will melt restricting access. Crossing EAF-133425S1-01-1 will melt restricting access.

EAF-2A-3A (existing)

Additional Road Development Comments

This road accesses block EAF-836. This road is on the hydro line.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.7	15	6	Frozen	50

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
Quota Holder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This road is on the hydro line and will remain open. This is a winter road which will melt restricting access.

EAF-5E (existing)**Additional Road Development Comments****Road Development:**

This road accesses block EAF-050 and is part of the main access to blocks EAF-055 to 057, 059 and 844. They go up to the intersection to block EAF-055.

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.0	15	6	Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This a winter road and will remain open for future harvest.

EAF-5E-1A**Additional Road Development Comments****Road Development:**

This road accesses block EAF-055.

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.6	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This is a winter road and will remain open. Crossing EAF-C20 will melt restricting access.

EAF-5E-2A**Additional Road Development Comments****Road Development:**

This road accesses block EAF-059 and is part of the access to blocks CRP-080 and EAF-104.

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.6	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with debris at selected locations in block EAF-050 and 059. Selected locations include landings and other areas where debris accumulates. ATV access is required for renewal activities.

EAF-5E-2B**Additional Road Development Comments****Road Development:**

This road accesses block CRP-080 and is part of the access to block EAF-104.

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.8	15	6	Frozen	2

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed with slash and debris in block EAF-059. ATV access is required for renewal purposes and surveys.

EAF-5E-2B-1A

Additional Road Development Comments

This road accesses block EAF-104.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.1	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed with slash and debris in block EAF-059. ATV access is required for renewal purposes and surveys.

EAF-5F

Additional Road Development Comments

This road is part of the main access to blocks EAF-056, 057 and EAF-844. It goes up to block EAF-056.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.5	15	6	Frozen	15

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This is a winter road and will remain open for future harvest. Crossings EAF-C06, C21 and C22 will melt restricting access.

EAF-5G

Additional Road Development Comments

This road is part of the main access to blocks EAF-057 and EAF-844. This road is in block EAF-056.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.8	15	6	Frozen	15

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed with debris at selected locations in block EAF-056. Selected locations include landings and other areas where debris accumulates. Crossing EAF-C07 will melt restricting access. ATV access is required for renewal activities.

EAF-5H**Additional Road Development Comments**

This road is part of the main access to blocks EAF-057 and EAF-844. It goes up to block EAF-057.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.5	15	6	Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This is a winter road and will remain open for future harvest. Crossings EAF-C05 will be removed and C08 and C09 will melt restricting access.

EAF-5I**Additional Road Development Comments**

This road is part of the main access to block EAF-844. This road is in block EAF-057.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.0	15	6	Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with debris at selected locations in block EAF-057. Selected locations include landings and other areas where debris accumulates. Crossing EAF-C18 will melt restricting access. ATV access is required for renewal activities.

EAF-5J**Additional Road Development Comments**

This road accesses block EAF-844.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.9	15	6	Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
SPL			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This is a winter road and will remain open for future harvest.

EAF-7A to 7E (existing)**Additional Road Development Comments**

These roads access blocks EAF-008 and are part of the access to blocks EAF-005, 006, 009, 010 and 016.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
6.0	15	6	Frozen	25

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	This is an existing road which will remain open.

EAF-7A-1A and 1B (existing)

Additional Road Development Comments

These roads are on the hydro line and access block EAF-005.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.0	15	6	Frozen	50

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	This road is on the hydro line and will remain open.

EAF-7B-1A (existing)

Additional Road Development Comments

This road is on the hydro line and is part of the access to blocks EAF-006 and 016.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.4	15	6	Frozen	50

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	This road is on the hydro line and will remain open.

EAF-7B-1B (existing)

Additional Road Development Comments

This road accesses block EAF-016.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.2	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed with slash and debris at selected locations in block EAF-006. ATV access is required for renewal and survey purposes.

EAF-7E-1A

**Additional Road Development
Comments**

This road accesses blocks EAF-009 and 010.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.9	15	6	Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Slash and Debris	Slash Berm	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Post-Renewal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: EAF-133425S1-01-1		Ownership: Quota Holder	
Operating Area:	East Favel	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5754871	UTM Easting:	366346
Stream Type:	Permanent	Land Description:	SE-21-34-25-W
Watercourse Name:	Trib of West Favel River	Crossing Inspection Date:	16-April-2015
Channel Width (m):	2.0	Stream Assessment Required:	
Water Depth (m):	0.50	Stream Assessment Complete:	
Road Name:	EAF-2A-2A		

Site Description:

Crossing is on a tributary of the West Favel River. The photo was taken in the spring during peak flow period. Winter flows will be reduced and allow snow/ice crossing with logs to maintain flow.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>




Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 December,2022"/>	to <input type="text" value="31 March,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

Corduroy/logs may be added to the snow/ice to help maintain water flow and strengthen the crossing.

After harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. If possible corduroy/logs will be removed at this time. The snow and ice crossing will melt and the area will return to near natural conditions.

PROPOSED CROSSING EAF-133425S1-01-1

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: EAF-C05

Operating Area: East Favel
UTM Northing: 5762695
Stream Type: Permanent
Watercourse Name: N/A
Channel Width (m): 1.2
Water Depth (m): .2
Road Name: EAF-5G

Ownership: LP

Contingency Crossing:
UTM Easting: 369894
Land Description: SE13-35-25W
Crossing Inspection Date: 16-May-2005
Stream Assessment Required:
Stream Assessment Complete:

Site Description:

This proposed crossing is located on a permanent stream channel situated within a mixedwood stand. The channel substrate is composed of rock, cobble, gravel and silt. No fish were observed at the time of inspection. A stream assessment was not conducted due to the inaccessibility of the crossing location.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:

Crossing Duration: Years

Remove after Renewal Activities:




Installation & Removal Notes:

A minimum 45 ft bridge span is required.

After harvesting activities are completed the portable bridge will be removed and the road approaches will be recontoured to a near natural condition. The area will be seeded and erosion control or straw mulch will be used to further stabilize the site.

If a snow and ice crossing is used after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions.

PROPOSED CROSSING EAF-C05

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: EAF-C06		Ownership: LP	
Operating Area:	East Favel	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5761891	UTM Easting:	369286
Stream Type:	Seasonal	Land Description:	NE12-35-25W
Watercourse Name:	N/A	Crossing Inspection Date:	18-May-2005
Channel Width (m):	1.0	Stream Assessment Required:	
Water Depth (m):	.05	Stream Assessment Complete:	
Road Name:	EAF-5F		

Site Description:

This proposed crossing is located on an alder swale within a mixedwood stand. The substrate is composed of rock, gravel and sand substrate. No fish were observed at the time of inspection.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>




Crossing Lifespan:

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 December,2022"/>	to <input type="text" value="31 March,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

After harvest the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the site will return to near natural conditions.

PROPOSED CROSSING EAF-C06

 A photograph showing a wooded area with a stream. In the foreground, there is a culvert structure partially obscured by fallen branches and debris. The trees are mostly bare, suggesting a late autumn or winter setting.	<p>Across</p>
 A photograph showing a wooded area with a stream. The stream is partially obscured by dense brush and fallen branches. The trees are mostly bare, suggesting a late autumn or winter setting.	<p>Upstream</p>
 A photograph showing a wooded area with a stream. The stream is partially obscured by dense brush and fallen branches. The trees are mostly bare, suggesting a late autumn or winter setting.	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: EAF-C07		Ownership: LP	
Operating Area:	East Favel	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5761978	UTM Easting:	369418
Stream Type:	Seasonal	Land Description:	NE12-35-25W
Watercourse Name:	N/A	Crossing Inspection Date:	18-May-2005
Channel Width (m):	.40	Stream Assessment Required:	
Water Depth (m):	.10	Stream Assessment Complete:	
Road Name:	EAF-5G		

Site Description:

This proposed crossing is located on an alder swale within a mixedwood stand. The substrate is composed of rock, gravel and sand substrate. No fish were observed at the time of inspection.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:




	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 December,2022"/>	to <input type="text" value="31 March,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

Once harvest is completed, the surface of the snow and ice crossing will be cleaned off and a trench will be constructed in order to allow for unobstructed flows during the spring melt. If required, erosion control measures will be applied (e.g straw bales) along the road approaches to temporarily prevent sediment from entering the watercourse.

PROPOSED CROSSING EAF-C07

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: EAF-C08

Operating Area: East Favel
UTM Northing: 5762739
Stream Type: Seasonal
Watercourse Name: N/A
Channel Width (m): .5
Water Depth (m): .1
Road Name: EAF-5H

Ownership: LP

Contingency Crossing:
UTM Easting: 370115
Land Description: SW18-35-24W
Crossing Inspection Date: 16-May-2005
Stream Assessment Required:
Stream Assessment Complete:

Site Description:

This proposed crossing is located on an alder swale within a mixedwood stand. The substrate is composed of rock, gravel and sand substrate. No fish were observed at the time of inspection.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:




Crossing Duration: Years

Remove after Renewal Activities:

Installation & Removal Notes:

Once harvest is completed, the surface of the snow and ice crossing will be cleaned off and a trench will be constructed in order to allow for unobstructed flows during the spring melt. If required, erosion control measures will be applied (e.g straw bales) along the road approaches to temporarily prevent sediment from entering the watercourse.

PROPOSED CROSSING EAF-C08

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: EAF-C09		Ownership: LP	
Operating Area:	East Favel	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5762819	UTM Easting:	370507
Stream Type:	Seasonal	Land Description:	SW18-35-24W
Watercourse Name:	N/A	Crossing Inspection Date:	16-May-2005
Channel Width (m):	.4	Stream Assessment Required:	
Water Depth (m):	.15	Stream Assessment Complete:	
Road Name:	EAF-5H		

Site Description:

This proposed crossing is located on an alder swale within a mixedwood stand. The substrate is composed of rock, gravel and sand substrate. No fish were observed at the time of inspection.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>




Crossing Lifespan:

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 December,2022"/>	to <input type="text" value="31 March,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

After harvest, the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice will melt and the site will return to near natural conditions.

PROPOSED CROSSING EAF-C09

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: EAF-C10		Ownership: LP	
Operating Area:	East Favel	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5757195	UTM Easting:	363713
Stream Type:	Other Watercourse	Land Description:	NW29-34-25W
Watercourse Name:	N/A	Crossing Inspection Date:	18-April-2005
Channel Width (m):	.3	Stream Assessment Required:	
Water Depth (m):	.1	Stream Assessment Complete:	
Road Name:	EAF-1A-2B		

Site Description:

Seasonal drain from alder swale on one side of hydro line to alder swale on other side of hydro line.
 No continuous banks.
 Clay substrate.
 Sedge along hydro line.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Crossing Lifespan:

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:




Crossing Duration: Years

Remove after Renewal Activities:

Installation & Removal Notes:

After harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions.

PROPOSED CROSSING EAF-C10

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: EAF-C11		Ownership: LP	
Operating Area:	East Favel	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5757261	UTM Easting:	363672
Stream Type:	Other Watercourse	Land Description:	NW29-34-25W
Watercourse Name:	N/A	Crossing Inspection Date:	18-April-2005
Channel Width (m):	N/A	Stream Assessment Required:	
Water Depth (m):	N/A	Stream Assessment Complete:	
Road Name:	EAF-1A-2B		

Site Description:

No flow or channel.
 Large sedge meadow on hydro line.
 Some standing water along quad trail.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Crossing Lifespan:

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:




Crossing Duration: Years

Remove after Renewal Activities:

Installation & Removal Notes:

After harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions.

PROPOSED CROSSING EAF-C11

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: **EAF-C18**

Operating Area: East Favel
UTM Northing: 5762817
Stream Type: Seasonal
Watercourse Name: N/A
Channel Width (m): 1.0
Water Depth (m): .1
Road Name: EAF-5I

Ownership: LP/SPL

Contingency Crossing:
UTM Easting: 370589
Land Description: SW18-35-24W
Crossing Inspection Date: 16-May-2005
Stream Assessment Required:
Stream Assessment Complete:

Site Description:

This proposed crossing is located on a small permanent stream situated within a hardwood stand. The substrate is composed of rock, gravel, sand and clay. At the time of inspection stream flow was moderate and no fish were observed but may potentially use the channel during specific periods throughout the year.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:




Crossing Duration: Years

Remove after Renewal Activities:

Installation & Removal Notes:

Once harvest is completed, the surface of the snow and ice crossing will be cleaned off and a trench will be constructed in order to allow for unobstructed flows during the spring melt. If required, erosion control measures will be applied (e.g straw bales) along the road approaches to temporarily prevent sediment from entering the watercourse.

PROPOSED CROSSING EAF-C18

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: EAF-C19

Operating Area: East Favel
UTM Northing: 5762175
Stream Type: Permanent
Watercourse Name: West Duck River
Channel Width (m): 3.0
Water Depth (m): .20
Road Name: EAF-5E

Ownership: LP

Contingency Crossing:
UTM Easting: 368455
Land Description: NW12-35-25W
Crossing Inspection Date: 20-October-2005
Stream Assessment Required:
Stream Assessment Complete:

Site Description:

This proposed crossing is located on a permanent stream channel situated within a mixedwood stand. The channel substrate is composed of rock, cobble, gravel and silt. No fish were observed at the time of inspection, however fish are suspected to be present within the stream. A stream assessment was not conducted due to the inaccessibility of the crossing location. A bridge will be installed in order to minimize disturbance to a potentially fish bearing location.

General Considerations:

The installation of a portable bridge at this location is considered to be a low risk activity. LP will follow DFO Operational Statement for Clear Span Bridges.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:

Crossing Duration: Years

Remove after Renewal Activities:

Installation & Removal Notes:

A minimum 45ft bridge span required.
 After harvesting activities are completed the bridge will be removed and the road approaches will be recontoured to a near natural condition. The area will be seeded and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING EAF-C19



Across



Upstream



Downstream



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: EAF-C20		Ownership: LP	
Operating Area:	East Favel	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5761746	UTM Easting:	368837
Stream Type:	Other Watercourse	Land Description:	NW12-35-25W
Watercourse Name:	N/A	Crossing Inspection Date:	18-May-2005
Channel Width (m):	NA	Stream Assessment Required:	
Water Depth (m):	NA	Stream Assessment Complete:	
Road Name:	EAF-5E-1A		

Site Description:

This proposed crossing is located on a large beaver flood complex surrounded by sedge and alder. Partial removal of a beaver dam downstream will be needed, however upstream dam will remain intact. No fish observed at the time of the initial inspection, but are suspected to be present. A snow and ice crossing will be used in order to minimize disturbance to potential fish habitat.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 December,2022"/>	to <input type="text" value="31 March,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

Once harvest is completed, the surface of the snow and ice crossing will be cleaned off and a trench will be constructed in order to allow for unobstructed flows during the spring melt. If required, erosion control measures will be applied (e.g straw bales) along the road approaches to temporarily prevent sediment from entering the watercourse.

PROPOSED CROSSING EAF-C20



Across



Upstream



Downstream



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: EAF-C21		Ownership: LP	
Operating Area:	East Favel	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5762248	UTM Easting:	368840
Stream Type:	Other Watercourse	Land Description:	NW12-35-25W
Watercourse Name:	N/A	Crossing Inspection Date:	18-May-2005
Channel Width (m):	.75	Stream Assessment Required:	
Water Depth (m):	.10	Stream Assessment Complete:	
Road Name:	EAF-5F		

Site Description:

This proposed crossing is located on an alder swale within a mixedwood stand. The substrate is composed of rock, gravel and sand substrate. No fish were observed at the time of inspection.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:




	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 December,2022"/>	to <input type="text" value="31 March,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

Once harvest is completed, the surface of the snow and ice crossing will be cleaned off and a trench will be constructed in order to allow for unobstructed flows during the spring melt. If required, erosion control measures will be applied (e.g straw bales) along the road approaches to temporarily prevent sediment from entering the watercourse.

PROPOSED CROSSING EAF-C21

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: **EAF-C22**

Operating Area: East Favel
UTM Northing: 5762251
Stream Type: Permanent
Watercourse Name: N/A
Channel Width (m): 1.5
Water Depth (m): .10
Road Name: EAF-5F

Ownership: LP

Contingency Crossing:
UTM Easting: 369044
Land Description: NW12-35-25W
Crossing Inspection Date: 18-May-2005
Stream Assessment Required:
Stream Assessment Complete:

Site Description:

This proposed crossing is located on a permanent stream channel situated within a mixedwood stand. The channel substrate is composed of rock, cobble, gravel and silt. No fish were observed at the time of inspection, however fish are suspected to be present within the stream. A stream assessment was not conducted due to the inaccessibility of the crossing location. A snow and ice crossing will be installed in order to minimize disturbance to a potentially fish bearing location.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:




Crossing Duration: Years

Remove after Renewal Activities:

Installation & Removal Notes:

Once harvest is completed, the surface of the snow and ice crossing will be cleaned off and a trench will be constructed in order to allow for unobstructed flows during the spring melt. If required, erosion control measures will be applied (e.g straw bales) along the road approaches to temporarily prevent sediment from entering the watercourse.

PROPOSED CROSSING EAF-C22

 A photograph showing a view across a stream. The water is calm and reflects the surrounding trees. The banks are covered in dense, bare trees and brush, with some evergreens visible in the background.	<p>Across</p>
 A photograph showing a view upstream. A large, fallen log is partially submerged in the water, creating a barrier. The water is shallow and clear, and the banks are lined with bare trees and brush.	<p>Upstream</p>
 A photograph showing a view downstream. The stream flows through a dense forest of bare trees. The water is calm and reflects the sky. The banks are covered in brush and fallen branches.	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: EAF-C27		Ownership: LP
Operating Area:	East Favel	Contingency Crossing: <input type="checkbox"/>
UTM Northing:	5761540	UTM Easting: 367032
Stream Type:	Seasonal	Land Description: SW11-35-25W
Watercourse Name:	N/A	Crossing Inspection Date:
Channel Width (m):		Stream Assessment Required:
Water Depth (m):		Stream Assessment Complete:
Road Name:	EAF-5E-2A	

Site Description:

Crossing photos and prescription will be supplied prior to harvest.

General Considerations:

Crossing Structure:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Crossing Lifespan:

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:

Crossing Duration: Years

Remove after Renewal Activities:

Installation & Removal Notes:

PROPOSED CROSSING EAF-C27

	Across
No Photo Available Photo will be supplied prior to crossing use.	Upstream
	Downstream



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: EAF-005	Twp & Rge: t34r25w	Cut Block Size: 51.6 ha
OPERATING AREA: East Favel	Ownership: Open Crown	Mapsheets: 360575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	75	20.6	30	71%	155	8,002
BA	72	17.1	28	12%	25	1,306
WB	75	15.5	21	7%	16	835
Total HW				89%	197	10,143
WS	90	17.8	35	0%	1	42
BS	70	16.3	27	4%	9	467
JP	106	21.3	33	6%	14	698
BF				0%	0	0
Total SW				11%	23	1,207
Block Total:					220	11,350

Understory Stems/ha and Distribution							
WS		BS		BF			
		21	Clumped				

Eco Land Classification				Soils Summary			
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
	05	09		12	S10	5	Silty Clay
	Eco Site	51	53	08	S10	4	Silty Clay

Cover Type: H	IBWC Cnt: 3
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **9,637**
 SOFTWOOD VOLUME (m3): **1,147**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Feature	Width (m)	Details
1	Flood	MFZ-50	Located along the W and SW sides. Variable MFZ to 50m buffer. Harvest as shown on map.
2	Stream	15	Located along the NW side. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **413** to **619** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is in the Forestry Demo site boundary. Harvest plan has been approved by the Forestry Demo site administration.
 Maintain a max of 10 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Maintain structure along IBWC's located near plots 5, 8 and 22.
 Keep equipment and debris off hydro right of way located along the E side.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2029

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **9/24/21**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

No concerns.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: EAF-006	Twp & Rge: t34r25w	Cut Block Size: 32.8 ha
OPERATING AREA : East Favel	Ownership: Open Crown	Mapsheet: 360575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA		21.3	28	46%	103	3,392
BA		14.5	24	3%	7	237
WB		15.7	25	12%	26	863
Total HW				61%	137	4,492
WS	97	19.8	31	5%	11	364
BS		14.6	20	12%	26	864
JP	98	20.4	31	22%	50	1,635
BF				0%	0	0
Total SW				39%	87	2,863
Block Total:					224	7,355

Understory Stems/ha and Distribution					
WS		BS		BF	
29	Clumped	114	Uniform		

Eco Land Classification				Soils Summary			
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
	08	05	09	07	S1	1	Loamy Sand
	Eco Site: 22						

Cover Type: N	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 4,268
 SOFTWOOD VOLUME (m3): 2,719

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on the N side. Wetlands are expanding. Structure will be maintained. Harvest as shown on map.
2	Stream	75	West Favel River located on the S side. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **263** to **394** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain a max of 6 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Keep debris off hydro line located on the W side.
 Keep equipment and debris out of harvested areas located on the E and SW portions of the block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **N**

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2024	Sp	BS	1600	13680

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Regeneration	First	2034

RENEWAL COMMENTS/ISSUES:

West and East side of BLOCK BEING PLANTED, ensure ATV access and landings free of debris for the helicopter.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/30/20
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>No concerns.</p>	<div style="text-align: right;"><input checked="" type="checkbox"/></div>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: EAF-008	Twp & Rge: t34r25w	Cut Block Size: 48.9 ha
OPERATING AREA : East Favel	Ownership: Open Crown	Mapsheets: 360575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	72	21.7	34	79%	153	7,467
BA		16.2	30	5%	9	461
WB	60	14.6	24	6%	11	556
Total HW				90%	173	8,484
WS	111	18.7	39	8%	16	765
BS		12.0	28	1%	1	62
JP	140	21.3	37	1%	3	132
BF				0%	0	0
Total SW				10%	20	959
Block Total:					193	9,443

Understory Stems/ha and Distribution					
WS		BS		BF	
150	Uniform				

Eco Land Classification	1st			2nd			3rd			
	V Type			Eco Site			Soils Summary			
	05			04			LFH(cm)	S-Type	Moisture	Surface Texture
	32						08	S5	2	Clay Loam

Cover Type: H	IBWC Cnt: 3
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 8,060
 SOFTWOOD VOLUME (m3): 911

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	50-100	East Favel River located on the E side. Variable 50 to 100m buffer. Harvest as shown on map.
2	Stream	15-30	Located on the W side. Variable 15 to 30m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **392** to **587** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain a max of 9 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Maintain structure along IBWC that runs through the block from between plots 7 and 10 to plot 12.
 Keep equipment and debris out of harvested areas located on the E side of the block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2029

RENEWAL COMMENTS/ISSUES:

Area of WS understory >500 stems/ha and <6m in height is located in the NE portion of the block (plot 21). Clumps of understory will be protected in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 9/24/21
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>No concerns.</p>	<div style="text-align: right;"><input checked="" type="checkbox"/></div>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: EAF-009	Twp & Rge: t34r25w	Cut Block Size: 28.6 ha
OPERATING AREA : East Favel	Ownership: Open Crown	Mapsheet: 360575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	93	23.3	41	67%	213	6,107
BA	88	20.2	38	4%	13	382
WB	85	17.9	31	7%	22	626
Total HW				78%	249	7,115
WS	106	19.4	47	4%	13	371
BS	102	22.0	36	15%	47	1,344
JP		25.8	30	3%	10	280
BF				0%	0	0
Total SW				22%	70	1,995
Block Total:					318	9,110

Understory Stems/ha and Distribution					
WS		BS		BF	
36	Clumped	43	Clumped		

Eco Land Classification	1st			2nd			3rd		
	V Type			Eco Site			Soils Summary		
	LFH(cm)	S-Type	Moisture	Surface Texture					
	08	09	05	08	S6	2	Silt Loam		
	33								

Cover Type: H	IBWC Cnt: 4
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 6,759
 SOFTWOOD VOLUME (m3): 1,895

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

1	Wetland	MFZ	Located along S side. Structure will be maintained. Harvest as shown on map.
2	River	50	East Favel River located along NE side. Harvest as shown on map.

NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **229** to **343** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel and blue-joint grass is present throughout the block. Prickly rose is present in small amounts.
 This block has relatively flat topography.
 Maintain shrub and treed structure around small open wetlands located in the centre and on the W half of the block.
 Maintain a max of 5 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Snags scattered throughout the block; maintain within WTP's where safe to do so.
 Keep equipment and debris out of harvested area on NW side of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2029

RENEWAL COMMENTS/ISSUES:

Area of BS understory >500 stems/ha and <6m in height is localized in the NW tip of the block (plot 13). Most of the BS in this plot is > 6m and will be harvested.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/19/07
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Ensure MFZ (S side) sufficient to break LOS to wetland and EAF-010. Windfirm concern with potential harvest of BS understory. Harvest EAF-009 and 010 before EAF-007.</p>	<p>Discussed. Comment not necessary as residual structure will break LOS and difficult access will limit potential hunting activity. Residual/leave block will protect any remaining BS understory. Blocks will be harvested in one season. Sequencing not required.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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East Favel - EAF-009



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: EAF-010	Twp & Rge: t34r25w	Cut Block Size: 9.1 ha
OPERATING AREA : East Favel	Ownership: Open Crown	Mapsheets: 360575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	83	20.7	27	45%	105	957
BA				0%	0	0
WB		17.0	26	7%	17	159
Total HW				52%	122	1,116
WS	85	19.5	41	3%	7	66
BS		17.6	21	36%	85	777
JP	108	18.2	26	8%	19	173
BF				0%	0	0
Total SW				48%	111	1,016
Block Total:					233	2,132

Understory Stems/ha and Distribution			
WS	BS	BF	
	17	Clumped	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type	09	29		04	S6	2	Sandy Loam
Eco Site	35						

Cover Type: N	IBWC Cnt: 1
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 1,053
 SOFTWOOD VOLUME (m3): 950

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3
Wetland	MFZ	Located on W side. Structure will be maintained. Harvest as shown on map.
River	50	East Favel River located along NE side. Harvest as shown on map.
Stream	30	Located along E side. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **73** to **110** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Prickly rose and beaked hazel are present in most of the block. Raspberry, thistle, blue-joint grass and fireweed are present in small amounts.
 This block has relatively flat topography. There is a small ravine running W to E in the center of the block.
 Maintain a max of 2 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Maintain some WS seed trees close to in block roads.
 Small stream shown on map will need to be crossed in one location. Snow and ice will be used to cross stream.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2024	Sp	BS	1600	5500
2024	Sp	JP	1600	2000

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/19/07
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

30 m RZ headwater area, stream on E and S side.
 Harvest EAF-009 and 010 before EAF-007.
 Maintain WS as seed trees.

Will make 30 m RZ from stream edge. Flag as shown on map.
 Blocks will be harvested in one season. Sequencing not required.
 Some WS seed trees close to in block roads will be maintained.

-
-
-

East Favel - EAF-010



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: EAF-016	Twp & Rge: t34r25w	Cut Block Size: 54.8 ha
OPERATING AREA : East Favel	Ownership: Open Crown	Mapsheet: 360575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	101	25.1	37	58%	129	7,048
BA		19.6	36	5%	10	546
WB		14.1	24	7%	15	836
Total HW				70%	154	8,430
WS	85	17.8	30	5%	10	572
BS	132	18.3	24	15%	32	1,768
JP	106	23.1	34	11%	25	1,350
BF				0%	0	0
Total SW				30%	67	3,690
Block Total:					221	12,120

Understory Stems/ha and Distribution					
WS		BS		BF	
7	Clumped	64	Clumped		

Eco Land Classification	1st			2nd			3rd		
	V Type	05	08	30					
	Eco Site	31							

Soils Summary			
LFH(cm)	S-Type	Moisture	Surface Texture
12	S6	2	Silty Clay Loam

Cover Type: N	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 8,009
 SOFTWOOD VOLUME (m3): 3,506

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ-50	Located on the E side. Variable MFZ to 50m buffer. Harvest as shown on map.
2	Wetland	MFZ	Located on the SE side. Structure will be maintained. Harvest as shown on map.
3	Stream	100+	Tributary of West Favel River located on the S side. Large riparian area. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **438** to **657** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain a max of 10 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Keep equipment and debris out of harvested area located on the E side of the block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **N**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2024	Sp	BS	1800	5040
2024	Sp	WS	1800	6480

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Regeneration	First	2034

RENEWAL COMMENTS/ISSUES:

Planting section on West side and Northwest side of block. Leave a helicopter landing on main road, no debris.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 9/24/21
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Since block to be planted by helicopter road closure should be done post harvest.</p>	<p>Road form shows access to be closed post harvest.</p>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: EAF-055	Twp & Rge: t35r25w	Cut Block Size: 101.5 ha
OPERATING AREA: East Favel	Ownership: Open Crown	Mapsheet: 360576
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	94	20.4	36	72%	118	11,935
BA	98	18.0	39	3%	4	419
WB	105	13.0	23	13%	22	2,211
Total HW				88%	143	14,565
WS	99	17.6	35	7%	11	1,107
BS		16.0	26	0%	0	44
JP	107	17.4	27	5%	7	760
BF				0%	0	0
Total SW				12%	19	1,911
Block Total:					162	16,476

Understory Stems/ha and Distribution					
WS		BS		BF	
31	Clumped	8	Clumped		

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	05	08	13
Eco Site			

LFH(cm)	S-Type	Moisture	Surface Texture
05	S5	2	Silty Clay
08	S5	2	Silty Clay
06	S5	2	Silty Sand

Cover Type: H	IBWC Cnt: 12
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 13,523
 SOFTWOOD VOLUME (m3): 1,766

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	50	Streams located on S, W and E sides. 50m or 5 m back from top of down slope whichever is greater. Harvest as shown on map.
2	Stream	50	Located on E, S and W sides. 50 m or 10 m back from top of down slope. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **812** to **1,218** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain shrub and tree cover along two small inblock watercourses located along SE side of block.

This block exceeds the 100 ha block size guideline. Patch retention, block shape and topography in block will break up line of sight within block. Actual harvested area will be less than the 102 ha planned area.

Incorporate WTP's around open grassy wet areas located in the N, centre W edge and SW parts of the block.

Maintain a max of 20 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.

Snags mainly concentrated in the N half and along the W edge of the block; maintain within WTP's where possible.

Some prior harvest of softwood on SW side of block.

Maintain 15m (7.5m each side) on IBWC's located in the N end of the block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/25/05
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Connect wet runs to break LOS. Bend road leave area to break LOS.</p> <p>Change to patch retention for clumped understory to break LOS.</p> <p>Access management plan required.</p>	<p>Discussed options. Will design more leave patches and some structure along some IBWC's.</p> <p>OK.</p> <p>OK.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: EAF-056	Twp & Rge: t35r25w	Cut Block Size: 64.0 ha
OPERATING AREA: East Favel	Ownership: Open Crown	Mapsheets: 360576
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	77	20.8	33	49%	112	7,199
BA		19.2	31	9%	20	1,301
WB		14.5	29	2%	6	361
Total HW				60%	138	8,861
WS	77	19.1	31	25%	58	3,725
BS		20.0	29	4%	10	614
JP	90	19.5	29	10%	24	1,518
BF				0%	0	0
Total SW				40%	91	5,857
Block Total:					230	14,718

Understory Stems/ha and Distribution					
WS		BS		BF	
190	Uniform			13	Clumped
Eco Land Classification			Soils Summary		
V Type			LFH(cm)	S-Type	Surface Texture
08	09	05	06	S5	Silty Clay
Eco Site			06	S5	2 Clay
Cover Type: N		IBWC Cnt: 6			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 8,291
 SOFTWOOD VOLUME (m3): 5,567

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	30	Located on the NW and NE sides of block. Harvest as shown on map.
2	Stream	30	Located on the SE and SW sides. 30m or 5 m back from top of down slope which ever is greater. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **512** to **768** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain a max of 13 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Snags scattered throughout the block; maintain within WTP's where possible.
 Maintain 15m (7.5m on each side) total retention on IBWC associated with crossing EAF-C07.
 Maintain shrub and tree structure along in block watercourses located far N half and SW edge of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Year	Action	Area (ha)	Alternate

Year	Season	Species	Density	Total
2023	Sp	BS	1600	12000
2023	Sp	JP	1600	7000
2023	Sp	WS	1600	51000

Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

Slash loading may be a concern within heavy spruce concentrations. Whole-tree processing of spruce is recommend.

Areas of WS understory >500 stems/ha and <6m in height are localized in the central portion of the block (plots 16, 27 and 28). These areas will use designated skid trails or be left unharvested. Joint MC and LP inspection prior to harvest in these areas to determine understory protection strategies.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/25/05
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Intensive strategy to use designated skid trails for protection and L of S. 15m total retention on IBWC associated with crossing C07. 30m treed buffer.</p>	<p>OK. OK. OK.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: EAF-057	Twp & Rge: t35r24w	Cut Block Size: 119.8 ha
OPERATING AREA : East Favel	Ownership: Open Crown	Mapsheet: 370576
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	94	20.4	32	54%	112	13,405
BA		18.6	29	8%	17	2,021
WB		15.6	23	13%	27	3,181
Total HW				75%	155	18,607
WS	109	19.0	37	5%	9	1,131
BS	76	17.9	22	7%	15	1,749
JP	101	19.8	29	13%	27	3,261
BF				0%	0	0
Total SW				25%	51	6,141
Block Total:					207	24,748

Understory Stems/ha and Distribution					
WS		BS		BF	
26	Clumped	48	Clumped		

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	05	09	17
Eco Site			

LFH(cm)	S-Type	Moisture	Surface Texture
12	S6	2	Silty Clay
08	S6	2	Loam
12	S3	2	Silty Clay

Cover Type: H	IBWC Cnt: 10
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 17,677
 SOFTWOOD VOLUME (m3): 5,835

HARVEST SEASON

- ALL SEASON
 FROZEN
 DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
 SELECTION
 SEED TREE
 SALVAGE
 SHELTERWOOD
 UNDERSTOREY PROTECTION
 AVOIDANCE
 PATCH RETENTION
 DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
 PILE & BURN
 WLF DEBRIS PILE
 WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3
Flood	MFZ	Located on NW side. Finger into block is flood. Harvest as shown on map with MFZ along edge.
IBWC	5	Located in SW finger of block. Flag as shown on map.
Stream	30	Located on E and W sides. 30m or 5m back from top of downslope whichever is greater. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **958** to **1,438** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Area has been added to this block on the north side to capture trapped wood. Approximately 27.3 hectares has been added. The volumes shown reflect this.

Maintain a max of 23 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.

Snags scattered throughout the block, maintain within WTP's where possible.

Maintain 15m (7.5m each side) total retention along IBWC associated with crossing EAF-C18.

Maintain shrub and tree structure along several seasonal streams located throughout the block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: EAF-059	Twp & Rge: t35r25w	Cut Block Size: 120.6 ha
OPERATING AREA : East Favel	Ownership: Open Crown	Mapsheet: 360576
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **19,535**
 SOFTWOOD VOLUME (m3): **2,532**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	15-50	Godin Creek located on the W side. Variable 15 to 50m buffer. Harvest as shown on map.
2	Wetland	15-50	Located on N side. Variable 15 to 50m buffer. Harvest as shown on map.
3	Stream	15-30	Located on E side. Variable 15 to 30m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **965** to **1,447** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. It will be surveyed in 2020. The volume information is based on surveyed blocks in the area.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2029

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: EAF-104	Twp & Rge: t35r25w	Cut Block Size: 43.2 ha
OPERATING AREA : East Favel	Ownership: Open Crown	Mapsheet: 360575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **6,914**
 SOFTWOOD VOLUME (m3): **907**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	MFZ-15	Located on the W side. Variable MFZ to 15m buffer. Harvest as shown on map.
2	Wetland	MFZ	Located on the N side. Structure will be maintained. Harvest as shown on map.
3	Stream	15-50	Located on the E side. Variable 15 to 50m bufer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **346** to **519** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2029

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: EAF-829	Twp & Rge: t34r25w	Cut Block Size: 40.6 ha
OPERATING AREA : East Favel	Ownership: Open Crown	Mapsheet: 360575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	83	24.0	37	61%	172	6,992
BA		21.3	33	2%	5	200
WB		20.2	35	2%	6	239
Total HW				64%	183	7,431
WS	117	26.3	43	5%	14	561
BS	107	16.5	22	21%	61	2,470
JP	94	23.5	30	9%	27	1,081
BF				0%	0	0
Total SW				36%	101	4,112
Block Total:					284	11,543

Understory Stems/ha and Distribution							
WS		BS		BF			
10	Clumped	230	Uniform				
Eco Land Classification			Soils Summary				
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
	17	13	14	06	S10	4	Sandy Clay Loam
Eco Site	52	24	2	05	S10	2	Sandy Clay Loam
				08	S5	2	Silty Clay
Cover Type: N		IBWC Cnt: 0					

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder/SPL

HARDWOOD VOLUME (m3): 7,232
 SOFTWOOD VOLUME (m3): 3,906

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	MFZ-30	Located on the W and NW sides. MFZ to 30m buffer. Some blow down along stream. Harvest as shown on map.
2	Wetland	MFZ	Located between two main portions of block. Structure will be maintained. Harvest as shown on map.
3	Wetland	MFZ	Located on N side of block. Structure will be maintained. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **325** to **487** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel, raspberry, rose, alder and blue-joint grass are present in the block.
 This block has moderately undulating topography.
 Maintain a maximum of 8 WDP approximately 30-70m from the block edge, and near riparian areas and/or adjacent softwood stands where possible.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	1600	9600
2023	Sp	WS	1600	2880

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

Area of BS understory >500 stems/ha and <6m in height is located in the S portion of the block (plot 1). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

BLOCK BEING PLANTED
 Ensure road closure will accommodate ATV access

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/30/15
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>30m RZ on trib of W Favel River. Reduce to MFZ where unhealthy or BD. Need alternate crossing option to snow and ice (back up plan). Require crossing information for access into N part of block.</p>	<p>MFZ to 30m RZ. More RZ where there is less riparian area. Will put more towards S end and incorporate with topography. No viable alternative. Culvert may be installed with snow and ice to maintain flow if needed. Crossing will be snow and ice.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: EAF-834	Twp & Rge: t34r25w	Cut Block Size: 17.3 ha
OPERATING AREA: East Favel	Ownership: Open Crown	Mapsheets: 360575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	83	20.7	27	51%	126	2,185
BA				0%	0	0
WB				0%	0	0
Total HW				51%	126	2,185
WS	103	19.3	25	13%	32	550
BS				0%	0	0
JP	89	20.2	28	36%	87	1,513
BF				0%	0	0
Total SW				49%	119	2,063
Block Total:					245	4,248

Understory Stems/ha and Distribution					
WS		BS		BF	
400	Uniform				

Eco Land Classification	1st			2nd			3rd		
	Soils Summary								
	LFH(cm)	S-Type	Moisture	Surface Texture					
V Type	30	16	08	07	S5	2	Silt Loam		
Eco Site	23								

Cover Type: N	IBWC Cnt: 1
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder/SPL

HARDWOOD VOLUME (m3): **2,075**
 SOFTWOOD VOLUME (m3): **1,960**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ-50	Located on the W side. Variable MFZ to 50m buffer. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **138** to **208** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Some areas of blowdown in block. Merchantable trees will be salvaged if possible.
 Maintain a max of 3 WDP's approximately 30-70 m from block edge and where possible adjacent to swd stands outside of block.
 Maintain structure along IBWC located near plot 8.
 Keep equipment and debris out of harvested area located on the E side of the block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	WS	1600	7920

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

Planting W side of block

Ensure an open spot with no debris is available for the helicopter to land, ATV access on inblock roads.

Areas of WS understory >500 stems/ha and <6m in height are located in the central portion of the block (plots 2 and 6). Clumps of understory will be protected in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/18/19
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Add WLDP.</p>	<p>Agreed.</p>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: EAF-835	Twp & Rge: t34r25w	Cut Block Size: 38.7 ha
OPERATING AREA : East Favel	Ownership: Open Crown	Mapsheet: 360575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	79	22.7	34	36%	87	3,362
BA		17.5	26	3%	7	278
WB				0%	0	0
Total HW				39%	94	3,640
WS	52	13.7	21	4%	11	408
BS	110	15.4	19	29%	71	2,736
JP		20.3	28	27%	66	2,563
BF				0%	0	0
Total SW				61%	148	5,707
Block Total:					242	9,347

Understory Stems/ha and Distribution						
WS		BS		BF		
60	Clumped	240	Uniform			
Eco Land Classification			Soils Summary			
V Type			LFH(cm)	S-Type	Moisture	Surface Texture
1st	2nd	3rd	06	S3	2	Sandy Loam
36	53		06	S10	5	Clay Loam
Cover Type: M		IBWC Cnt: 1				

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder/SPL

HARDWOOD VOLUME (m3): **3,458**
 SOFTWOOD VOLUME (m3): **5,422**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	30-50	Located on E side. Variable 30 to 50m buffer. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **309** to **464** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

- Maintain a minimum of 7 WDP's within the block approximately 30-70 m from block edge.
- Maintain structure along IBWC located near plot 10.
- Whole tree logging for spruce only. Return tops and limbs to stump.
- Approximately 7.4 hectares of this block was harvested in 2018-19. The volumes shown indicated this.
- Keep equipment and debris out of harvested areas located on the W and SW sides of the block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: M

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	1800	44640

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2034

RENEWAL COMMENTS/ISSUES:

Road closure to accommodate ATV access for planting.

Area of WS understory >500 stems/ha and <6m in height is located in the E side of the block (plot 3). Clumps of understory will be protected in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 11/11/16
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Ensure suitable amount of structure on IBWC for windfirmness. MFZ to 30.</p> <p>30 m minimum buffer on West Favel River @ NE tip.</p> <p>Whole tree logging for spruce only. Return to stump not pile and burn.</p>	<p>Topography will take care of LOS. MFZ.</p> <p>Agreed. Will edit block. Most is already at or more than 30m.</p> <p>Agreed. Will add to prescription.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
--	---	---



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: EAF-836	Twp & Rge: t34r25w	Cut Block Size: 20.5 ha
OPERATING AREA: East Favel	Ownership: Open Crown	Mapsheets: 360575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	55	20.3	31	69%	124	2,535
BA		17.5	30	10%	19	380
WB		19.5	24	3%	6	116
Total HW				82%	148	3,031
WS	44	17.6	28	9%	17	348
BS	79	16.5	26	1%	2	41
JP		21.0	29	7%	12	254
BF				0%	0	0
Total SW				18%	31	643
Block Total:					179	3,674

Understory Stems/ha and Distribution					
WS		BS		BF	
33	Clumped				

Eco Land Classification	1st			2nd			3rd		
	V Type	08	05						
	Eco Site	22							

Soils Summary			
LFH(cm)	S-Type	Moisture	Surface Texture
05	S3	2	Silty Sand

Cover Type: H	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder/SPL

HARDWOOD VOLUME (m3): **2,879**
 SOFTWOOD VOLUME (m3): **612**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	30-50	West Favel River located on the N side. Variable 30 to 50m buffer. Harvest as shown on map.
2	Wetland	15-30	Located on the W side. Variable 15 to 30m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **164** to **246** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Area of blow down in the central portion of the block. Merchantable trees will be salvaged if possible.
 Maintain a max of 4 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Keep debris off hydro line located on the E side.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/30/20
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Confirm name of river on N side. E or W? Seems in conflict from description in EAF-006.

It is the West Favel River. Will change on prescription.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: EAF-839	Twp & Rge: t34r25w	Cut Block Size: 20.9 ha
OPERATING AREA : East Favel	Ownership: Open Crown	Mapsheet: 360575
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	80	20.7	32	84%	178	3,712
BA		18.3	29	11%	22	463
WB		12.0	16	0%	1	15
Total HW				95%	201	4,190
WS	80	13.8	27	3%	5	111
BS	104	18.8	25	2%	5	101
JP				0%	0	0
BF				0%	0	0
Total SW				5%	10	212
Block Total:					211	4,402

Understory Stems/ha and Distribution					
WS		BS		BF	
40	Clumped			380	Uniform

Eco Land Classification	1st			2nd			3rd		
	V Type	08	09	13					
	Eco Site	33							

Soils Summary			
LFH(cm)	S-Type	Moisture	Surface Texture
08	S5	2	Clay Loam

Cover Type: H	IBWC Cnt: 2
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder/SPL

HARDWOOD VOLUME (m3): **3,980**
 SOFTWOOD VOLUME (m3): **201**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **167** to **250** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain structure along IBWC's located near plots 7 and 10.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 10/18/19
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

No concerns.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: EAF-844	Twp & Rge: t35r24w	Cut Block Size: 97.3 ha
OPERATING AREA: East Favel	Ownership: Open Crown	Mapsheet: 370576
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	103	23.2	41	27%	61	5,970
BA		20.4	35	5%	12	1,179
WB	73	18.4	31	13%	29	2,844
Total HW				45%	103	9,993
WS	93	21.6	38	36%	82	7,980
BS	143	18.3	25	14%	33	3,218
JP	107	20.7	30	5%	11	1,086
BF				0%	0	0
Total SW				55%	126	12,284
Block Total:					229	22,277

Understory Stems/ha and Distribution					
WS		BS		BF	
95	Clumped	12	Clumped	86	Clumped

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	13	08	17
Eco Site	33	62	36

LFH(cm)	S-Type	Moisture	Surface Texture
06	S5	2	Silty Clay Loam
04	S6	2	Sandy Clay
08	S12F	2	Silt Loam
08	S5	2	Silty Clay Loam

Cover Type: M	IBWC Cnt: 6
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 9,287
 SOFTWOOD VOLUME (m3): 11,524

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	MFZ	Intermittent stream located on S side. Structure will be maintained. Harvest as shown on map.
2	Flood	MFZ	Located on W side. Structure will be maintained. Harvest as shown on map.
3	Stream	MFZ	Intermittent stream located on E side. Joint inspection MC/SPL for strategy.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **778** to **1,168** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block will be harvested at same time as blocks EAF-055 to 057.
 Incorporate WTP's around open wet grassy and alder areas located in the SE half and N end of the block.
 Maintain a maximum of 19 wildlife debris piles no farther than 75 m and no closer than 30 m from stand edge to promote prey habitat for marten.
 Snags mainly concentrated up the centre and along S edge of the block; maintain within WTP's where safe to do so.
 Maintain structure along IBWC's located in center of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: M

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	1600	20000
2023	Sp	JP	1600	10000
2023	Sp	WS	1600	75000

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

WTP will be confined to only the portions of the block with dense concentrations of merchantable spruce and/or spruce understorey trees.
 Areas of WS understorey >500 stems/ha and <6m in height are localized in the central portion of the block (plots 44 and 31). These areas will use designated skid trails or be left unharvested. Joint MC and LP inspection prior to harvest in these areas to determine understorey protection strategies.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/23/06
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Justification for whole tree logging. Any location except high WS US.	Associated with high density WS understorey and dense spruce areas. Determine location at time of harvest. Require debris management prescription.	<input checked="" type="checkbox"/>
Crossing info for IBWC N end/center, extend to N edge.	May not be any drainage (not identified on PHS map). If existing will be crossed with snow and ice and structure retained.	<input checked="" type="checkbox"/>
25% retention to 30m variable buffer on east side.	Determine strategy with joint site inspection with MC biologist.	<input checked="" type="checkbox"/>
Require WS understorey map.	Reviewed at mitigation. Leave as WLTP. Will provide a copy for file.	<input checked="" type="checkbox"/>
Retain 15m structure on E side of wetland on SW side.	OK.	<input checked="" type="checkbox"/>
Identify IBWC on E tip.	Low wet area to be protected.	<input checked="" type="checkbox"/>
Check off WLDP.	OK.	<input checked="" type="checkbox"/>

East Favel - EAF-844



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Integrated Operations by Operating Area

Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 10

Ethelbert

ETH-003	79.73 Hectares			2022 Harvest
HW Allocation	11,292 m3		LP	
SW Allocation	31 m3		SPL	
ETH-L26	60.79 Hectares			2023 Contingency
HW Allocation	9,119 m3		LP	
SW Allocation	0 m3		SPL	

Ethelbert Operating Area

Route H (RTH)

Ethelbert (ETH)

Grand Plains (GRP)

ETH-010

ETH-012

ETH-004

ETH-016

ETH-015

ETH-003

ETH-C05

ETH-L26

Legend

Proposed Crossings

- Proposed Bridge
- Proposed Crossing, Other
- Proposed Crossing, Stream
- Proposed Culvert, Other
- Proposed Culvert, Stream

Harvest Areas

- 2022 - Harvest
- 2022 - Contingency
- 2023 - Harvest
- 2023 - Contingency
- 2024-2026 - Harvest

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.

Roads

Ethelbert

ETH-6A

Additional Road Development Comments

This road accesses block ETH-003.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.5	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Slash and Debris	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This road accesses an existing field and will remain open. The in block road will be closed.



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: ETH-C05

Ownership: LP

Operating Area: Ethelbert

Contingency Crossing:

UTM Northing: 5692227

UTM Easting: 389971

Stream Type: Permanent

Land Description: NW1-28-23-W

Watercourse Name: Mink Creek

Crossing Inspection Date: 18-June-2018

Channel Width (m): 1.5

Stream Assessment Required:

Water Depth (m): 0.1

Stream Assessment Complete:

Road Name: ETH-6A

Site Description:

Stream crosses road at this location. Substrate is cobble, gravel, sand and silt. Located in mature hardwood stand. Currently a ford crossing.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:

Crossing Duration: Years

Remove after Renewal Activities:




Installation & Removal Notes:

After harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions.

A minimum 24 inch culvert is required.

After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING ETH-C05

 A photograph showing a dirt path crossing a small stream. The path is made of loose soil and gravel, and the stream is shallow with clear water. The surrounding area is lush with green grass and trees.	<p>Across</p>
 A photograph showing a view looking upstream in a stream. The water is shallow and clear, with a sandy bottom. The banks are covered in dense green vegetation, including tall grasses and trees.	<p>Upstream</p>
 A photograph showing a view looking downstream in a stream. The water is shallow and clear, with a sandy bottom. The banks are covered in dense green vegetation, including tall grasses and trees.	<p>Downstream</p>



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: ETH-003	Twp & Rge: t28r23w	Cut Block Size: 79.7 ha
OPERATING AREA: Ethelbert	Ownership: Open Crown	Mapsheets: 380569
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	66	20.8	27	84%	124	9,905
BA	66	19.1	25	15%	23	1,800
WB		16.5	16	1%	1	75
Total HW				100%	148	11,780
WS		12.0	36	0%	0	34
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	34
Block Total:					148	11,814

Understory Stems/ha and Distribution					
WS		BS		BF	
44	Clumped				

Eco Land Classification	1st			2nd			3rd		
	V Type			Eco Site			Soils Summary		
	LFH(cm)	S-Type	Moisture	Surface Texture					
	05	08	09	01	S2	2	Sandy Loam		
	06	S5	2	Loam					
	12	S3	2	Loam					

Cover Type: H	IBWC Cnt: 3
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 11,292
 SOFTWOOD VOLUME (m3): 31

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3
Flood	MFZ	Located on the W side. Structure will be maintained. Harvest as shown on map.
Stream	30-50	Located on the N side. Variable 30 to 50m buffer. Harvest as shown on map.
Stream	30-100	Mink Creek located on the S side. Variable 30 to 100+ m. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 638 to 957 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is on the SW11, SE11, NW2 and NE2-28-23W. These quarters are all coded A/C except part of NE2 which is coded A/C/8g.
 Flood on W sided is expanding and flooding portions of the block.
 Maintain structure along IBWC located near plots 33 to 21 in the N portion of the block and plots 16 to 7 in the central portion of the block.
 Maintain WS in windfirm patches for seed trees.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2027

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **11/16/18**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Discuss need for more buffer on Mink Creek and slope in block. Minimum 30m RZ on creek N side. Leave WS in wind firm patches.</p>	<p>PHS shows little slope in the block. Will be flagged as drawn. Agreed. Agreed.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
--	---	---



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: ETH-L26	Twp & Rge: t28r21w	Cut Block Size: 60.8 ha
OPERATING AREA : Ethelbert	Ownership: Open Crown	Mapsheets: 400569
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 9,119
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 486 to 729 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 This quarter is NE17-28-21W which is coded A/6b.

Ethelbert



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Ethelbert - ETH-L26



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Integrated Operations by Operating Area

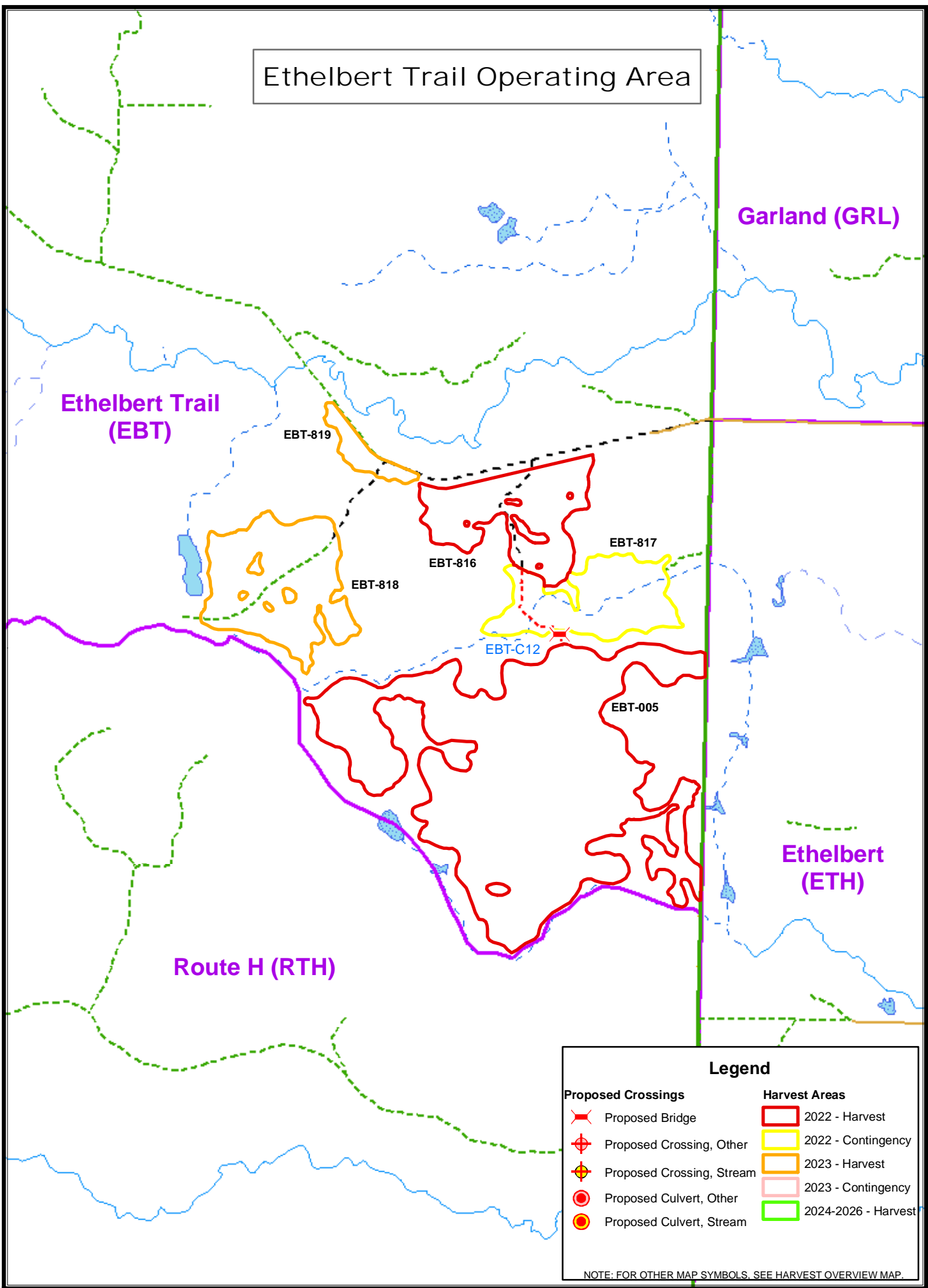
Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 13

Ethelbert Trail

EBT-005	171.59 Hectares		2022 Harvest
HW Allocation	23,645 m3	LP	
SW Allocation	1,695 m3	SPL	
EBT-816	34.01 Hectares		2022 Harvest
HW Allocation	969 m3	Quota Holder/LP	
SW Allocation	940 m3	Quota Holder	
EBT-817	31.79 Hectares		2022 Contingency
HW Allocation	3,586 m3	Quota Holder/LP	
SW Allocation	322 m3	Quota Holder	
EBT-818	44.73 Hectares		2023 Harvest
HW Allocation	4,753 m3	Quota Holder/LP	
SW Allocation	3,099 m3	Quota Holder	
EBT-819	6.29 Hectares		2023 Harvest
HW Allocation	733 m3	Quota Holder/LP	
SW Allocation	153 m3	Quota Holder	

Ethelbert Trail Operating Area



Legend

Proposed Crossings

- Proposed Bridge
- Proposed Crossing, Other
- Proposed Crossing, Stream
- Proposed Culvert, Other
- Proposed Culvert, Stream

Harvest Areas

- 2022 - Harvest
- 2022 - Contingency
- 2023 - Harvest
- 2023 - Contingency
- 2024-2026 - Harvest

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.

Roads

Ethelbert Trail

EBT-1A (existing)

Additional Road Development Comments

This road is part of the Ethelbert Trail. It is part of the access to blocks EBT-005, 816, 817, 818 and 819.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.9	20	8	Dry/Frozen	50

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
SPL/Quota Holder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This is an existing trail and will remain open.

EBT-1A-3A (existing)

Additional Road Development Comments

This road accesses block EBT-818.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.5	20	8	Dry/Frozen	5

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
Dudar/LP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This is an existing trail which will remain open for future harvest. A berm will be placed at the start of the road and the first 50m will be closed with debris. ATV access will be maintained.

EBT-1A-4A (existing)

Additional Road Development Comments

This road accesses bloc EBT-817 and is part of the access to block EBT-005. This road accesses the block through EBT-816.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.7	20	8	Dry/Frozen	50

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
Quota Holder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with slash and debris for the first 50m.

EBT-1A-4B

Additional Road Development Comments

This road accesses block EBT-005 through blocks EBT-816 and 817.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.5	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with slash and debris at selected locations. Selected locations include landings and other areas debris accumulates. Crossing EBT-C12 will be removed restricting access.



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: **EBT-C12**

Ownership: **LP**

Operating Area: Ethelbert Trail
 UTM Northing: 5709505
 Stream Type: Permanent
 Watercourse Name: Ethelbert Creek
 Channel Width (m): 1.5
 Water Depth (m): 0.10
 Road Name: EBT-1-4B

Contingency Crossing:
 UTM Easting: 389541
 Land Description: SW35-29-23W
 Crossing Inspection Date: 29-April-2020
 Stream Assessment Required:
 Stream Assessment Complete:

Site Description:

Crossing is on a permanent stream in a hardwood stand. The banks are 1.5m. The substrate is silt, sand, cobble, gravel and rock. Bait fish were observed at the crossing location.

General Considerations:

LP will follow DFO Operational Statement for clear span bridges.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:

01 September,2022 to 01 September,2023

Permanent Crossing:

Proposed Install Date:

Crossing Duration: Years

Remove after Renewal Activities:

Installation & Removal Notes:

A minimum 45 foot bridge is required.

After harvesting activities are completed the portable bridge will be removed and the road approaches will be recontoured to a near natural condition. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING EBT-C12



Across



Upstream



Downstream



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: EBT-005	Twp & Rge: t29r23w	Cut Block Size: 171.6 ha
OPERATING AREA: Ethelbert Trail	Ownership: Open Crown	Mapsheet: 380570
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	99	20.7	31	75%	116	19,910
BA	96	19.4	30	8%	12	2,072
WB		17.8	29	11%	17	2,917
Total HW				93%	145	24,899
WS	106	16.3	22	5%	8	1,374
BS				0%	0	0
JP	109	19.4	36	1%	2	370
BF		12.0	14	0%	0	40
Total SW				7%	10	1,784
Block Total:					156	26,683

Understory Stems/ha and Distribution					
WS		BS		BF	
31	Clumped			23	Clumped
Eco Land Classification			Soils Summary		
V Type			LFH(cm)	S-Type	Moisture
1st	2nd	3rd	04	S4	2
05	08	13	Surface Texture		
Eco Site			Clay Loam		
22					
Cover Type: H		IBWC Cnt: 2			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 23,645
 SOFTWOOD VOLUME (m3): 1,695

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	MFZ-50	Located on S and SW side. Variable MFZ to 50m buffer. Harvest as shown on map.
2	Stream	30-100	Located on the N side. Variable 30 to 100m+ buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **1,373** to **2,059** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain structure on IBWC located in center of block. Runs from plot 49 to 44.
 Maintain some juvenile WS as seed trees in wind firm patches.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2026

RENEWAL COMMENTS/ISSUES:

Area of BF understory >500 stems/ha and <6m in height is located on the east side of the block (Plot 35). This area will be harvested with concentrated clumps of BF being maintained.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **10/18/19**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Large block, concerned about LOS being met. Pre-plan LOS leave areas desired.</p> <p>Retain some mature WS in patches for seed trees to maintain WS % in renewal. EBT-1A-3B-1A crossing information missing.</p> <p>Significant WB content. Would like to see it utilized.</p> <p>30m treed buffer on N creek.</p>	<p>Pre-planned leaves are less effective than leaves determined at time of operations in relation to stand composition and wind firmness. Will follow standard procedure to ensure LOS is met.</p> <p>In the past we've left big sailors that have blown over. We'll leave 20-40 year-old WS in wind firm patches to provide seed source. Crossing information will be supplied with work permit or during 2021 mitigation.</p> <p>Will direct quota holder to harvest block or claim WB if interested.</p> <p>Already shown as 30 to 100m buffer.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: EBT-816	Twp & Rge: t29r23w	Cut Block Size: 34.0 ha
OPERATING AREA: Ethelbert Trail	Ownership: Open Crown	Mapsheets: 380571
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	77	18.4	29	34%	69	2,342
BA		18.8	25	13%	26	884
WB		15.6	22	4%	7	248
Total HW				51%	102	3,474
WS	102	19.1	32	6%	13	429
BS		18.2	20	12%	25	852
JP	78	18.0	28	30%	61	2,083
BF				0%	0	0
Total SW				49%	99	3,364
Block Total:					201	6,838

Understory Stems/ha and Distribution					
WS		BS		BF	
150	Clumped			7	Clumped

Eco Land Classification			Soils Summary				
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
		05	15	09	10	S5	2

Eco Site	33
Cover Type:	N
IBWC Cnt:	3

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder

HARDWOOD VOLUME (m3): **969**
 SOFTWOOD VOLUME (m3): **940**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

1	Roads	50	Ethelbert Trail located along the N side. Harvest as shown on map.
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **272** to **408** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel is present throughout the block. Blue-joint grass and prickly rose is present in small amounts.
 This block has relatively flat topography.
 Area relatively flat; ensure WTP's of varying sizes are maintained within the N half of the block to minimize L.O.S.
 Maintain shrub and treed structure around open wet areas located in the SE corner, S tip and E edge of the block.
 Maintain a maximum of 6 wildlife debris piles approximately 30 -75 m away from the block edge adjacent to softwood stands located outside the W and E edges of the block.
 This block should provide five years harvest of softwood and hardwood for the quota holder.
 Annual harvest areas to be accessed by spur roads from Ethelbert Trail. No connecting loop roads to be established.
 This block was partially harvested in 2015/16 and 2016/17. The area harvested was approximately 14.4 hectares. There should be about 20 hectares remaining but there is actually only about 10 hectares of merchantable area remaining.

Ethelbert Trail



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: EBT-817	Twp & Rge: t29r23w	Cut Block Size: 31.8 ha
OPERATING AREA: Ethelbert Trail	Ownership: Open Crown	Mapsheet: 380570
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	79	19.4	30	68%	88	2,803
BA	72	18.0	31	19%	25	779
WB		16.4	26	5%	6	193
Total HW				92%	119	3,775
WS	83	20.2	42	5%	6	194
BS				0%	0	0
JP	100	22.0	32	4%	5	145
BF				0%	0	0
Total SW				8%	11	339
Block Total:					129	4,114

Understory Stems/ha and Distribution					
WS		BS		BF	
47	Clumped			6	Clumped

Eco Land Classification	1st			2nd			3rd			
	V Type			Eco Site			Soils Summary			
	LFH(cm)	S-Type	Moisture	Surface Texture						
	05	15	08	04	S6	2	Silty Clay Loam			

Cover Type: H	IBWC Cnt: 4
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder

HARDWOOD VOLUME (m3): **3,586**
 SOFTWOOD VOLUME (m3): **322**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	MFZ	Located along S side. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **254** to **381** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel is present throughout the block. Willow and prickly rose are present in small amounts.
 This block has relatively flat topography.
 Stream is shown running through block. This stream is actually located along the S side of the block.
 Snags scattered throughout the block; maintain within WTP's where safe to do so.
 Maintain structure along IBWC located on S side of block.
 Quota holder will harvest approximately 25% (8 to 9 ha) of this block annually to obtain their hardwood quota. Some of their softwood quota will also be harvested in this block.
 Start harvest at back of block (west end) and work to the east.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

Area of WS understory >500 stems/ha and <6m in height is localized in one plot (17) in the N portion of the block. This area will use designated skid trails or be left unharvested. Joint MC and LP inspection prior to harvest in this area to determine understory protection strategies.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/19/07
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Clarify location of stream, 15m on S side. May require site insp.</p> <p>Access control at end of each harvest season. Close road at boundary.</p> <p>Limit crossing IBWC at SE side of block.</p> <p>Multi year harvest block. Start at back.</p> <p>15 m treed buffer on IBWC.</p>	<p>Stream location clarified. No buffer required on S side stream.</p> <p>Wet frozen access road only. This will limit access.</p> <p>Area east of the IBWC removed from the block. No crossing necessary.</p> <p>OK. Will add comment to prescription.</p> <p>Not required.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: EBT-818	Twp & Rge: t29r23w	Cut Block Size: 44.7 ha
OPERATING AREA : Ethelbert Trail	Ownership: Open Crown	Mapsheet: 380570
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	95	21.9	30	46%	85	3,786
BA		20.3	31	4%	7	306
WB		18.1	26	10%	19	855
Total HW				60%	111	4,947
WS		26.0	42	8%	15	665
BS	120	18.5	23	14%	26	1,153
JP		19.3	27	17%	32	1,434
BF				0%	0	0
Total SW				40%	73	3,252
Block Total:					183	8,199

Understory Stems/ha and Distribution

WS		BS		BF	
120	Clumped	750	Clumped	330	Uniform

Eco Land Classification

V Type	1st	2nd	3rd
	05	08	28
Eco Site	22	24	2

Soils Summary

LFH(cm)	S-Type	Moisture	Surface Texture
07	S5	2	Silty Sand
03	S10	3	Sandy Clay Loam
09	S7	6	Sandy Loam
07	S3	2	Sandy Clay Loam

Cover Type: **N** | IBWC Cnt: **0**

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **Quota Holder/LP**
 SOFTWOOD ALLOCATION: **Quota Holder**

HARDWOOD VOLUME (m3): **4,753**
 SOFTWOOD VOLUME (m3): **3,099**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ-50	Located on the W and NW sides. Variable MFZ to 50m buffer. Harvest as shown on map.
2	Stream	MFZ-100	Located on S side. Variable MFZ to 100m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **358** to **537** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain a maximum of 9 WDP approximately 30-70m from the block edge, and near riparian areas and/or adjacent softwood stands where possible.
 Maintain existing trails free of debris.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2024	Sp	BS	1600	17760
2024	Sp	WS	1600	4680

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Reforestation	First	2034

RENEWAL COMMENTS/ISSUES:

Leave NW road ATV access, NW part of the block is being planted.

Areas of WS understory >500 stems/ha and <6m in height are located in the E portion of the block (plots 7 & 17). Clumps of understory will be protected in patches.

Area of BF understory >500 stems/ha and <6m in height is located in the E portion of the block (Plot 11). This area will be harvested with concentrated clumps of BF being maintained.

Areas of BS understory >500 stems/ha and <6m in height are located in the N portion of the block (plots 13, 15 & 17). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 11/11/16
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Identify location of existing trails.</p> <p>Minimum 30m RZ on stream on S side.</p>	<p>Following existing trail to access block. Discussed location of other trails.</p> <p>Will add some RZ in the middle part of the block where there is less riparian.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
---	--	--



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: EBT-819	Twp & Rge: t29r23w	Cut Block Size: 6.3 ha
OPERATING AREA : Ethelbert Trail	Ownership: Open Crown	Mapsheet: 380571
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	65	19.9	30	51%	76	478
BA	74	18.4	30	26%	39	246
WB		18.0	22	5%	8	48
Total HW				83%	123	772
WS		19.5	32	2%	3	22
BS				0%	0	0
JP		18.5	29	15%	22	139
BF				0%	0	0
Total SW				17%	26	161
Block Total:					148	933

Understory Stems/ha and Distribution							
WS		BS		BF			
100	Uniform			25	Clumped		
Eco Land Classification			Soils Summary				
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
	08	01	05				
Eco Site							
Cover Type: H		IBWC Cnt: 0					

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder

HARDWOOD VOLUME (m3): **733**
 SOFTWOOD VOLUME (m3): **153**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **50 to 75** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Beaked hazel is present throughout the block. Alder is present in small amounts.
 This block has moderately sloping topography. Slope is towards the road.
 Keep existing Ethelbert Trail free of debris.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **10/18/19**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Skid to Ethelbert Trail?</p>	<p>Unsure what QH plans are. But agree that would be the better option. Will work with QH.</p>	<input checked="" type="checkbox"/>
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Ethelbert Trail - EBT-819



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Integrated Operations by Operating Area

Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 10

Garland

GRL-L13	47.82 Hectares		2023 Contingency
HW Allocation	7,173 m3	LP	
SW Allocation	0 m3	SPL	
GRL-L14	49.15 Hectares		2023 Contingency
HW Allocation	7,373 m3	LP	
SW Allocation	0 m3	SPL	
GRL-L15	43.01 Hectares		2023 Contingency
HW Allocation	6,452 m3	LP	
SW Allocation	0 m3	SPL	
GRL-L23	29.35 Hectares		2023 Contingency
HW Allocation	5,802 m3	LP	
SW Allocation	0 m3	SPL	
GRL-L24	23.37 Hectares		2023 Contingency
HW Allocation	3,506 m3	LP	
SW Allocation	0 m3	SPL	
GRL-L25	40.88 Hectares		2023 Contingency
HW Allocation	6,132 m3	LP	
SW Allocation	0 m3	SPL	
GRL-L26	44.39 Hectares		2023 Contingency
HW Allocation	7,632 m3	LP	
SW Allocation	0 m3	SPL	
GRL-L31	18.94 Hectares		2023 Contingency
HW Allocation	2,841 m3	LP	
SW Allocation	0 m3	SPL	
GRL-L32	29.98 Hectares		2023 Contingency
HW Allocation	4,497 m3	LP	
SW Allocation	0 m3	SPL	
GRL-L33	39.73 Hectares		2023 Contingency
HW Allocation	5,960 m3	LP	
SW Allocation	0 m3	SPL	
GRL-L34	51.18 Hectares		2023 Contingency
HW Allocation	7,677 m3	LP	
SW Allocation	0 m3	SPL	

Springwater Provincial Park
Recreational Development

Garland Operating Area

Sclater (SLT)

GRL-L26

GRL-L25

GRL-L24

GRL-L23

GRL-008

Point River
Wildlife Management Area

Garland (GRL)

GRL-L37

GRL-L36

GRL-L35

GRL-L38

GRL-L39

GRL-L40

Duck Mountain CP

GRL-L13

GRL-L32

GRL-L34

GRL-L14

GRL-L15

GRL-L31

GRL-L33

Ethelbert (ETH)

Dauphin &
Ethelbert CP

Dauphin &
Ethelbert CP

Legend

Proposed Crossings

- Proposed Bridge
- Proposed Crossing, Other
- Proposed Crossing, Stream
- Proposed Culvert, Other
- Proposed Culvert, Stream

Harvest Areas

- 2022 - Harvest
- 2022 - Contingency
- 2023 - Harvest
- 2023 - Contingency
- 2024-2026 - Harvest

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: GRL-L13	Twp & Rge: t30r19w	Cut Block Size: 47.8 ha
OPERATING AREA: Garland	Ownership: Open Crown	Mapsheets: 420571
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): **7,173**
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **383** to **574** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

All topping and limbing will be done at the landing.
 Block is on NW17-30-19W which is coded 2a. This allows for 49 ha development.
 The code for this quarter allows for 49 hectares development. This block is below the development code.
 Harvest permit was issued for this block in 2014 but the block was not cut.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **12/5/14**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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LP Swan Valley
 PO Box 998
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 Phone: 204-734-4102
 Fax: 204-734-3646

PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: GRL-L14	Twp & Rge: t30r19w	Cut Block Size: 49.2 ha
OPERATING AREA: Garland	Ownership: Open Crown	Mapsheets: 420571
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **7,373**
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **393** to **590** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Harvest permit was issued for this block in 2014 but the block was not cut.
 The code for this quarter allows for 49 hectares development. This block is at the development code.
 Block is on SW17-30-19W which is coded 2a. This allows for 49 ha development.
 All topping and limbing will be done at the landing.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **12/5/14**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: GRL-L15	Twp & Rge: t30r19w	Cut Block Size: 43.0 ha
OPERATING AREA: Garland	Ownership: Open Crown	Mapsheets: 420571
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type			
Eco Site			

Soils Summary	
LFH(cm)	S-Type

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **6,452**
 SOFTWOOD VOLUME (m3): **0**

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **344** to **516** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Harvest permit was issued for this block in 2014 but the block was not cut.
 The code for this quarter allows for 49 hectares development. This block is below the development code.
 Block is on SE17-30-19W which is coded 2a. This allows for 49 ha development.
 All topping and limbing will be done at the landing.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **12/5/14**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: GRL-L23	Twp & Rge: t31r22w	Cut Block Size: 29.4 ha
OPERATING AREA: Garland	Ownership: Open Crown	Mapsheets: 390572
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **5,802**
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **235** to **352** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is on the SE16-31-22 which is coded A/C/8a. The lease holder is D. Dejong.

Garland



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: GRL-L24	Twp & Rge: t31r22w	Cut Block Size: 23.4 ha
OPERATING AREA: Garland	Ownership: Open Crown	Mapsheets: 390572
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type			
Eco Site			

Soils Summary	
LFH(cm)	S-Type

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **3,506**
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **187** to **280** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is on the SW16-31-22 which is coded A/C/8a. The lease holder is E. Burdeny.

Garland



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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 Fax: 204-734-3646

PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: GRL-L25	Twp & Rge: t31r21w	Cut Block Size: 40.9 ha
OPERATING AREA: Garland	Ownership: Open Crown	Mapsheets: 400572
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **6,132**
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **327** to **491** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is on the SE29-31-21 which is coded A/C/6b. The lease holder is W. Shewchuk.

Garland



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: GRL-L26	Twp & Rge: t31r21w	Cut Block Size: 44.4 ha
OPERATING AREA: Garland	Ownership: Open Crown	Mapsheets: 400572
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **7,632**
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **355** to **533** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is on the NW29-31-21 which is coded A/C/6b. The lease holder is W. Shewchuk.

Garland



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 Fax: 204-734-3646

PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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 Phone: 204-734-4102
 Fax: 204-734-3646

PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: GRL-L31	Twp & Rge: t30r20w	Cut Block Size: 18.9 ha
OPERATING AREA: Garland	Ownership: Open Crown	Mapsheet: 410571
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): **2,841**
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **152** to **227** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This quarter is SW9-30-20 which is coded 6a.

Garland



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: GRL-L32	Twp & Rge: t30r20w	Cut Block Size: 30.0 ha
OPERATING AREA: Garland	Ownership: Open Crown	Mapsheets: 410571
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st			LFH(cm)		
2nd			S-Type		
3rd			Moisture		
V Type			Surface Texture		
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **4,497**
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **240** to **360** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This quarter is NW9-30-20W which is coded 6a.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: GRL-L33	Twp & Rge: t30r20w	Cut Block Size: 39.7 ha
OPERATING AREA: Garland	Ownership: Open Crown	Mapsheets: 410571
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **5,960**
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **318** to **477** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block is on SE30-30-20W which is coded 4a.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: GRL-L34	Twp & Rge: t30r20w	Cut Block Size: 51.2 ha
OPERATING AREA: Garland	Ownership: Open Crown	Mapsheets: 410571
LICENCE: FML 3	Management Unit: 10	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: **LP**
 SOFTWOOD ALLOCATION: **SPL**

HARDWOOD VOLUME (m3): **7,677**
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

0		
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NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately **409** to **614** trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This quarter is on NE9-30-20W which is coded 3a.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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Integrated Operations by Operating Area

Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 13

Island Lake

ISL-002	64.90 Hectares		2022 Harvest
HW Allocation	5,613 m3	LP	
SW Allocation	7,217 m3	SPL	
ISL-007	84.39 Hectares		2022 Harvest
HW Allocation	6,970 m3	LP	
SW Allocation	8,308 m3	SPL	
ISL-008	64.86 Hectares		2022 Harvest
HW Allocation	5,832 m3	LP	
SW Allocation	7,797 m3	SPL	
ISL-009	77.90 Hectares		2022 Harvest
HW Allocation	999 m3	LP	
SW Allocation	754 m3	SPL	
ISL-855	91.46 Hectares		2023 Contingency
HW Allocation	6,951 m3	LP	
SW Allocation	11,524 m3	SPL	
ISL-857	54.59 Hectares		2023 Contingency
HW Allocation	4,149 m3	LP	
SW Allocation	6,878 m3	SPL	
ISL-858	138.86 Hectares		2023 Contingency
HW Allocation	10,553 m3	LP	
SW Allocation	17,496 m3	SPL	
ISL-859	54.89 Hectares		2023 Contingency
HW Allocation	4,172 m3	LP	
SW Allocation	6,916 m3	SPL	
ISL-903	17.30 Hectares		2022 Contingency
HW Allocation	1,353 m3	Quota Holder/LP	
SW Allocation	35 m3	SPL	
ISL-905	1.93 Hectares		2022 Contingency
HW Allocation	135 m3	Quota Holder/LP	
SW Allocation	0 m3	SPL	
ISL-906	3.82 Hectares		2022 Contingency
HW Allocation	177 m3	Quota Holder/LP	
SW Allocation	0 m3	SPL	

Island Lake Operating Area

Duck Mountain Provincial Park
Recreational Development

Duck Mountain Provincial Park
Resource Management

Laurie Lake (LLK)

Singush Lake (SGL)

Route H
(RTH)

ISL-007
ISL-C14
ISL-C13
ISL-C12
ISL-C15

ISL-855

ISL-002

ISL-008

ISL-009

Island Lake
(ISL)

Valley River
(VLR)

ISL-857

ISL-C17

ISL-C18

ISL-858

ISL-859

ISL-904

ISL-905

ISL-906

ISL-903

ISL-846

ISL-866

ISL-864

ISL-018

ISL-861

ISL-862

ISL-019

ISL-016

ISL-870

ISL-865






ISL-869

Upper Dam (UPD)






Jackfish
Lake
(JFL)

Legend

Proposed Crossings

-  Proposed Bridge
-  Proposed Crossing, Other
-  Proposed Crossing, Stream
-  Proposed Culvert, Other
-  Proposed Culvert, Stream

Harvest Areas

-  2022 - Harvest
-  2022 - Contingency
-  2023 - Harvest
-  2023 - Contingency
-  2024-2026 - Harvest

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.

Internal Mitigation Comments

General

Operating Area	Concern	Manitoba	Action/Response
Island Lake	Parks	No hauling on weekends past Singush Lake. Delay hauling as late as possible in the year to avoid campers, hunters, etc.	Most hauling is in the fall/early winter from this area.
	Access Control	Where ATV access is to be left for renewal purposes, only one central access may be retained. No in block spur roads are to be left. A limited number of strategically distributed helicopter landing areas may be left on roads and landings. Access to be closed following completion of planting activities by no later than July 31, unless separate approval is applied for.	Agreed. Will determine on a site by site basis.

Site Specific

Block	Concern	Manitoba	Action/Response
ISL-002	Wildlife Furbearer	Need WLDP.	WLDP's already in prescription.
	Access Control	Minimal access to be left for planting. Not truck access. See Operating Area General Comment about planting access.	Agreed.
ISL-007	Wildlife Furbearer	Need WLDP.	WLDP's already in prescription.
	Wildlife Ungulate	Has adjacency been met with the bordering block? Is it a 2019 block? If not, a visual buffer will be needed between the blocks.	Unsure is adjacency is met. 30m buffer between this block and ISL-010 to the south.
	Access Control	Minimal access to be left for planting. Not truck access. See Operating Area General Comment about planting access.	Agreed.
ISL-008	Riparian Mgmt. - Wildlife	Increase the IBWC leave @ SW corner to make a wildlife corridor.	Agreed. Added approximately 15m buffer on each side of IBWC.
	Access Control	Minimal access to be left for planting. Not truck access. See Operating Area General Comment about planting access.	Agreed.
ISL-903	Terrestrial buffers - IRMT Discussion	Need buffer increased to at least 50 m treed, on PR 366 and the start of ISL Road. Manitoba to provide a diagram.	Will change buffer on 366 to a 50 m buffer.
		Due to time limitations, this will have to be discussed on a case by case basis, at the time of harvest.	Do not think a visual buffer on the ISL road between plots 4 and 7 will be possible. Need access to the block and room to operate.

ISL-905	Harvest Sequence	Postpone harvest until adjacency is met with ISL-903 and ISL-906. Perhaps this block could be harvested the same time as wood on the other side of the road?	This is a road buffer harvest to help with road drying. The block is only 1.9 ha's with wetland and previous harvest behind it. Would harvest block ISL-903, 905 and 906 together. All these blocks together are only 23 ha's.
		Due to time limitations, this will have to be discussed on a case by case basis, at the time of harvest.	Same as above.
		Due to time limitations, this will have to be discussed on a case by case basis, at the time of harvest.	Block is not wide enough to have a visual buffer along the entire block. LOS breaks can be left, to be determined at the time of harvest.
ISL-906	Terrestrial buffers - IRMT Discussion	Need buffer increased to at least 50 m treed, on ISL Road. Make two short spur roads with turn arounds to land wood. Wood not to be skidded to ISL Road. Manitoba to provide a diagram.	This is a road buffer harvest with previous harvest behind it. The block is 60 to 140m wide and only 3.8 ha's. Narrow blocks were designed along roads to capture this wood instead of leaving this wood as permanent buffers. The block behind the buffer harvest was either cut before the buffer harvest block or after it had reached adjacency. Cannot leave 50m buffer on a buffer harvest. Spur roads are impractical on these small buffer blocks.
		Due to time limitations, this will have to be discussed on a case by case basis, at the time of harvest.	Block is not wide enough to have a visual buffer along the entire block. LOS breaks can be left, to be determined at the time of harvest.
ISL-855, ISL-857, ISL-858, ISL-859	Not Surveyed	Will mitigate after survey.	
ISL-009	No concerns	Mitigated less than five years ago.	

Roads

Island Lake

ISL-1A to 1H (existing)

Additional Road Development Comments

These roads are part of the access to blocks ISL-002, 007 to 009, 855, 857, 858, 859, 903, 905 and 906.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
11.3	20	8	Dry/Frozen	50

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This is an existing road which will remain open for future harvest.

ISL-1F-2A (existing)

Additional Road Development Comments

This road is part of the access to blocks ISL-857 and 858. This road was built in 2009.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.7	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
SPL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The first 50m of this road will be closed with debris after renewal. ATV access is required for renewal and survey purposes.

ISL-1F-2B

Additional Road Development Comments

This road accesses blocks ISL-857 and 858.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.2	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
SPL	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Portions of this road will be closed with debris after renewal. ATV access is required for renewal purposes. Crossings will also be removed after renewal activities. ATV access is required for survey purposes.

ISL-1H-1A (existing)

Additional Road Development Comments

This road is part of the access to blocks ISL-002, 007, 008 and 855. This road was built in 2000.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
2.3	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with debris, if available, in the 2000 harvest block it goes through. ATV access is required for renewal and survey purposes. The crossings will also be removed after renewal activities restricting access. Trapper also uses this trail for access to his cabin.

ISL-1H-1A-1A

Additional Road Development Comments

This road accesses blocks ISL-002, 007 and 008.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
4.0	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with slash and debris at selected locations. Selected locations include landings and other areas where debris accumulates. ATV access is required for renewal purposes.

ISL-1H-1B (existing)

Additional Road Development Comments

This road accesses block ISL-855. This road was built in 2000.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.0	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with debris, if available, in the 2000 harvest block it goes through. ATV access is required for renewal and survey purposes. The crossings will also be removed after renewal activities restricting access. Trapper also uses this trail for access to his cabin.



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: ISL-C12		Ownership: SPL	
Operating Area:	Island Lake	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5708565	UTM Easting:	368519
Stream Type:	Other Watercourse	Land Description:	SE27-29-25W
Watercourse Name:	N/A	Crossing Inspection Date:	05-June-2020
Channel Width (m):	1.0	Stream Assessment Required:	
Water Depth (m):	0.10	Stream Assessment Complete:	
Road Name:	ISL-1H-1A-1A		

Site Description:

Small drain in a mixedwood stand with old floods up and downstream. The feature has no banks with rock, sand and silt substrate.

General Considerations:

SPL will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 July,2022"/>	to <input type="text" value="01 July,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

A minimum 18 inch culvert is required.

After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING ISL-C12



Across



Upstream



Downstream



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: ISL-C13		Ownership: SPL	
Operating Area:	Island Lake	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5708635	UTM Easting:	360799
Stream Type:	Other Watercourse	Land Description:	SW27-29-25W
Watercourse Name:	N/A	Crossing Inspection Date:	05-June-2020
Channel Width (m):	N/A	Stream Assessment Required:	
Water Depth (m):	N/A	Stream Assessment Complete:	
Road Name:	ISL-1H-1A-1A		

Site Description:

Crossing is in a sedge/willow/alder drain with no banks or flow. There was no discernable channel. The feature is approximately 10m wide at the crossing location. The substrate is organic.

General Considerations:

SPL will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>




Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 July,2022"/>	to <input type="text" value="01 July,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

A minimum 12 inch culvert is required. Geo and cordoroy will be used.

After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING ISL-C13

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: ISL-C14

Operating Area: Island Lake
UTM Northing: 5708704
Stream Type: Seasonal
Watercourse Name: N/A
Channel Width (m): 2.0
Water Depth (m): 0.40
Road Name: ISL-1H-1A-1B

Ownership: SPL

Contingency Crossing:
UTM Easting: 366362
Land Description: SW28-29-25W
Crossing Inspection Date: 08-June-2020
Stream Assessment Required:
Stream Assessment Complete:

Site Description:

Crossing is on a seasonal stream in a mixedwood stand. The substrate is rock, sand and silt. Banks are approximately 1 meter. Crossing is approximately 3 meters wide.

General Considerations:

SPL will follow DFO Operational Statement for clear span bridges.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:

Crossing Duration: Years

Remove after Renewal Activities:




Installation & Removal Notes:

A minimum 20 foot bridge is required.

After harvest is completed the portable bridge will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

If a snow and ice crossing is used after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions.

PROPOSED CROSSING ISL-C14

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2022 - Proposed Crossings

Crossing Name: ISL-C15		Ownership: SPL	
Operating Area:	Island Lake	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5708413	UTM Easting:	368967
Stream Type:	Other Watercourse	Land Description:	SE27-29-25W
Watercourse Name:	N/A	Crossing Inspection Date:	17-June-2020
Channel Width (m):	N/A	Stream Assessment Required:	
Water Depth (m):	N/A	Stream Assessment Complete:	
Road Name:	ISL-1H-1A-1A		

Site Description:

Alder swale in mixed wood stand. Feature is approximately 10m wide with no defined channel or banks. Substrate is organic.

General Considerations:

SPL will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>




Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 July,2022"/>	to <input type="text" value="01 July,2023"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

A minimum 18 inch culvert is required. Geo textile and/or cordoroy will also be used.

After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING ISL-C15

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: ISL-C17		Ownership: SPL	
Operating Area:	Island Lake	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5705293	UTM Easting:	371408
Stream Type:	Permanent	Land Description:	SW13-29-25W
Watercourse Name:	N/A	Crossing Inspection Date:	17-May-2021
Channel Width (m):	2.5	Stream Assessment Required:	
Water Depth (m):	0.5	Stream Assessment Complete:	
Road Name:	ISL-1F-2B		

Site Description:

Crossing is on a stream in mixed wood stand. Substrate is clay, gravel, cobble and rock. No fish were seen at the time of inspection. Approximately 20 meters of sedge and crossing.

General Considerations:

SPL/Quota Holder will follow DFO Operational Statement for clear span bridges.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>




Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 July,2023"/>	to <input type="text" value="01 July,2025"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

A minimum 30 foot bridge is required. Possibly a 30 foot bridge may be needed.

After harvest is completed the portable bridge will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING ISL-C17

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: ISL-C18		Ownership: SPL	
Operating Area:	Island Lake	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5704664	UTM Easting:	372323
Stream Type:	Other Watercourse	Land Description:	SE13-29-25W
Watercourse Name:	N/A	Crossing Inspection Date:	17-May-2021
Channel Width (m):	N/A	Stream Assessment Required:	
Water Depth (m):	N/A	Stream Assessment Complete:	
Road Name:	ISL-1F-2B		

Site Description:

Crossing is a small alder swale in mixedwood stand. The swale is approximately 10 meters wide. There is approximately 50 meters of Black Spruce on the south side of the crossing. Substrate is organic.

General Considerations:

SPL will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>




Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 July,2023"/>	to <input type="text" value="01 July,2025"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

If a snow and ice crossing is used after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions. A minimum 12 inch culvert is required. Cordoroy and/or geotextile may be used.

After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING ISL-C18

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: ISL-002	Twp & Rge: t29r25w	Cut Block Size: 64.9 ha
OPERATING AREA: Island Lake	Ownership: Open Crown	Mapsheet: 360570
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA		24.8	40	42%	87	5,651
BA		18.1	32	2%	4	258
WB				0%	0	0
Total HW				44%	91	5,909
WS	114	21.1	36	11%	23	1,474
BS	99	18.0	21	36%	75	4,868
JP		20.8	34	9%	19	1,255
BF				0%	0	0
Total SW				56%	117	7,597
Block Total:					208	13,506

Understory Stems/ha and Distribution							
WS		BS		BF			
173	Uniform	287	Uniform	33	Clumped		
Eco Land Classification			Soils Summary				
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
	08	29	05	13	S2	1	Sandy Loam
Eco Site	12						
Cover Type:	M	IBWC Cnt:	0				

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 5,613
 SOFTWOOD VOLUME (m3): 7,217

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	30-100	Located on the S side. Variable 30 to 100m buffer. Harvest as shown on map.
2	Wetland	15	Located on the N side. Variable 15 to 30m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 519 to 779 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain a max of 12 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: M

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input checked="" type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	1800	61840
2023	Sp	WS	1800	26000

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

Area of BF understory >500 stems/ha and <6m in height is located in the S portion of the block (Plot 3). This area will be harvested with concentrated clumps of BF being maintained.

Areas of WS understory >500 stems/ha and <6m in height are located in the central portion of the block (plots 9, 11 and 21). Clumps of understory will be protected in patches.

Areas of BS understory >500 stems/ha are located in the SE and NW portions of the block (plots 5, 23 and 29). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

Entire block being planted, ensure ATV access.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 9/24/21
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Minimal access to be left for planting. No truck access. See general comments. Need WLDP.</p>	<p>Agreed. WLDP's already in prescription.</p>
--	--



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: ISL-007	Twp & Rge: t29r25w	Cut Block Size: 84.4 ha
OPERATING AREA: Island Lake	Ownership: Open Crown	Mapsheet: 360570
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	104	22.1	38	41%	78	6,612
BA		19.4	30	5%	9	725
WB				0%	0	0
Total HW				46%	87	7,337
WS	71	18.9	34	18%	35	2,916
BS	113	16.1	20	30%	56	4,748
JP		19.6	23	7%	13	1,082
BF				0%	0	0
Total SW				54%	104	8,746
Block Total:					191	16,083

Understory Stems/ha and Distribution							
WS		BS		BF			
160	Clumped	600	Uniform				
Eco Land Classification			Soils Summary				
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
	08	05	30	09	S5	2	Loamy Sand
	Eco Site			33			
Cover Type: M		IBWC Cnt: 0					

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 6,970
 SOFTWOOD VOLUME (m3): 8,308

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3
Wetland	MFZ-50	Located on the S side. Variable MFZ to 50m buffer. Harvest as shown on map.
Wetland	MFZ-30	Located on W side between main block and island patch. Variable MFZ to 30m buffer. Harvest as shown on map.
Stream	100	Valley River located on the NW side. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 675 to 1,013 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain a max of 16 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



LP Swan Valley
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 Swan River, MB, R0L 1Z0
 Phone: 204-734-4102
 Fax: 204-734-3646

PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: ISL-008	Twp & Rge: t29r25w	Cut Block Size: 64.9 ha
OPERATING AREA: Island Lake	Ownership: Open Crown	Mapsheet: 360570
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	91	22.5	35	40%	88	5,676
BA		21.3	30	3%	7	463
WB				0%	0	0
Total HW				43%	95	6,139
WS	100	22.4	39	27%	60	3,902
BS	111	16.8	19	23%	50	3,244
JP		18.0	25	7%	16	1,061
BF				0%	0	0
Total SW				57%	127	8,207
Block Total:					221	14,346

Understory Stems/ha and Distribution					
WS		BS		BF	
81	Clumped	313	Uniform	13	Clumped

Eco Land Classification	1st			2nd			3rd		
	V Type	08	13	30					
	Eco Site	32							

Soils Summary			
LFH(cm)	S-Type	Moisture	Surface Texture
06	S5	2	Clay Loam

Cover Type: M	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 5,832
 SOFTWOOD VOLUME (m3): 7,797

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ-100	Located on the S side. Variable MFZ to 100m buffer. Harvest as shown on map.
2	Wetland	MFZ	Located on the E side. Structure will be maintained. Harvest as shown on map.
3	Wetland	15-30	Located on the W side. Variable 15 to 30m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 519 to 778 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain a max of 12 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: M

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input checked="" type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	1800	43920
2023	Sp	WS	1800	43920

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

Area of WS understory >500 stems/ha and <6m in height is located in the S portion of the block (plot 5). Clumps of understory will be protected in patches.

Areas of BS understory >500 stems/ha are located in the N portion of the block (plots 17, 21, 23, 27 and 29). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

Complete block being planted, ensure ATV access for seedling delivery.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 9/24/21
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Increase the IBWC leave @ SW corner to make a wildlife corridor.</p> <p>Minimal access to be left for planting. No truck access. See general comments.</p>	<p>Agreed. Added approximately 15m buffer on each side of IBWC.</p> <p>Agreed.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: ISL-009	Twp & Rge: t29r25w	Cut Block Size: 77.9 ha
OPERATING AREA: Island Lake	Ownership: Open Crown	Mapsheet: 370570
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA		22.7	33	54%	128	9,982
BA		21.5	34	3%	7	532
WB				0%	0	0
Total HW				57%	135	10,514
WS	71	21.3	38	7%	17	1,346
BS	112	16.9	20	32%	77	5,971
JP	101	19.9	27	3%	8	615
BF				0%	0	0
Total SW				43%	102	7,932
Block Total:					237	18,446

Understory Stems/ha and Distribution							
WS		BS		BF			
121	Clumped	211	Uniform				
Eco Land Classification			Soils Summary				
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
	08	30	09	08	S10	2	Silt Loam
Eco Site	33						
Cover Type:	N		IBWC Cnt:	0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 999
 SOFTWOOD VOLUME (m3): 754

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ-100	Located along the S side. Variable MFZ to 100m buffer. Floods are expanding. Harvest as shown on map.
2	Wetland	15-75	Located along the N side. Floods are expanding. Variable 15 to 75m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 623 to 935 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Approximately 90% of this block was harvested in 2021/22. Volumes shown indicate this.
 Areas of blowdown throughout the block. Merchantable trees will be salvaged if operationally feasible.
 Maintain a max of 15 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input checked="" type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	1800	28800

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

Areas of WS understory >500 stems/ha and <6m in height are located in the central portions of the block (plots 17 and 25). Clumps of understory will be protected in patches.

Areas of BS understory >500 stems/ha are located in the central and E portions of the block (plots 9 and 11). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

BLOCK BEING PLANTED - ensure ATV access

North pockets are being planted.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/30/20
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Are only the northern 'S' pockets being planted? Spruce throughout block, more planting.</p>	<p>If stock is available and there is ATV access, more trees can get planted in ISL-009.</p>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: ISL-855	Twp & Rge: t29r25w	Cut Block Size: 91.5 ha
OPERATING AREA: Island Lake	Ownership: Open Crown	Mapsheet: 360570
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 6,951
 SOFTWOOD VOLUME (m3): 11,524

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3	4	5
Wetland	MFZ-50	Wetland/lake complex located on the S side. Variable MFZ to 50m buffer. Harvest as shown on map.		
Flood	MFZ	Located on the SW side. Structure will be maintained. Harvest as shown on map.		
Wetland	MFZ	Located on the NE side. Structure will be maintained. Harvest as shown on map.		
Lake	30-50	Located on the SE side. Variable 30 to 50m buffer. Harvest as shown on map.		
Wetland	15-30	Located on the N side. Variable 15 to 30m buffer. Harvest as shown on map.		

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 732 to 1,098 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 Maintain a max of 18 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: ISL-857	Twp & Rge: t29r25w	Cut Block Size: 54.6 ha
OPERATING AREA : Island Lake	Ownership: Open Crown	Mapsheet: 370570
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 4,149
 SOFTWOOD VOLUME (m3): 6,878

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3
Wetland	15-30	Located on the E side. Variable 15 to 30m buffer. Harvest as shown on map.
Stream	15-100	Stream/flood complex located along the N and S sides. Variable 15 to 100m buffer. Harvest as shown on map.
Wetland	15-100	Located on the W side. Variable 15 to 100m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 437 to 655 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 Maintain a max of 10 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: ISL-858	Twp & Rge: t29r25w	Cut Block Size: 138.9 ha
OPERATING AREA: Island Lake	Ownership: Open Crown	Mapsheet: 370570
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 10,553
 SOFTWOOD VOLUME (m3): 17,496

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	15-50	Stream/wetland complex located along the S and SE side. Variable 15 to 50m buffer. Harvest as shown on map.
2	Stream	15-100	Stream/wetland complex located along the N side. Variable 15 to 100m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 1,111 to 1,666 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 Maintain a max of 27 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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 Fax: 204-734-3646

PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: ISL-859	Twp & Rge: t29r24w	Cut Block Size: 54.9 ha
OPERATING AREA: Island Lake	Ownership: Open Crown	Mapsheets: 370570
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 4,172
 SOFTWOOD VOLUME (m3): 6,916

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	30-75	Elk Lake Creek located on the E side. Variable 30 to 75m buffer. Harvest as shown on map.
2	Lake	15-30	Located on the NW and SE sides. Variable 15 to 30m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 439 to 659 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 Maintain a max of 10 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: ISL-903	Twp & Rge: t29r24w	Cut Block Size: 17.3 ha
OPERATING AREA: Island Lake	Ownership: Open Crown	Mapsheets: 370570
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	62	16.0	28	33%	31	528
BA	82	17.3	27	35%	33	566
WB		15.4	25	29%	27	460
Total HW				96%	90	1,554
WS		15.0	27	4%	3	60
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				4%	3	60
Block Total:					93	1,614

Understory Stems/ha and Distribution					
WS		BS		BF	
100	Uniform			29	Clumped

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	05	01	04
Eco Site	32		

LFH(cm)	S-Type	Moisture	Surface Texture
04	S5	2	Sandy Loam
06	S5	2	Clay Loam

Cover Type: H	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 1,353
 SOFTWOOD VOLUME (m3): 35

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Lake	MFZ-30	Located on the S side. Variable MFZ to 30m buffer. Large riparian zone. Harvest as shown on map.
2	Roads	30	Hwy 366 located along the E side. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 138 to 208 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

To benefit the regeneration of both planted softwood seedlings and natural regeneration of hardwoods by suckering, it is recommended that all hardwood trees be harvested (except in wildlife tree patches). Selective harvesting of only the softwood trees would leave behind significant amounts of hardwood canopy. Selective harvesting of only the hardwood trees for logs would leave behind significant amounts of debris and hardwood canopy. In mixed wood and softwood blocks the number of acceptable planting microsites would be reduced, and the hardwood canopy could reduce softwood seedling growth and hardwood regeneration. In hardwood blocks the residual hardwood canopy and debris could reduce hardwood regeneration and reduce potential for softwood renewal.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2027

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on 9/24/21
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Due to time limitations this will be discussed on a case by case basis at time of harvest.
 Need 50m buffer of PR 366 and start of ISL road. Manitoba to provide a diagram.

Do not think a visual buffer on the ISL road between plots 4 and 7 will be possible. Need access to the block and room to operate.
 Will change buffer on 366 to a 50m buffer.

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-



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: ISL-905	Twp & Rge: t29r24w	Cut Block Size: 1.9 ha
OPERATING AREA: Island Lake	Ownership: Open Crown	Mapsheets: 370570
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	57	15.3	19	84%	62	119
BA		16.0	20	16%	12	23
WB				0%	0	0
Total HW				100%	74	142
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					74	142

Understory Stems/ha and Distribution							
WS		BS		BF			
250	Uniform						
Eco Land Classification			Soils Summary				
V Type	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
	05			06	S5	2	Clay Loam
Eco Site	32						
Cover Type:	H		IBWC Cnt:	0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 135
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on the S side. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 15 to 23 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

To benefit the regeneration of both planted softwood seedlings and natural regeneration of hardwoods by suckering, it is recommended that all hardwood trees be harvested (except in wildlife tree patches). Selective harvesting of only the softwood trees would leave behind significant amounts of hardwood canopy. Selective harvesting of only the hardwood trees for logs would leave behind significant amounts of debris and hardwood canopy. In mixed wood and softwood blocks the number of acceptable planting microsites would be reduced, and the hardwood canopy could reduce softwood seedling growth and hardwood regeneration. In hardwood blocks the residual hardwood canopy and debris could reduce hardwood regeneration and reduce potential for softwood renewal.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: ISL-906	Twp & Rge: t29r24w	Cut Block Size: 3.8 ha
OPERATING AREA: Island Lake	Ownership: Open Crown	Mapsheets: 370570
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	97	15.5	25	90%	44	167
BA				0%	0	0
WB		13.5	44	10%	5	19
Total HW				100%	49	186
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					49	186

Understory Stems/ha and Distribution					
WS		BS		BF	
33	Clumped				

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type	05			05	S5	2	Clay Loam
Eco Site	32						

Cover Type: H	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 177
 SOFTWOOD VOLUME (m3):

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on the S side. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 31 to 46 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

To benefit the regeneration of both planted softwood seedlings and natural regeneration of hardwoods by suckering, it is recommended that all hardwood trees be harvested (except in wildlife tree patches). Selective harvesting of only the softwood trees would leave behind significant amounts of hardwood canopy. Selective harvesting of only the hardwood trees for logs would leave behind significant amounts of debris and hardwood canopy. In mixed wood and softwood blocks the number of acceptable planting microsites would be reduced, and the hardwood canopy could reduce softwood seedling growth and hardwood regeneration. In hardwood blocks the residual hardwood canopy and debris could reduce hardwood regeneration and reduce potential for softwood renewal.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2027

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on [9/24/21](#)
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Need 50m treed buffer on ISL road. No wood to be piled on ISL road. Use 2 spur roads.</p> <p>Due to time limitations this will be discussed on a case by case basis at time of harvest.</p>	<p>This is a road buffer harvest with previous harvest behind it. The block is 60 to 140m wide and only 3.8 ha's. The block is designed to capture wood along roads with narrow 100m blocks along road and harvest behind. Cannot leave 50m buffer on a buffer harvest. Spur roads are impractical on these small buffer blocks.</p> <p>Block is not wide enough to have a visual buffer along the entire block. LOS breaks can be left, to be determined at the time of harvest.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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Integrated Operations by Operating Area

Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 13

Jackfish Lake

JFL-012	51.71 Hectares		2023 Harvest
HW Allocation	5,061 m3	LP	
SW Allocation	2,049 m3	SPL	
JFL-013	60.96 Hectares		2023 Harvest
HW Allocation	6,264 m3	LP	
SW Allocation	2,169 m3	SPL	
JFL-014	15.87 Hectares		2023 Contingency
HW Allocation	2,160 m3	LP	
SW Allocation	320 m3	SPL	
JFL-015	15.46 Hectares		2023 Contingency
HW Allocation	2,025 m3	LP	
SW Allocation	310 m3	SPL	
JFL-016	22.51 Hectares		2023 Contingency
HW Allocation	3,105 m3	LP	
SW Allocation	460 m3	SPL	
JFL-017	47.25 Hectares		2023 Contingency
HW Allocation	6,480 m3	LP	
SW Allocation	960 m3	SPL	
JFL-018	15.81 Hectares		2023 Contingency
HW Allocation	2,025 m3	LP	
SW Allocation	300 m3	SPL	
JFL-019	11.16 Hectares		2023 Contingency
HW Allocation	1,080 m3	LP	
SW Allocation	160 m3	SPL	
JFL-020	69.38 Hectares		2023 Contingency
HW Allocation	9,855 m3	LP	
SW Allocation	1,460 m3	SPL	
JFL-022	52.02 Hectares		2023 Contingency
HW Allocation	6,480 m3	LP	
SW Allocation	960 m3	SPL	
JFL-023	19.11 Hectares		2023 Contingency
HW Allocation	2,106 m3	LP	
SW Allocation	310 m3	SPL	
JFL-028	4.86 Hectares		2023 Contingency
HW Allocation	810 m3	LP	
SW Allocation	120 m3	SPL	



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Integrated Operations by Operating Area

Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 13

Jackfish Lake

JFL-806	69.66 Hectares	2022 Harvest
HW Allocation	1,900 m3	LP/Quota Holder
SW Allocation	912 m3	Quota Holder

Jackfish Lake Operating Area

Route H (RTH)

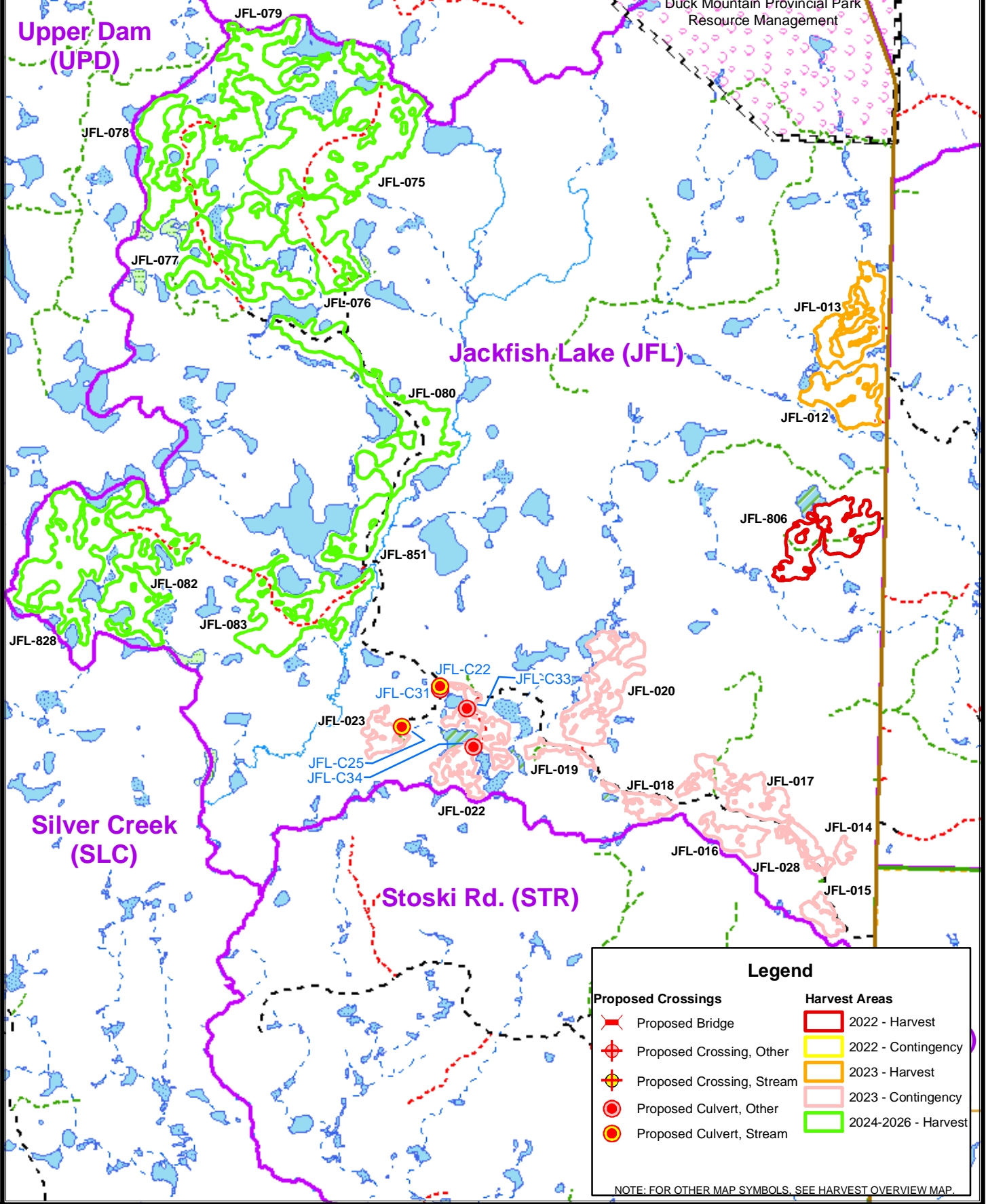
Duck Mountain Provincial Park Resource Management

Upper Dam (UPD)

Jackfish Lake (JFL)

Silver Creek (SLC)

Stoski Rd. (STR)



Proposed Crossings		Harvest Areas	
	Proposed Bridge		2022 - Harvest
	Proposed Crossing, Other		2022 - Contingency
	Proposed Crossing, Stream		2023 - Harvest
	Proposed Culvert, Other		2023 - Contingency
	Proposed Culvert, Stream		2024-2026 - Harvest

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.

Roads

Jackfish Lake

JFL-1A to 1E (existing)

Additional Road Development Comments

This is the access road to Jackfish Lake. This road is part of the access to all the JFL 2023 Contingency blocks.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
7.9	20	8	Dry/Frozen	50

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP/Quota Holder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This is an existing road which will remain open.

JFL-1D-2A

Additional Road Development Comments

This road accesses block JFL-020.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.1	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A berm will be placed at the start of the road and the first 50m will be closed with slash and debris. ATV access is required for renewal activities.

JFL-1E-1A and 1E-1B (existing)

Additional Road Development Comments

These roads access block JFL-023.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.9	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
LP	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A berm will be placed at the start of the road. The crossings will be removed further restricting access.

JFL-1E-3A**Additional Road Development Comments**

This road accesses block JFL-022.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.0	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A berm will be placed at the start of the road. Slash and debris will be spread at selected locations in block JFL-022. Selected locations include landings and other areas where debris accumulates. Crossings will also be removed restricting access.

JFL-6A (existing)**Additional Road Development Comments**

This road accesses block JFL-806 and is part of the access to block JFL-807. The road was built in 2021.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.2	20	8	Dry/Frozen	5

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
Quota Holder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will probably be required for a number of years depending on who the quota holder is. A berm will be placed at the start of the road between harvest seasons.

JFL-7A**Additional Road Development Comments**

This road accesses block JFL-013.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.1	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with slash and debris. Maintain ATV access for renewal activities.

JFL-8A**Additional Road Development Comments**

This road accesses block JFL-012.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.1	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Slash and Debris	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This is an existing trail. Close road with slash and debris for the first 100m. Maintain ATV access for renewal and other trail users.



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: JFL-C22		Ownership: LP	
Operating Area:	Jackfish Lake	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5693835	UTM Easting:	375972
Stream Type:	Seasonal	Land Description:	SW-9-28-24-W
Watercourse Name:	N/A	Crossing Inspection Date:	01-June-2016
Channel Width (m):	0.7	Stream Assessment Required:	
Water Depth (m):	0.1	Stream Assessment Complete:	
Road Name:	JFL-1E-1A		

Site Description:

This crossing was established in 2001. The proposed crossing is located on a small stream produced by an overflowing beaver dam. The stream is located in an upland mixedwood stand and is densely covered by overhanging vegetation.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 September,2023"/>	to <input type="text" value="01 July,2024"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:




If quota holder chooses to use a snow and ice crossing, the surface of the structure will be cleaned off and a trench will be constructed to allow for unobstructed flow during spring break-up.

If a round culvert is used, the pipe will be removed and approaches will be recontoured and seeded. Straw mulch or erosion control matting may be used to promote seed germination and reduce direct exposure of seed to wind and rain.

Minimum 18" diameter pipe required if alternative structure type is used.

After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING JFL-C22

 A photograph showing a view across a stream. The stream is in the foreground, surrounded by tall grasses and dense green vegetation. In the background, there is a line of trees under a clear sky.	<p>Across</p>
 A photograph showing a view upstream. The stream is in the foreground, flowing through a dense thicket of green bushes and trees. The water is clear and reflects the surrounding greenery.	<p>Upstream</p>
 A photograph showing a view downstream. The stream is in the foreground, surrounded by dense green vegetation and trees. The water is clear and reflects the surrounding greenery.	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: JFL-C25		Ownership: LP
Operating Area:	Jackfish Lake	Contingency Crossing: <input type="checkbox"/>
UTM Northing:	5693299	UTM Easting: 375460
Stream Type:	Seasonal	Land Description: SW-9-28-24-W
Watercourse Name:	N/A	Crossing Inspection Date: 01-June-2016
Channel Width (m):	1.5	Stream Assessment Required:
Water Depth (m):	0.15	Stream Assessment Complete:
Road Name:	JFL-1E-1B	

Site Description:

This crossing was used in 2005. It is a small alder/willow swale with discontinuous banks. This channel flows into an alder swale. Water flow is typically low and flow in response to heavy precipitation events. The channel substrate is composed of clay and organic material.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>




Temporary Crossing:	<input checked="" type="checkbox"/>
<input type="text" value="01 September,2023"/>	to <input type="text" value="01 July,2024"/>
Permanent Crossing:	<input type="checkbox"/>
Proposed Install Date:	<input type="text"/>
Crossing Duration:	<input type="text"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

A minimum 12 inch culvert is required.

After harvest is completed in the area, the pipe will be removed and the road approaches will be recontoured and seeded. Straw mulch or erosion control matting may be used to stabilize the grass seed and promote germination.

PROPOSED CROSSING JFL-C25

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: JFL-C31

Operating Area: Jackfish Lake
UTM Northing: 5693797
Stream Type: Other Watercourse
Watercourse Name: N/A
Channel Width (m): 0.5
Water Depth (m): 0.1
Road Name: JFL-1E-1A

Ownership: LP
Contingency Crossing:
UTM Easting: 375970
Land Description: SW9-28-24W
Crossing Inspection Date: 01-June-2016
Stream Assessment Required:
Stream Assessment Complete:

Site Description:

Small alder/willow swale on old road which is draining upstream flood. This crossing was established in 2001. Substrate is clay/organic. Probably only flows during periods on high water.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

Crossing Lifespan:

	Preferred	Alternate
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:




Crossing Duration: Years

Remove after Renewal Activities:

Installation & Removal Notes:

A minimum 12 inch culvert is required.
 After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING JFL-C31

	<p>Across</p>
	<p>Upstream</p>
	<p>Downstream</p>



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: JFL-C33		Ownership: LP	
Operating Area:	Jackfish Lake	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5693540	UTM Easting:	376334
Stream Type:	Other Watercourse	Land Description:	SE9-28-24W
Watercourse Name:	N/A	Crossing Inspection Date:	04-May-2021
Channel Width (m):	2.0	Stream Assessment Required:	
Water Depth (m):	0.5	Stream Assessment Complete:	
Road Name:	JFL-1E-3A		

Site Description:

Crossing is a flooded drain which has expanded. Lots of beaver activity along channel. Remove downstream dam to lower water at crossing. Substrate is organic/clay. No flow at time of inspection.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Crossing Lifespan:

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:

Crossing Duration: Years

Remove after Renewal Activities:

Installation & Removal Notes:

If a snow and ice crossing is used after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions. A minimum 18 inch culvert is required.

After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING JFL-C33



Across



Upstream



Downstream



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: JFL-C34		Ownership: LP	
Operating Area:	Jackfish Lake	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5693026	UTM Easting:	376420
Stream Type:	Other Watercourse	Land Description:	NE4-28-24W
Watercourse Name:	N/A	Crossing Inspection Date:	04-May-2021
Channel Width (m):	3.0	Stream Assessment Required:	
Water Depth (m):	0.5	Stream Assessment Complete:	
Road Name:	JFL-1E-3A		

Site Description:

Crossing is a flooded stream in a mixed wood stand. Channel has beaver dams. Remove the downstream dam to lower water. Substrate is gravel, clay and organic. No flow at time of inspection.

General Considerations:

LP will follow DFO Operational Statement for temporary crossings.

Crossing Structure:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Crossing Lifespan:

Temporary Crossing:

to

Permanent Crossing:

Proposed Install Date:

Crossing Duration: Years

Remove after Renewal Activities:




Installation & Removal Notes:

If a snow and ice crossing is used after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions.

A minimum 18 inch culvert is required. Cordoroy and/or geotextile and fill will be used.

After harvest is completed the culvert will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

PROPOSED CROSSING JFL-C34

 A photograph showing a view across a stream. The water is dark and reflects the sky. The banks are covered in dry, yellowish-brown grass and some fallen logs. In the background, there is a dense forest of tall, thin trees, likely birches, and some evergreens.	<p>Across</p>
 A photograph showing a view upstream. The stream is narrow and flows through a dense forest of evergreen trees. The banks are covered in dry grass and fallen branches. The sky is overcast.	<p>Upstream</p>
 A photograph showing a view downstream. The stream is wider and flows through a dense forest of evergreen trees. The banks are covered in dry grass and fallen branches. The sky is overcast.	<p>Downstream</p>



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: JFL-012	Twp & Rge: t28r24w	Cut Block Size: 51.7 ha
OPERATING AREA: Jackfish Lake	Ownership: Open Crown	Mapsheet: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	87	22.0	32	43%	63	3,276
BA		17.3	23	4%	6	320
WB		19.0	26	24%	35	1,822
Total HW				71%	105	5,418
WS	103	20.0	35	14%	20	1,040
BS		18.5	20	6%	9	480
JP		19.0	32	1%	2	82
BF		21.0	42	8%	12	629
Total SW				29%	43	2,231
Block Total:					148	7,649

Understory Stems/ha and Distribution					
WS		BS		BF	
91	Uniform			200	Uniform

Eco Land Classification	1st			2nd			3rd			
	V Type			Eco Site			Soils Summary			
	LFH(cm)	S-Type	Moisture	Surface Texture						
	05	08	13	04	S3	2	Silty Sand			
	22									

Cover Type: N	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 5,061
 SOFTWOOD VOLUME (m3): 2,049

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3	4
Wetland	MFZ-75	Located along N side. Variable MFZ to 75m buffer. Harvest as shown on map.	
Stream	30-50	Drifting River located on the S side. Variable 30 to 50m buffer. Harvest as shown on map.	
Roads	30	Hwy 366 located on the E side. Harvest as shown on map. See IRMT comment.	
Lake	15-30	Located on the W side. Variable 15 to 30m buffer. Harvest as shown on map.	

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 414 to 621 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain a maximum of 8 WDP's approximately 30-70 m from the block edge adjacent to buffers along riparian areas and adjacent to softwood forest types outside the block.
 Keep existing trail that runs through the block free of debris.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

Cut Block Name: JFL-013	Twp & Rge: t28r24w	Cut Block Size: 61.0 ha
OPERATING AREA: Jackfish Lake	Ownership: Open Crown	Mapsheets: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	80	20.7	27	56%	82	4,992
BA		19.2	25	7%	10	604
WB		18.5	28	12%	17	1,034
Total HW				74%	109	6,630
WS	85	18.0	25	15%	22	1,316
BS	100	19.3	21	9%	14	836
JP		17.0	30	1%	1	61
BF		14.0	18	1%	2	100
Total SW				26%	38	2,313
Block Total:					147	8,943

Understory Stems/ha and Distribution					
WS		BS		BF	
38	Clumped	69	Clumped	46	Clumped

Eco Land Classification	1st			2nd			3rd		
	V Type	08	05	13					
	Eco Site	23							

Soils Summary			
LFH(cm)	S-Type	Moisture	Surface Texture
05	S3	2	Silty Sand

Cover Type: N	IBWC Cnt: 1
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 6,264
 SOFTWOOD VOLUME (m3): 2,169

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	MFZ-15	Located along W and S sides. Variable MFZ to 15m buffer. Harvest as shown on map.
2	Roads	30	Hwy 366 located along E side. Harvest as shown on map. See IRMT comment.
3	Stream	15-30	Located along N side. Variable 15 to 30m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 488 to 732 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain a maximum of 10 WDP's approximately 30-70 m from the block edge adjacent to buffers along riparian areas and adjacent to softwood forest types outside the block.
 Maintain structure along IBWC located near plots 8 and 13.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2024	Sp	BS	1600	4800
2024	Sp	WS	1600	11880

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Regeneration	First	2034

RENEWAL COMMENTS/ISSUES:

Will determine best planting spots at time of harvest, ensure ATV access to planting sites.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/27/17
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Discuss buffer mgmt in relation to age of TA. Multi cohort? Review PHS.</p> <p>Will there be some planting in the south end of the block?</p> <p>WLDP needed.</p>	<p>These buffers are old poplar and hazel, not much HWD regen occurring. IRMT agrees 30 metre visual barrier on 366 may be adjusted greater or lesser depending on topography and land features as long as significant visual barrier is maintained.</p> <p>Unsure of how much of the softwood will be cut. Will determine at time of harvest.</p> <p>Agreed.</p>	<p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p>
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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: JFL-014	Twp & Rge: t28r24w	Cut Block Size: 15.9 ha
OPERATING AREA : Jackfish Lake	Ownership: Open Crown	Mapsheet: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st			2nd		
3rd			LFH(cm)		
V Type			S-Type		
Eco Site			Moisture		
			Surface Texture		
Cover Type:			IBWC Cnt: 0		

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 2,160
 SOFTWOOD VOLUME (m3): 320

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on the E side. Structure will be maintained. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 127 to 190 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 Keep equipment and debris out of harvested area located on the N side.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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LP Swan Valley
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 Phone: 204-734-4102
 Fax: 204-734-3646

PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: JFL-015	Twp & Rge: t27r24w	Cut Block Size: 15.5 ha
OPERATING AREA: Jackfish Lake	Ownership: Open Crown	Mapsheet: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 2,025
 SOFTWOOD VOLUME (m3): 310

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on the W side. Structure will be maintained. Harvest as shown on map.
2	Stream	30-50	Sulphur Spring Creek located on the S side. Variable 30 to 75m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 124 to 186 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: JFL-016	Twp & Rge: t28r24w	Cut Block Size: 22.5 ha
OPERATING AREA: Jackfish Lake	Ownership: Open Crown	Mapsheet: 370569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st			2nd		
3rd			LFH(cm)		
V Type			S-Type		
Eco Site			Moisture		
			Surface Texture		
Cover Type:			IBWC Cnt: 0		

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 3,105
 SOFTWOOD VOLUME (m3): 460

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on the E, W and NW sides. Structure will be maintained. Harvest as shown on map.
2	Stream	15-50	Sulphur Spring Creek located on the S side. Variable 15 to 50m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 180 to 270 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Keep equipment and debris out of harvested area located on the N and E sides.
 This block has not been surveyed. The volume information is based on surveyed blocks in the area.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: JFL-017	Twp & Rge: t28r24w	Cut Block Size: 47.3 ha
OPERATING AREA: Jackfish Lake	Ownership: Open Crown	Mapsheet: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 6,480
 SOFTWOOD VOLUME (m3): 960

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on the W, E and N sides. Structure will be maintained. Floods are expanding. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 378 to 567 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 Keep equipment and debris out of harvested areas located on the SW and NW sides.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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 Fax: 204-734-3646

PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: JFL-018	Twp & Rge: t28r24w	Cut Block Size: 15.8 ha
OPERATING AREA: Jackfish Lake	Ownership: Open Crown	Mapsheet: 370569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 2,025
 SOFTWOOD VOLUME (m3): 300

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	MFZ-15	Located on the W side. Variable MFZ to 15m buffer. Harvest as shown on map.
2	Stream	15-50	Sulphur Spring Creek located on the S side. Variable 15 to 50m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 126 to 190 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: JFL-019	Twp & Rge: t28r24w	Cut Block Size: 11.2 ha
OPERATING AREA : Jackfish Lake	Ownership: Open Crown	Mapsheet: 370569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st			LFH(cm)		
2nd			S-Type		
3rd			Moisture		
V Type			Surface Texture		
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 1,080
 SOFTWOOD VOLUME (m3): 160

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2
Wetland	Wetland
MFZ-15	MFZ
Located on the W side. Variable MFZ to 15m buffer. Harvest as shown on map.	Located on the S/SE side. Structure will be maintained. Floods are expanding. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 89 to 134 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 Keep equipment and debris out of harvested area located on the S side.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: JFL-020	Twp & Rge: t28r24w	Cut Block Size: 69.4 ha
OPERATING AREA: Jackfish Lake	Ownership: Open Crown	Mapsheets: 370569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 9,855
 SOFTWOOD VOLUME (m3): 1,460

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on N and E sides. Floods are expanding. Structure will be maintained. Harvest as shown on map.
2	Stream	MFZ	Located along the W side. Variable MFZ to 15m buffer. Structure will be maintained. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 555 to 833 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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 Fax: 204-734-3646

PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: JFL-022	Twp & Rge: t28r24w	Cut Block Size: 52.0 ha
OPERATING AREA: Jackfish Lake	Ownership: Open Crown	Mapsheets: 370569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st 2nd 3rd			LFH(cm)	S-Type	Moisture
V Type					
Eco Site					
Cover Type:		IBWC Cnt: 0			

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 6,480
 SOFTWOOD VOLUME (m3): 960

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2
Wetland	Wetland
MFZ-30	MFZ-30
Located along the E side. Variable MFZ to 30m buffer. Floods are expanding. Harvest as shown on map.	
Located along W side. Variable MFZ to 30m buffer. Floods are expanding. Harvest as shown on map.	

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 416 to 624 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: JFL-023	Twp & Rge: t28r24w	Cut Block Size: 19.1 ha
OPERATING AREA: Jackfish Lake	Ownership: Open Crown	Mapsheets: 370569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st			2nd		
3rd			LFH(cm)		
V Type			S-Type		
Eco Site			Moisture		
			Surface Texture		
Cover Type:			IBWC Cnt: 0		

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 2,106
 SOFTWOOD VOLUME (m3): 310

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on the S side. Variable MFZ to 30m buffer. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 153 to 229 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 Keep equipment and debris out of harvested area located on the SE side.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: JFL-028	Twp & Rge: t28r24w	Cut Block Size: 4.9 ha
OPERATING AREA: Jackfish Lake	Ownership: Open Crown	Mapsheet: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	
Eco Land Classification			Soils Summary		
1st			2nd		
3rd			LFH(cm)		
V Type			S-Type		
Eco Site			Moisture		
			Surface Texture		
Cover Type:			IBWC Cnt: 0		

HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 810
 SOFTWOOD VOLUME (m3): 120

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Flood	MFZ	Located along the W side. Floods are expanding. Harvest as shown on map.
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WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 39 to 58 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: H

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2028

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: JFL-806	Twp & Rge: t28r24w	Cut Block Size: 69.7 ha
OPERATING AREA: Jackfish Lake	Ownership: Open Crown	Mapsheets: 380569
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	94	21.3	33	41%	60	4,213
BA	95	19.8	39	7%	10	728
WB	115	15.8	23	19%	29	1,993
Total HW				68%	100	6,934
WS	89	18.8	34	25%	37	2,560
BS	111	18.2	30	7%	11	742
JP		14.0	20	0%	0	20
BF				0%	0	0
Total SW				32%	48	3,322
Block Total:					147	10,256

Understory Stems/ha and Distribution					
WS		BS		BF	
433	Uniform	117	Clumped	61	Clumped

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	08	05	13
Eco Site			

LFH(cm)	S-Type	Moisture	Surface Texture
13	S5	2	Clay Loam
07	S5	2	Sandy Clay Loam

Cover Type: N	IBWC Cnt: 2
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP/Quota Holder
 SOFTWOOD ALLOCATION: Quota Holder

HARDWOOD VOLUME (m3): 1,900
 SOFTWOOD VOLUME (m3): 912

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3	4	5
Wetland	MFZ	Located on the S side. Structure will be maintained. Harvest as shown on map.		
Wetland	MFZ	Located on the N side. Structure will be maintained. Harvest as shown on map.		
Flood	MFZ	Located on the SW corner. Structure will be maintained. Harvest as shown on map.		
Roads	30	Hwy 366 located on the E side. Flag as shown on map. See IRMT comment.		
Stream	15	Located in the center of the block. Harvest as shown on map.		

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 557 to 836 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Block shape has been edited to remove area lost due to wind throw/beavers. Approximately 1.6 ha's were removed from the block.

Maintain a maximum of 13 WDP approximately 30-70m from the block edge, and near riparian areas and/or adjacent softwood stands where possible.

Maintain structure along IBWC located near plot 15. This feature is crossing JFL-C25.

This block has a high volume of birch. Most of the birch is located in the NW portion of the block, plots 12, 18 and 20. This area will be selectively harvested (if possible) if no quota holder or permittee will claim this volume.

Start harvest on west side of crossing JFL-C30 and work west to JFL-807. Finish front of JFL-806 last.

Approximately 50 ha's of this block was harvested in 2021. Volumes shown indicate this.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	1600	3840
2023	Sp	WS	1600	33840

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

Area of BF understory >500 stems/ha and <6m in height is located in the W portion of the block (Plot 20). This area will be harvested with concentrated clumps of BF being maintained.

Back end of block will be planted as well as the middle. ATV access is required for the complete block.

Areas of WS understory >500 stems/ha and <6m in height are located in the N portion of the block (plots 26, 28, 34 and 36). Clumps of understory will be protected in patches.

Area of BS understory >500 stems/ha and <6m in height is located in the central portion of the block (plot 18). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 11/11/16
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Discuss buffer mgmt in relation to age of TA. Multi cohort? Review PHS.	These buffers are old poplar and hazel, not much HWD regen occurring. IRMT agrees 30 metre visual barrier on 366 may be adjusted greater or lesser depending on topography and land features as long as significant visual barrier is maintained.	<input checked="" type="checkbox"/>
Require an IRMT inspection for possible designated skid trails for USP.	May avoid those portions of block where US is thick. Will determine during harvest.	<input checked="" type="checkbox"/>
Ensure utilization of WB by quota holder.	Will ensure WB is utilized or left standing in block.	<input checked="" type="checkbox"/>
Start harvest on W side of C30 and work W to JFL-807. Finish E of 806 last	Agreed.	<input checked="" type="checkbox"/>

Jackfish Lake - JFL-806



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Integrated Operations by Operating Area

Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML
 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 13

Line Lake

LNK-801	44.85 Hectares		2023 Contingency
HW Allocation	4,891 m3	Quota Holder/LP	
SW Allocation	2,565 m3	Quota Holder/SPL	
LNK-810	86.48 Hectares		2022 Contingency
HW Allocation	9,507 m3	Quota Holder/LP	
SW Allocation	5,824 m3	Quota Holder/SPL	
LNK-811	112.23 Hectares		2022 Harvest
HW Allocation	10,748 m3	Quota Holder/LP	
SW Allocation	14,230 m3	Quota Holder/SPL	
LNK-813	66.67 Hectares		2022 Contingency
HW Allocation	9,049 m3	Quota Holder/LP	
SW Allocation	4,748 m3	Quota Holder/SPL	
LNK-814	82.37 Hectares		2022 Contingency
HW Allocation	1,714 m3	Quota Holder/LP	
SW Allocation	5,888 m3	Quota Holder/SPL	
LNK-819	57.32 Hectares		2023 Contingency
HW Allocation	7,787 m3	Quota Holder/LP	
SW Allocation	4,084 m3	Quota Holder/SPL	
LNK-834	24.21 Hectares		2022 Contingency
HW Allocation	1,602 m3	Quota Holder/LP	
SW Allocation	2,698 m3	Quota Holder/SPL	
LNK-835	41.00 Hectares		2023 Contingency
HW Allocation	4,674 m3	Quota Holder	
SW Allocation	4,100 m3	Quota Holder/SPL	

Duck Mountain Provincial Park
Backcountry

Line Lake Operating Area

Tee Lakes (TEL)

LNK-807

LNK-823

LNK-830

LNK-808

LNK-805

LNK-821

LNK-802

LNK-804

LNK-820

LNK-801

LNK-C15

LNK-819

LNK-810

Duck Mountain Provincial Park
Resource Management

LNK-813

LNK-811

Line Lake (LNK)

Onion Lake (ONL)

LNK-835

LNK-814

Ketchum Creek (KTC)

LNK-834

Legend

Proposed Crossings

- Proposed Bridge
- Proposed Crossing, Other
- Proposed Crossing, Stream
- Proposed Culvert, Other
- Proposed Culvert, Stream

Harvest Areas

- 2022 - Harvest
- 2022 - Contingency
- 2023 - Harvest
- 2023 - Contingency
- 2024-2026 - Harvest

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.

Mitigation Comments

General

Operating Area/ Mitigation Year	Concern	Manitoba	Action/Response
Line Lake	Harvest Sequence	Recommend no hauling happen on weekends and the blocks preferably would not be active before Oct-01 to avoid the majority of the recreation/cottage activities.	
	Access Control	Gate must be locked if the road is inactive for more than 48 hours. In the past it has not been.	Agreed.
	Access Control	Where ATV access is to be left for renewal purposes, only one central access may be retained. No in block spur roads are to be left. A limited number of strategically distributed helicopter landing areas may be left on roads and landings. Access to be closed following completion of planting activities by no later than July 31, unless separate approval is applied for.	Agreed. Will determine on a site by site basis.

Site Specific

Block	Concern	Manitoba	Action/Response
LNK-811	Terrestrial Buffers - IRMT Discretion	Remove portion of block to create a 100 m buffer between this block and TEL-820.	Agreed.
	Riparian Mgmt. - Wildlife	Increase the buffer on water feature to the south from 30 m to 30 m <u>treed</u> buffer for moose calving.	Agreed.
	Access Control	Minimal access to be left for planting. Not truck access. See Operating Area General Comment about planting access.	Agreed.
LNK-814	Age of Mitigation	Last mitigated 2014. Will revisit mitigation at permit time.	

LNK-834	Age of Mitigation	Last mitigated 2014. Will revisit mitigation at permit time.
LNK-801, LNK-819, LNK-835	Not Surveyed	Will mitigate after survey.
LNK-810, 813	No concerns	Block was mitigated less than five years ago.

Roads

Line Lake

KTC-7A (existing)

Additional Road Development Comments

This road is part of the access to LNK-814 and 834. The road was upgraded in 2018. This is the approach put in to access KTC-820 in 2013/14.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.7	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
SPL/Quota Holder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The first 50m of this road will be closed with slash and debris. Closure on road KTC-7A will block access into this area. Crossing LNK-C13 will be removed after harvest and renewal is complete. Maintain ATV access for renewal purposes.

LNK-1A and 1B (existing)

Additional Road Development Comments

These roads are part of the access to blocks LNK-801, 810, 811, 813, 819 and 835. These roads were built in 2019.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
2.1	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
SPL/Quota Holder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	These roads will be required for future harvest and will remain open. A berm will be placed at the start of the road between harvest seasons.

LNK-1B-1A to 1B-1C (existing)

Additional Road Development Comments

These roads are part of the access to blocks LNK-811, 813 and 835. These roads were built in 2019.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
2.1	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
SPL/Quota Holder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be required for future harvest and will remain open. A berm will be placed at the start of the road between harvest seasons.

LNK-1B-1C-1A

Additional Road Development Comments

This road accesses block LNK-835.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.9	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
SPL/Quota Holder			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with slash and debris at selected locations in block LNK-812 which was harvested in 2019. ATV access is required for renewal and survey purposes.

LNK-1B-1D

Additional Road Development Comments

This road accesses block LNK-813 and is part of the access to block LNK-811.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.9	20	8	Frozen	3

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
SPL/Quota Holder			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with slash and debris after block LNK-811 and 813 are harvested. ATV access will be maintained for renewal and survey purposes.

LNK-1B-1E

Additional Road Development Comments

This road accesses block LNK-811.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
1.2	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility	Post-Harvest	Post-Renewal	Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
SPL/Quota Holder			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with debris at selected locations in block LNK-813 after renewal. ATV access will be maintained for renewal and survey purposes.

LNK-1C and 1D

Additional Road Development Comments

These roads access blocks LNK-810 and 819 and are part of the access to block LNK-801.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
2.1	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
SPL/Quota Holder	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	These roads will remain open for future harvest.

LNK-1D-1A

Additional Road Development Comments

This road accesses block LNK-801.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.8	2	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
SPL/Quota Holder	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	This road will be closed with slash and debris at selected locations in block LNK-819 after renewal activities.

LNK-7B and 7C (existing)

Additional Road Development Comments

These roads access block LNK-814. This road was built in 2018/19.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.9	20	8	Dry/Frozen	15

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
SPL/Quota Holder	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	This road will remain open for future harvest. Closure on road KTC-7A will block access into this area. Crossing LNK-C14 will be removed after harvest and renewal is complete.

LNK-7B-1A

Additional Road Development Comments

This road accesses block LNK-834. This road follows an old fire guard which the trapper uses.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.5	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Debris	Slash and	Berm	Earth	Gate	Site Prep	None	Additional Road Closure Comments
SPL/Quota Holder	Post-Harvest Post-Renewal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	This road will remain open. This road is used by the trapper to access his trapline. Closure on road KTC-7A will block access into this area.

Roads

Madge Lake

MGL-10A and 10B (existing)

Additional Road Development Comments

This road accesses block MGL-029.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.7	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Slash and Debris	Slash and Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with slash and debris after harvest. The crossing will also be removed restricting access.



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WATER CROSSING PRESCRIPTION

FML 3 2023 - Proposed Crossings

Crossing Name: LNK-C15		Ownership: SPL/Quota Holder	
Operating Area:	Line Lake	Contingency Crossing:	<input type="checkbox"/>
UTM Northing:	5734851	UTM Easting:	363560
Stream Type:	Permanent	Land Description:	NW17-32-25W
Watercourse Name:	Ketchum Creek	Crossing Inspection Date:	03-June-2020
Channel Width (m):	4.0	Stream Assessment Required:	
Water Depth (m):	0.40	Stream Assessment Complete:	
Road Name:	LNK-1D		

Site Description:

Crossing is a permanent stream in mixedwood stand with organic/clay substrate. There is an old dam at the crossing. Bait fish were seen at the crossing location.

General Considerations:

SPL/Quota Holder will follow DFO Operational Statement for clear span bridges.

Crossing Structure:

Crossing Lifespan:

	<u>Preferred</u>	<u>Alternate</u>
Ice Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Portable Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rail Car Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Timber Bridge	<input type="checkbox"/>	<input type="checkbox"/>
Snow and Ice Xing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arch Culvert	<input type="checkbox"/>	<input type="checkbox"/>
Round Culvert	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Crossing:	<input type="checkbox"/>
<input type="text"/>	to <input type="text"/>
Permanent Crossing:	<input checked="" type="checkbox"/>
Proposed Install Date:	<input type="text" value="01 July, 2023"/>
Crossing Duration:	<input type="text" value="3"/> Years
Remove after Renewal Activities:	<input type="checkbox"/>

Installation & Removal Notes:

A minimum 30 foot bridge is required due to presence of bait fish. A 40 or 50 foot bridge may be more appropriate. This will be determined when actual crossing is going to be installed.

After harvest is completed the portable bridge will be removed and the road approaches will be recontoured to a near natural slope. If required the area will be seeded with grass and erosion control matting or straw mulch will be used to further stabilize the site.

If a snow and ice crossing is used after harvest is completed the surface of the snow and ice crossing will be cleaned off and a trench will be constructed to allow for flow during the spring melt. The snow and ice crossing will melt and the area will return to near natural conditions.

PROPOSED CROSSING LNK-C15

	Across
No Photo Available Photo will be supplied prior to crossing use.	Upstream
	Downstream



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: LNK-801	Twp & Rge: t32r25w	Cut Block Size: 44.9 ha
OPERATING AREA: Line Lake	Ownership: Open Crown	Mapsheet: 360573
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder/SPL

HARDWOOD VOLUME (m3): 4,891
 SOFTWOOD VOLUME (m3): 2,565

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Feature	Width (m)	Details
1	Flood	MFZ	Located on the W side. Structure will be maintained. Harvest as shown on map.
2	Stream	15	Located on the SE side. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 359 to 538 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 Maintain a max of 8 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Regeneration	First	2034

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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Line Lake - LNK-801



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: LNK-810	Twp & Rge: t32r25w	Cut Block Size: 86.5 ha
OPERATING AREA : Line Lake	Ownership: Open Crown	Mapsheet: 360573
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	110	25.3	41	47%	87	7,566
BA		21.4	38	14%	27	2,316
WB		15.5	28	1%	1	125
Total HW				62%	116	10,007
WS	108	20.7	40	9%	17	1,484
BS	111	17.5	22	25%	46	3,987
JP	96	20.1	27	4%	7	583
BF		18.0	24	0%	1	77
Total SW				38%	71	6,131
Block Total:					187	16,138

Understory Stems/ha and Distribution					
WS		BS		BF	
111	Clumped	111	Clumped	56	Clumped

Eco Land Classification	1st			2nd			3rd		
	V Type			Eco Site			Soils Summary		
	LFH(cm)	S-Type	Moisture	Surface Texture					
	08	18	05	08	S6	2	Loam		
	33								

Cover Type: N	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder/SPL

HARDWOOD VOLUME (m3): 9,507
 SOFTWOOD VOLUME (m3): 5,824

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

1	2	3
Lake	15-50	Ketchum Lake located on the E side. Variable 15 to 50m buffer. Harvest as shown on map.
Lake	15-30	Located on the S side. Variable 15 to 30m buffer. Harvest as shown on map.
Stream	15-100	Ketchum Creek located on the N side. Variable 15 to 100m buffer. Harvest as shown on map.

NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 692 to 1,038 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

To benefit the regeneration of both planted softwood seedlings and natural regeneration of hardwoods by suckering, it is recommended that all hardwood trees be harvested (except in wildlife tree patches). Selective harvesting of only the softwood trees would leave behind significant amounts of hardwood canopy. Selective harvesting of only the hardwood trees for logs would leave behind significant amounts of debris and hardwood canopy. In mixed wood and softwood blocks the number of acceptable planting microsites would be reduced, and the hardwood canopy could reduce softwood seedling growth and hardwood regeneration. In hardwood blocks the residual hardwood canopy and debris could reduce hardwood regeneration and reduce potential for softwood renewal.

Areas of blowdown throughout the block. Merchantable trees will be salvaged if operationally feasible.

Maintain a max of 17 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.

Maintain trappers trail through North, central and east portions of block. Keep trail open and free of logging debris.

Line Lake



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input checked="" type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	1600	30600
2023	Sp	WS	1600	10080

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

Area of WS understory >500 stems/ha and <6m in height is located in the SE portion of the block (plot 1). Clumps of understory will be protected in patches.

Areas of BS understory >500 stems/ha are located in the central portion of the block (plots 9 and 21). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

Area of BF understory >500 stems/ha and <6m in height is located in the SE portion of the block (Plot 9). This area will be harvested with concentrated clumps of BF being maintained.

Ensure ATV access

Majority of trees BEING PLANTED on the West side of the BLOCK.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/30/20
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Shouldn't Advanced BS Renewal be checked?

This is a computer generated response that cannot be edited.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: LNK-811	Twp & Rge: t32r26w	Cut Block Size: 112.2 ha
OPERATING AREA: Line Lake	Ownership: Open Crown	Mapsheet: 360573
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	90	23.5	41	32%	74	8,249
BA		19.5	33	11%	25	2,781
WB				0%	0	0
Total HW				42%	98	11,030
WS	103	21.4	35	35%	81	9,133
BS	92	16.8	19	22%	51	5,776
JP		18.5	36	0%	1	70
BF				0%	0	0
Total SW				58%	133	14,979
Block Total:					232	26,009

Understory Stems/ha and Distribution					
WS		BS		BF	
352	Uniform	212	Clumped		

Eco Land Classification	1st			2nd			3rd		
	V Type								
	08			13			18		
Eco Site	31								

Soils Summary			
LFH(cm)	S-Type	Moisture	Surface Texture
09	S6	2	Silt Loam

Cover Type: M	IBWC Cnt: 2
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder/SPL

HARDWOOD VOLUME (m3): 10,748
 SOFTWOOD VOLUME (m3): 14,230

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	2	3	4
Flood	MFZ	Located on the NW side. Flood is expanding. Structure will be maintained. Harvest as shown on map.	
Stream	50-100	Ketchum Creek located on the NW side. Variable 50 to 100m buffer. Harvest as shown on map.	
Wetland	30	Located on the S side. Harvest as shown on map.	
Wetland	15-30	Stream/wetland complex located on the W side. Variable 15 to 30m buffer. Harvest as shown on map.	

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 898 to 1,347 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Maintain a max of 20 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.
 Maintain structure on IBWC's located near plots 29 and 26.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: M

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input checked="" type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	1800	63000
2023	Sp	WS	1800	96840

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

The whole block is being planted, ensure ATV access for seedling delivery.

Areas of WS understory >500 stems/ha and <6m in height are located in the central and N portions of the block (plots 7, 11, 17, 19, 27, 33, 43 and 49). Clumps of understory will be protected in patches.

Areas of BS understory >500 stems/ha are located in the W portion of the block (plots 3, 21 and 29). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 9/15/21
<input type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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Line Lake - LNK-811



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: LNK-813	Twp & Rge: t32r25w	Cut Block Size: 66.7 ha
OPERATING AREA: Line Lake	Ownership: Open Crown	Mapsheet: 360573
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	94	23.3	36	51%	111	7,395
BA		19.0	33	15%	32	2,130
WB				0%	0	0
Total HW				66%	143	9,525
WS	78	19.4	32	21%	45	2,987
BS	110	15.9	21	13%	29	1,953
JP		20.0	26	0%	1	58
BF				0%	0	0
Total SW				34%	75	4,998
Block Total:					218	14,523

Understory Stems/ha and Distribution					
WS		BS		BF	
257	Uniform	157	Clumped		

Eco Land Classification	1st			2nd			3rd		
	V Type			Eco Site			Soils Summary		
	LFH(cm)	S-Type	Moisture	Surface Texture					
	08	30	17	03	S5	2	Loam		
	34	33		06	S6	2	Silty Clay Loam		

Cover Type: N	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder/SPL

HARDWOOD VOLUME (m3): 9,049
 SOFTWOOD VOLUME (m3): 4,748

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

FEATURE	WIDTH (m)	DETAILS
1 Lake	30-75	Located in the SE corner. Variable 30 to 75m buffer. Harvest as shown on map.
2 Lake	15-30	Located on the NE side. Variable 15 to 30m buffer. Harvest as shown on map.

NOTE : IBWC = In Block Water Course

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 533 to 800 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

To benefit the regeneration of both planted softwood seedlings and natural regeneration of hardwoods by suckering, it is recommended that all hardwood trees (except wildlife tree patches of course) be harvested. Selective harvesting of only the softwood trees would leave behind significant amounts of hardwood canopy. The number of acceptable planting microsites would be very low, and the hardwood canopy could reduce the softwood seedlings growth. Therefore, harvesting of both the softwood and hardwood trees will assist in maintaining the softwood portion of hardwood-spruce mixedwoods.

Area of blow down on the east side near plot 6. Merchantable trees will be salvaged if possible.

Maintain a max of 13 WDP's approximately 30-70 m from block edge and where possible adjacent to swd stands outside of block.

Line Lake



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: N

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	1600	18000
2023	Sp	WS	1600	29880

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

Areas of WS understory >500 stems/ha and <6m in height are located in the N and central portions of the block (plots 15, 19 and 23). Clumps of understory will be protected in patches.

Areas of BS understory >500 stems/ha are located in the SE portion of the block (plots 3 and 7). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

Planting W side of block

Ensure roads open for ATV access. Potential helicopter blocks, so ensure some landing left open with little or no debris.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/18/19
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

Block prescription comment "to benefit renewal". Does LP plan on declaring wood from blk.	This is a standard comment for N-M stands. Quota holder allocations will be used for wood within the park, but the comment is needed in case arrangements with quota holders fall through.	<input checked="" type="checkbox"/>
Allow only one central ATV access to be left open. Close by July 31 of planting year.	Leave main road open, gate will be closed.	<input checked="" type="checkbox"/>



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: LNK-814	Twp & Rge: t32r25w	Cut Block Size: 82.4 ha
OPERATING AREA: Line Lake	Ownership: Open Crown	Mapsheet: 360573
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA		19.8	37	5%	9	733
BA	64	18.4	27	17%	33	2,686
WB				0%	0	0
Total HW				22%	42	3,419
WS	79	19.8	31	34%	65	5,357
BS	90	17.3	22	41%	78	6,424
JP	77	18.6	38	4%	7	614
BF				0%	0	0
Total SW				78%	150	12,395
Block Total:					192	15,814

Understory Stems/ha and Distribution					
WS		BS		BF	
83	Clumped	233	Uniform	117	Clumped

Eco Land Classification	1st			2nd			3rd		
	V Type			Eco Site			Soils Summary		
	LFH(cm)	S-Type	Moisture	Surface Texture					
	13	17	30	08	S3	1	Silty Sand		
	23	36	52	10	S3	2	Sandy Loam		
				07	S5	2	Silty Sand		
				17	S5	2	Silty Sand		

Cover Type: S	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder/SPL

HARDWOOD VOLUME (m3): 1,714
 SOFTWOOD VOLUME (m3): 5,888

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE: IBWC = In Block Water Course

1	Wetland	30-50	Located on SW corner. Variable 30 to 50m buffer. Harvest as shown on map.
2	Wetland	30	Located on N side. Harvest as shown on map. Assess for selective cutting in RZ when harvesting block.
3	Wetland	30	Located on S side. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 659 to 988 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

To benefit the regeneration of both planted softwood seedlings and natural regeneration of hardwoods by suckering, it is recommended that all hardwood trees be harvested (except in wildlife tree patches). Selective harvesting of only the softwood trees would leave behind significant amounts of hardwood canopy. Selective harvesting of only the hardwood trees for logs would leave behind significant amounts of debris and hardwood canopy. In mixed wood and softwood blocks the number of acceptable planting microsites would be reduced, and the hardwood canopy could reduce softwood seedling growth and hardwood regeneration. In hardwood blocks the residual hardwood canopy and debris could reduce hardwood regeneration and reduce potential for softwood renewal.

Approximately half this block was harvested in 2018-19. The volumes shown indicate this.

This block has moderately undulating topography.

Alder, rose, raspberry, beaked hazel and blue-joint grass are present in the block.

There are patches of blow down in this block. Merchantable material will be salvaged only if possible.

Maintain a max of 8 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.

Maintain structure on IBWC's located near plots 13 and 18 in the SE corner of the block.

Harvest this block after LNK-815 and 834 are cut.

Line Lake



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: S

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	2000	59520
2023	Sp	WS	2000	39600

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2032

RENEWAL COMMENTS/ISSUES:

Leave ATV access on roads as agreed upon by MFSRC and the supervising officer

Ensure roads KTC-7A, &B, LNK-7C, 7D, 7E are ATV accessible for entry into block LNK-814

Area of WS understory >500 stems/ha and <6m in height is located in the W portion of the block (plot 24). Clumps of understory will be protected in patches.

Area of BF understory >500 stems/ha and <6m in height is located in the W central portion of the block (Plot 16). This area will be harvested with concentrated clumps of BF being maintained.

Areas of BS understory >500 stems/ha are located in the S portion of the block (plots 4, 6 and 12). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/31/14
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Increase leave areas on wetlands to 30m RZ for wildlife habitat.</p> <p>Consider harvesting a 100m corridor only until 834 and 815 are harvested.</p>	<p>Already 30m for much of the wetlands in the S. Can increase the rest of the buffers. Will assess for selective harvest along N end at time of harvest. Can start in 834 and 815 and harvest 814 on the way out.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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Line Lake - LNK-814



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: LNK-819	Twp & Rge: t32r25w	Cut Block Size: 57.3 ha
OPERATING AREA: Line Lake	Ownership: Open Crown	Mapsheet: 360573
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder/SPL

HARDWOOD VOLUME (m3): 7,787
 SOFTWOOD VOLUME (m3): 4,084

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	30-50	Ketchum Creek located on the S side. Variable 30 to 50m buffer. Harvest as shown on map.
2	Stream	15-50	Stream/wetland complex located on the W/NW side. Variable 15 to 50m buffer. Harvest as shown on map.
3	Wetland	15	Located on the E side. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 459 to 688 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 Maintain a max of 11 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Plantation Survival	First	2025
Regeneration	First	2034

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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Line Lake - LNK-819



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

Cut Block Name: LNK-834	Twp & Rge: t32r26w	Cut Block Size: 24.2 ha
OPERATING AREA: Line Lake	Ownership: Open Crown	Mapsheet: 360573
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	62	21.3	37	27%	50	1,218
BA		17.6	24	10%	19	468
WB				0%	0	0
Total HW				37%	70	1,686
WS	76	20.2	33	41%	77	1,874
BS		16.1	19	15%	28	672
JP				0%	0	0
BF		17.5	25	6%	12	294
Total SW				63%	117	2,840
Block Total:					187	4,526

Understory Stems/ha and Distribution					
WS		BS		BF	
243	Uniform	243	Clumped	600	Uniform

Eco Land Classification	1st			2nd			3rd		
	Soils Summary								
	LFH(cm)	S-Type	Moisture	Surface Texture					
V Type	13	21	05	17	S3	1	Silty Sand		
Eco Site	23	11		09	S4	2	Silt Loam		
				09	S2	1	Loamy Sand		

Cover Type: M	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder/LP
 SOFTWOOD ALLOCATION: Quota Holder/SPL

HARDWOOD VOLUME (m3): 1,602
 SOFTWOOD VOLUME (m3): 2,698

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	15-50	Located on S and N sides. Variable 15 to 50m buffer. Harvest as shown on map.
2	Lake	15-50	Lakes located on NE and SE side. Variable 15 to 50m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 194 to 291 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

To benefit the regeneration of both planted softwood seedlings and natural regeneration of hardwoods by suckering, it is recommended that all hardwood trees be harvested (except in wildlife tree patches). Selective harvesting of only the softwood trees would leave behind significant amounts of hardwood canopy. Selective harvesting of only the hardwood trees for logs would leave behind significant amounts of debris and hardwood canopy. In mixed wood and softwood blocks the number of acceptable planting microsites would be reduced, and the hardwood canopy could reduce softwood seedling growth and hardwood regeneration. In hardwood blocks the residual hardwood canopy and debris could reduce hardwood regeneration and reduce potential for softwood renewal.

Alder, rose and raspberry are present in the block.

This block has moderately undulating topography.

There are patches of blow down in this block. Merchantable material will be salvaged only if possible.

Maintain a max of 5 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: M

RENEWAL ACCESS

<input checked="" type="checkbox"/>	ATV
<input checked="" type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total
2023	Sp	BS	1800	5760
2023	Sp	WS	1800	23040

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Reforestation	First	2033

RENEWAL COMMENTS/ISSUES:

Area of BS understory >500 stems/ha is located in the SW portion of the block (plot 2). Merchantable trees will be harvested and unmerchantable trees will be left unharvested in patches.

Road closure to accommodate ATV access as agreed upon by MFSRC and the supervising officer

Ensure road KTC-7A, 7B, 7C, LNK-7C-1 are ATV accessible for entry into block LNK-834

Areas of WS understory >500 stems/ha and <6m in height are located in the central and E portions of the block (plots 1 and 4). Clumps of understory will be protected in patches.

Areas of BF understory >500 stems/ha and <6m in height are located in W portion of the block (Plots 5, 6, 9 and 12). These areas will be harvested with concentrated clumps of BF being maintained.

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

<input checked="" type="checkbox"/>	PLANNING
<input checked="" type="checkbox"/>	WILDLIFE
<input checked="" type="checkbox"/>	SILVICULTURE

EXTERNAL REVIEW

<input checked="" type="checkbox"/>	SUBMITTED TO IRMT on 10/31/14
<input checked="" type="checkbox"/>	ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Increase buffers on lakes/streams/wetlands to 30m RZ to ensure habitat.</p>	<p>Increase to 15 to 50m variable RZ.</p>
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Line Lake - LNK-834



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

Cut Block Name: LNK-835	Twp & Rge: t32r25w	Cut Block Size: 41.0 ha
OPERATING AREA: Line Lake	Ownership: Open Crown	Mapsheets: 360573
LICENCE: FML 3	Management Unit: 13	Land Status: Resource MGMT

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA				0%	0	0
BA				0%	0	0
WB				0%	0	0
Total HW				0%	0	0
WS				0%	0	0
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				0%	0	0
Block Total:					0	0

Understory Stems/ha and Distribution					
WS		BS		BF	

Eco Land Classification			Soils Summary				
	1st	2nd	3rd	LFH(cm)	S-Type	Moisture	Surface Texture
V Type							
Eco Site							

Cover Type:	IBWC Cnt: 0
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: Quota Holder
 SOFTWOOD ALLOCATION: Quota Holder/SPL

HARDWOOD VOLUME (m3): 4,674
 SOFTWOOD VOLUME (m3): 4,100

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Stream	MFZ-30	Stream/wetland complex located along the S side. Variable MFZ to 30m buffer. Harvest as shown on map.
2	Stream	15-50	Stream/wetland complex located along the N side. Variable 15 to 50m buffer. Harvest as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 328 to 492 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

This block has not been surveyed. The volume information is based on surveyed blocks in the area.
 Maintain a max of 8 WDP's approximately 30-70 m from block edge and where possible adjacent to softwood stands outside of block.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2023 - Contingency

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE:

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Plantation Survival	First	2024
Regeneration	First	2033

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

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Line Lake - LNK-835



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Integrated Operations by Operating Area

Plan(s): FML 3 2022 - Harvest, FML 3 2022 - Contingency, FML 3 2023 - Harvest, FML 3 2023 - Contingency

FMU 13

Madge Lake

MGL-029	92.02 Hectares	2022 Harvest
HW Allocation	8,460 m3	LP
SW Allocation	113 m3	SPL











Madge Lake Operating Area

Four Corners (FRC)

MGL-029

Duck Mountain
Park (DMP)

Madge Lake (MGL)

Proposed Crossings		Harvest Areas	
	Proposed Bridge		2022 - Harvest
	Proposed Crossing, Other		2022 - Contingency
	Proposed Crossing, Stream		2023 - Harvest
	Proposed Culvert, Other		2023 - Contingency
	Proposed Culvert, Stream		2024-2026 - Harvest

NOTE: FOR OTHER MAP SYMBOLS, SEE HARVEST OVERVIEW MAP.

Roads

Madge Lake

MGL-10A and 10B (existing)

Additional Road Development Comments

This road accesses block MGL-029.

Road Development:

Road Length (km)	ROW Width (m)	Road Surface Width (m)	Season of Use	Lifespan of Road (yrs)
0.7	20	8	Dry/Frozen	1

Road Deactivation:

Road Closure Responsibility		Crossing Removal	Slash and Debris	Slash and Earth Berm	Gate	Site Prep	None	Additional Road Closure Comments
LP	Post-Harvest Post-Renewal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This road will be closed with slash and debris after harvest. The crossing will also be removed restricting access.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

Cut Block Name: MGL-029	Twp & Rge: t31r29w	Cut Block Size: 92.0 ha
OPERATING AREA: Madge Lake	Ownership: Open Crown	Mapsheet: 320573
LICENCE: FML 3	Management Unit: 13	Land Status:

PRE-HARVEST SURVEY INFORMATION

Species	Avg Age (yr)	Avg Ht (m)	Avg DBH (cm)	Vol %	m3/ha	Vol (m3)
TA	86	21.3	28	87%	169	15,557
BA	80	19.1	32	9%	18	1,613
WB		16.2	22	3%	6	533
Total HW				99%	192	17,703
WS	106	22.8	42	1%	3	234
BS				0%	0	0
JP				0%	0	0
BF				0%	0	0
Total SW				1%	3	234
Block Total:					195	17,937

Understory Stems/ha and Distribution					
WS		BS		BF	
24	Clumped				

Eco Land Classification	Soils Summary		
	1st	2nd	3rd
V Type	05		
Eco Site	32		

LFH(cm)	S-Type	Moisture	Surface Texture
07	S5	2	Clay Loam
05	S5	2	Silty Clay Loam

Cover Type: H	IBWC Cnt: 3
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HARVEST PRESCRIPTION INFORMATION

HARDWOOD ALLOCATION: LP
 SOFTWOOD ALLOCATION: SPL

HARDWOOD VOLUME (m3): 8,460
 SOFTWOOD VOLUME (m3): 113

HARVEST SEASON

- ALL SEASON
- FROZEN
- DRY/FROZEN

HARVEST/SILVICULTURE SYSTEM

- CLEARCUT
- SELECTION
- SEED TREE
- SALVAGE
- SHELTERWOOD
- UNDERSTOREY PROTECTION
- AVOIDANCE
- PATCH RETENTION
- DESIGNATED SKID TRAILS

SLASH ABATEMENT

- WHOLE TREE
- PILE & BURN
- WLF DEBRIS PILE
- WHOLE TREE TOP AT STUMP

BUFFER INFORMATION

FEATURE WIDTH (m) DETAILS

NOTE : IBWC = In Block Water Course

1	Wetland	MFZ	Located on S side. Structure will be maintained. Flag as shown on map.
2	Ephemeral Drain	15	Located along E side. Flag as shown on map.

WILDLIFE TREE RETENTION: As per Standard Operating Guidelines leave approximately 736 to 1,104 trees.

SEVERE EROSION RISK POTENTIAL:

HARVEST COMMENTS/ISSUES:

Approximately half this block was harvested in 2021/22. The volumes shown indicate this.

Harvest of this block will be deferred until harvest in Duck Mountain Provincial Park, Saskatchewan is completed. The access to Saskatchewan is through this block.

Structure will be maintained along IBWC's located near plots 22, 34, 38 and 42. These are all small ephemeral drains.

Half of this block was harvested in 2021/22 and stockpiled. Wood was hauled in the spring of 2022. The remainder of this block may be harvested in February or March 2023 and stockpiled for hauling in the spring of 2023.



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PRE-HARVEST CUT BLOCK PRESCRIPTION

FML 3 2022 - Harvest

RENEWAL PRESCRIPTION INFORMATION

RENEWAL STRATEGY BY SPECIES

Species	Natural	Advanced	Assisted
TA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE PREPARATIONS

PREF.	ALT.	
<input type="checkbox"/>	<input type="checkbox"/>	DRAG
<input type="checkbox"/>	<input type="checkbox"/>	MOUND
<input type="checkbox"/>	<input type="checkbox"/>	TRENCH
<input type="checkbox"/>	<input type="checkbox"/>	WINTER RIPPER
<input type="checkbox"/>	<input type="checkbox"/>	AREA PLANT

SNOW CACHE:

RENEWAL COVERTYPE: **H**

RENEWAL ACCESS

<input type="checkbox"/>	ATV
<input type="checkbox"/>	HELICOPTER
<input type="checkbox"/>	TRUCK

Siteprep Summary			
Year	Action	Area (ha)	Alternate

Planting Summary				
Year	Season	Species	Density	Total

Survey Summary		
Type	Series	Year
Reforestation	First	2027

RENEWAL COMMENTS/ISSUES:

PRESCRIPTION REVIEW AND MITIGATION

INTERNAL REVIEW

- PLANNING
- WILDLIFE
- SILVICULTURE

EXTERNAL REVIEW

- SUBMITTED TO IRMT on **11/11/16**
- ALL IRMT CONCERNS MITIGATED

IRMT Concerns and Comments:

Mitigation Strategy:

Mitigated

<p>Discuss accessing from the N through ALP block.</p>	<p>Discussed. Will show both accesses and determine which is the best option in the field. Will depend on flooding and season of harvest. Both accesses investigated. The access from the N is not practical. Will access from the existing road on the SE side.</p>	<input checked="" type="checkbox"/>
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