

Date: April 4th, 2024

**P.E.I.
Public Forests**



Woodlot Management Plan

Property Number: 59139

Location: Derby

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Goals and Management Objectives

Forest Management on Prince Edward Island (P.E.I.) means different things to different people. Public Forest Lands are managed for a variety of reasons including timber and non-timber values, wildlife enhancement, soil and water preservation, demonstration techniques, training and recreation and aesthetics.

The primary goal for management of P.E.I. Public Forest Land is to enhance the overall forest quality. To accomplish this, it may be necessary to remove some of the lower quality trees on the property and nurture those of higher quality. This will in turn improve genetic quality, species distribution and diversity through careful tree selection and natural regeneration. Allowing acceptable growing stock the chance to thrive and provide a seed source for the surrounding areas will ensure that quality natural regeneration has an opportunity to establish. Enhancement or enrichment planting may be necessary in areas where there is inadequate or unsuitable natural regeneration. Trees native to P.E.I. that are suitable to the site conditions will be chosen for any required reforestation on the property. Prescribing treatments in some stands while leaving others untreated will provide for a range of forest types. Converting stands from a single species to multiple species is desirable. This can be accomplished by retaining some of the natural regeneration in areas that have been previously planted and by planned tree selection in stand improvement treatments. Planted and natural stands on the property will be assessed for health and growth of desired species on an on-going basis. This information will be used to determine when and where future treatments will be carried out. Through time, a favourable healthy mixture of short-lived and long-lived species will provide for an abundance of quality forest products, biodiversity, wildlife, and recreational opportunities as well as a range of ecological goods and services (such as clean air and water).

Property Overview

Location

Property # 59139 is located on the Beaton Road, Highway 138 near the community of Derby, P.E.I., (Appendix A). The total area of this property is 41.7 hectares (103 acres) and the midpoint of the property is Latitude N 46.635849 decimal degrees, Longitude W -64.159070 decimal degrees.

Past Information

Local records and previous aerial photography show that majority of the property was used for agricultural purposes early in the 20th century, excepting approximately 8 hectares consisting of old forest along the western property boundary that exceeds east moving northward towards the wetland. To better illustrate this 1935 and 1968 photography can be seen in Appendix B and Appendix C.

Property Information

The information in Appendix D has been taken from the 2020 Corporate Land Use Inventory. An explanation of forestry code meanings can be seen in Appendix E. Any stands that have proposed silvicultural treatment prescriptions are to have on-ground stand assessments completed prior to any work being started. This on-ground assessment information is included in this plan as updated stand tally sheets (Appendix F) and supplements the extrapolated data where applicable. A topographic map of the property shows the general terrain profile, the ranges in elevation and the plantations currently on the property (Appendix G).

Wetland and Watercourses

There is a wooded wetland and an open water wetland with a stream running through it located in northern portion of the property (Appendix A). A 15-metre buffer zone is to be maintained around all designated wetlands and watercourses.

Property Access

The property is accessed from the Beaton Rd. A culvert was installed, and landing was constructed for logging trucks to pull off the road and safely load stockpiled wood. The existing road for this property can be seen on Appendix A. Contractor may want to reach out to neighbouring landowner for safe passage for the extraction of wood product on site.

Property Boundaries

This property fronts the Beaton Rd. on the south excepting a small parcel of private land. It is bounded on the east and west by private land and by public land to the north. Beaton Creek is near the northeast boundary of the stand.

Fire Protection

This property is located within the jurisdiction of the O'leary Fire Department. The amount of personnel and equipment used to fight any forest fires will depend greatly upon the size and severity of the fire. Protection of our woodland from forest fire is the responsibility of the Forests, Fish and Wildlife Division and our local community fire brigades. In the Western District, there are four-wheel drive forestry fire trucks housed at the Wellington and West Point Fire Departments. These heavy-duty trucks are available to assist the local fire department responsible for this area. Additional forestry fire trucks, off road tracked vehicles, portable pumps and specialized forest fire suppression equipment are available if

needed. A stream at the north eastern boundary would be a suitable site to setup a portable fire pump system.

Planting and Silviculture

There are nine plantations on the property. It is recommended that any trees planted on the property be assessed at regular intervals. These assessments will determine if the planted trees require manual maintenance or fill planting as specified in the ECOSYSTEM-BASED FOREST MANAGEMENT STANDARDS MANUAL (“Eco-Manual”). A list of all silviculture treatments completed on the property from 1991 to present is shown in Appendix H.

Proposed Treatments

The 2006 Forest Policy “Moving to Restore a Balance in Island Forests” lays out the framework for Public Land Forest management. The Eco-Manual provides details for prescribed treatments. All work completed on this property must comply with that manual. Although all stands were assessed, only specific stands were prescribed treatments to accomplish goal(s) within the next 10 years. Table 1 provides a summary of these proposed treatments. Proposed treatments may be updated in 5 years, when the 10-year period expires, or due to unforeseen events. This table will be updated as required when additional treatments are prescribed. For a better understanding of the treatments prescribed, a more detailed explanation is available in the ECOSYSTEM-BASED FOREST MANAGEMENT STANDARDS MANUAL (“Eco-Manual”)

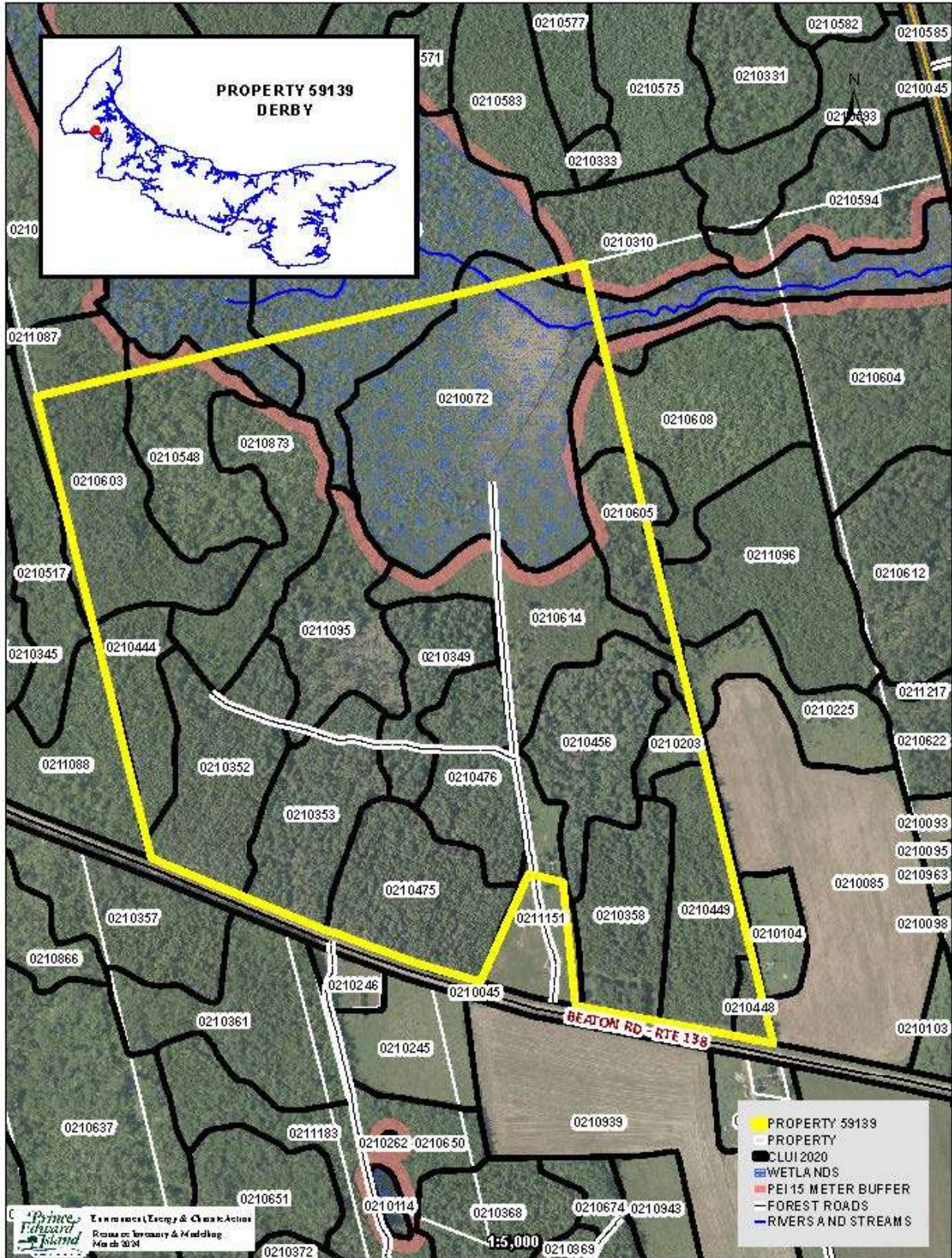
www.princeedwardisland.ca/sites/default/files/publications/2018_eco_manual_technical_version_-_final.pdf. Any additional information may be obtained by contacting a Provincial Forest representative at the District Forestry Office in Wellington.

Table 1. Proposed Treatment Summary

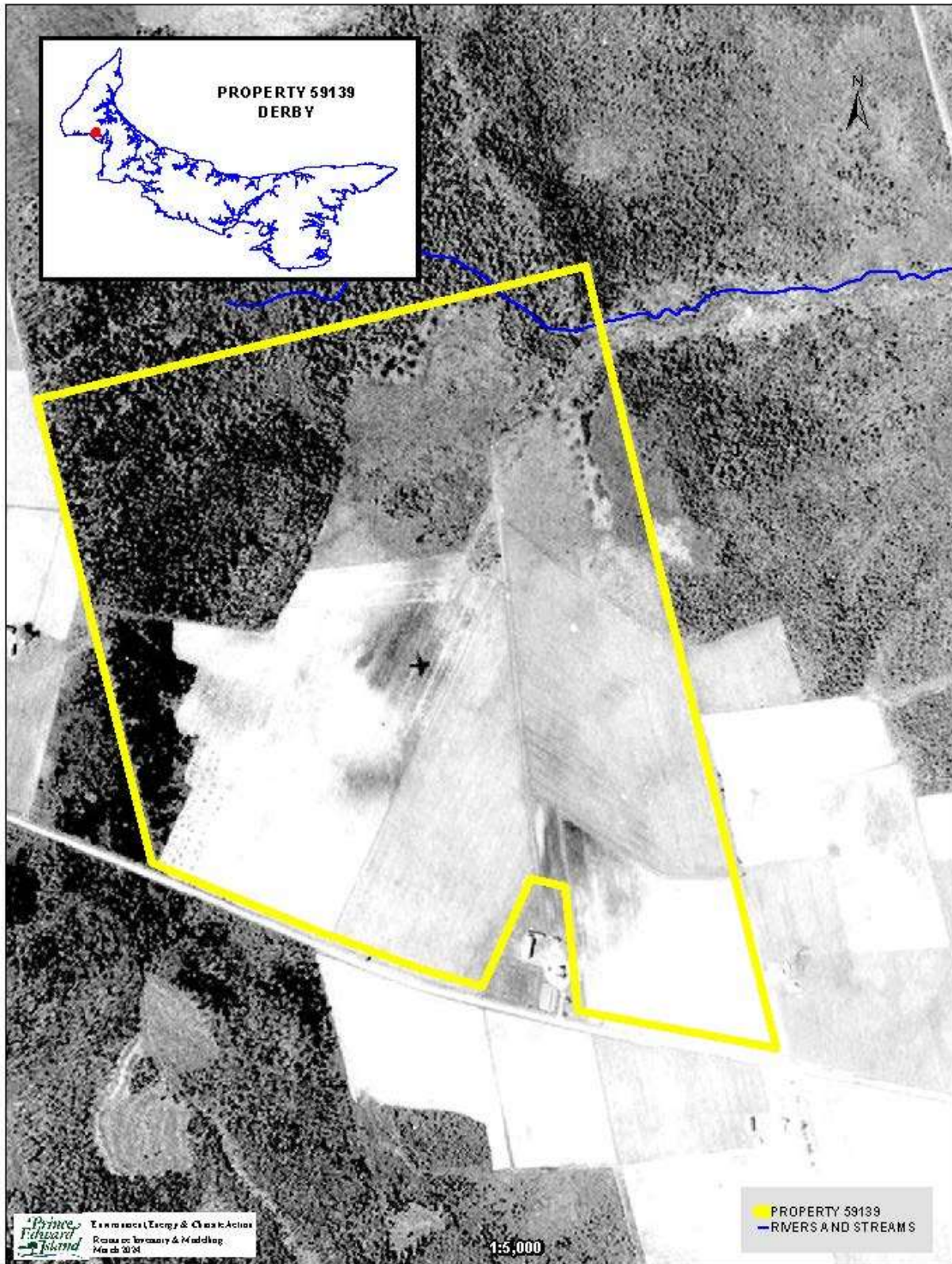
Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	2018 Eco-Manuel Reference	Comments	Goals
ST 210475 PN 3780001	Block Harvest	2024	2.59 ha	Pg. 30	LA and BS blowdown from hurricane Dorian & Fioana. Remove blowdown and leave windfirm hardwood stems as retention. Identify snags with wildlife potential and leave standing.	Capture Salvage Wood
ST 210353 & ST 211095 PN 3811711			3 ha			
ST 210352 PN 3801541			2.82 ha			
ST 210349 & ST 210476, PN 3780001	Block Harvest	2024	2 ha	Pg. 30	Blowdown from hurricane Dorian & Fiona. Leave any windfirm hardwood for retention.	Capture Salvage Wood
ST 210456	Block Harvest	2024	1.2 ha	Pg. 28	Blowdown from hurricane Dorian & Fiona. WS is still standing with LA blown down in strips. Leave any windfirm species for retention ie (RM,WB).	Capture Salvage Wood
ST 210548 & ST 210873, PN3080031	Manual Plantation Maintenance	2024	5 ha	Pg. 17	Remove declining & dead stems (WP). Also remove early successional species that area competing with planted stems(WB,GB,PO,PC,AL). White Pine Blister rust may be present	Thin for quality. Improve growth of crop trees & create multi cohort forest stand
ST 210358	Commercial Plantation Thinning	2024	2.08 ha	Pg. 25	WS plantation is very dense limiting stem growth. Thin WS density to release growth of crop trees.	Improve growth of WS plantation.
ST 210353, ST 211095, ST 210352, ST 210349, ST 210476, ST 210456 & PN 3780001, PN 3811711, PN 3801541,	Manual Site Preparation & Reforestation	2024	11.61 ha	Pg. 14 & Pg. 16	Create microsites for planting and Plant species ecologically suited for the site, species such as (WS,BS,LA,YB,RM,BA) If available. Poor drainage.	Establish plant sites . Create a Biodiverse site suitable for mature tree growth.
ST 210475	Manual Site Preparation & Reforestation	2024	2.59	Pg. 14 & Pg. 16	Create microsites for planting and Plant species ecologically suited for the site, species such as (YB, RS, WS, RM,WA,SM) If available. Moderate drainage.	Establish plant sites . Create a Biodiverse site suitable for mature tree growth.
ST 210475, ST 210353, ST 211095, ST 210352, ST 210349, ST 210476, ST 210456 & PN 3780001, PN 3811711, PN 3801541,	Manual Plantation Maintenance	2027	11.61 ha	Pg. 17	Eliminate intolerant hardwoods and tolerant species competing with plantation crop trees. Treat tolerant hardwoods that are not competing directly with plantation as crop trees. Eliminate undesirable competing vegetation.	Improve growth and success rate of crop trees to establish and develop into healthy stems capable of reaching maturity.
ST 210449 & ST 210203 PN 3010191 & PN 4010001	Commercial Plantation Thinning/Cleaning	2028	2 ha	Pg. 25	NS plantation at southern portion of stand is being outcompeted by intolerant Hardwood , crop trees have 90% LCR on average crop tree average DBH is above 12cm. However tree form is poor. Not crucial at this time something to think about in near future.	Improve growth of NS plantation.

Appendices

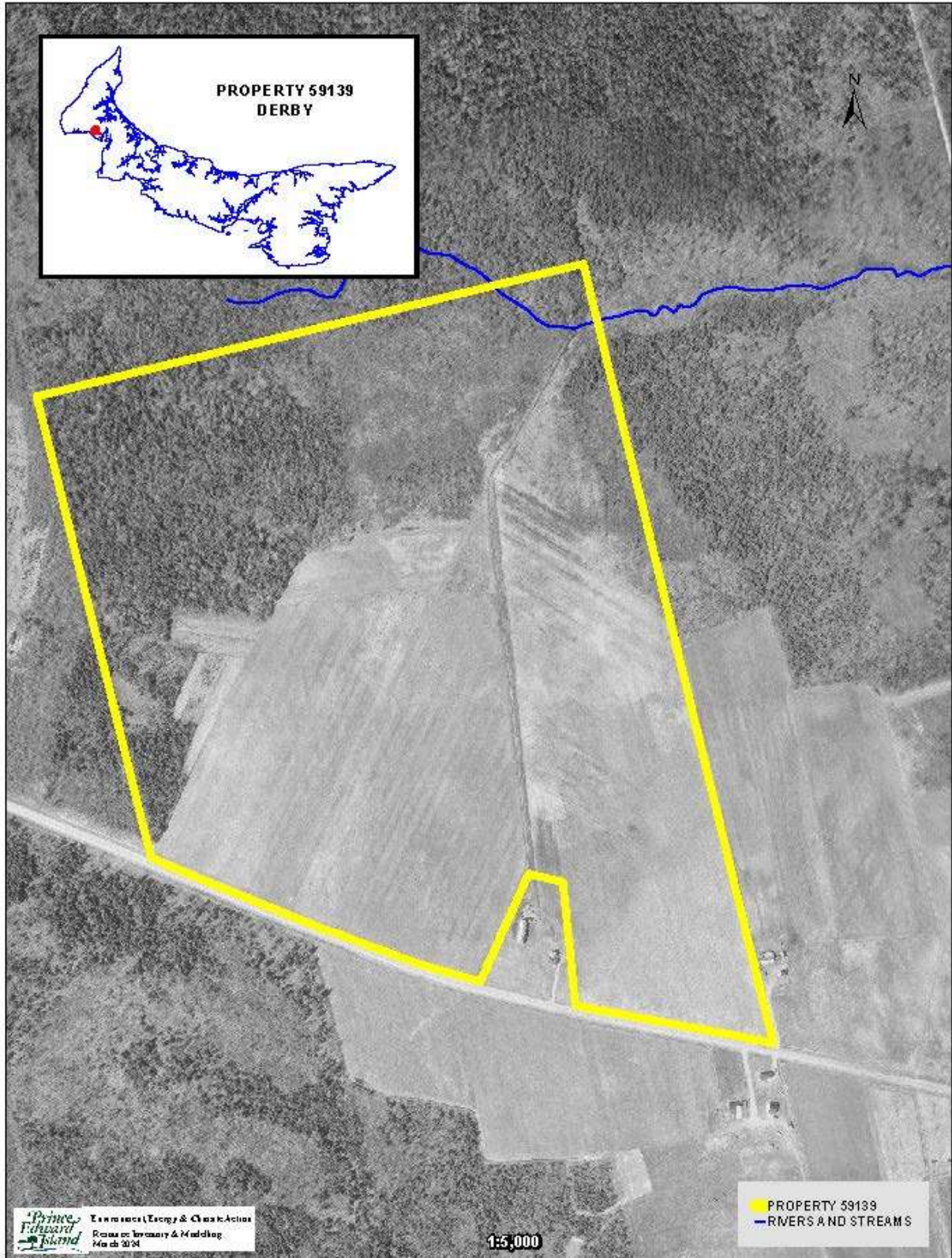
Appendix A. Map of Property with Locator Map



Appendix B. 1935 Aerial Photography



Appendix C. 1968 Aerial Photography



Appendix D. 2020 Corporate Land Use Inventory

FIELDID	COVER1	PER1	COVER2	PER2	COVER3	PER3	COVER4	PER4	COVER5	PER5	HEIGHT	CROWN	HECTARES	WOODSTOCK
0210352	LA	5.0	BS	2.0	GB	1.0	RM	1.0	BF	1.0	15.0	95.0	2.8	LASP
0210353	LA	9.0	BS	1.0		0.0		0.0		0.0	15.0	75.0	2.3	LAPR
0210358	WS	5.0	RP	3.0	RM	1.0	BF	1.0		0.0	9.0	65.0	2.1	SPBF
0210448	WS	9.0	BF	1.0		0.0		0.0		0.0	6.0	75.0	0.3	WSPR
0210449	NS	6.0	AL	2.0	GB	1.0	WS	1.0		0.0	7.0	75.0	2.1	SWMX
0210475	BS	7.0	LA	3.0		0.0		0.0		0.0	12.0	85.0	2.6	BSPR
0210476	LA	8.0	BS	2.0		0.0		0.0		0.0	13.0	80.0	1.9	LAPR
0211095	LA	10.0		0.0		0.0		0.0		0.0	15.0	30.0	2.3	LAPR
0210310	BF	4.0	RM	2.0	BS	2.0	PO	1.0	WS	1.0	12.0	85.0	0.1	SWMX
0210349	LA	10.0		0.0		0.0		0.0		0.0	16.0	75.0	1.5	LAPR
0210444	BS	5.0	BF	2.0	WB	1.0	RM	1.0	LA	1.0	11.0	85.0	1.4	SPBF
0210456	LA	8.0	WS	2.0		0.0		0.0		0.0	13.0	55.0	2.5	LAPR
0210548	RM	7.0	BF	2.0	PO	1.0		0.0		0.0	14.0	55.0	2.3	RMPR
0210603	RM	4.0	PO	3.0	LA	1.0	BF	1.0	GB	1.0	16.0	90.0	2.9	IHMX
0210604	RM	4.0	BS	2.0	PO	2.0	BF	1.0	WB	1.0	16.0	90.0	0.0	IHMX
0210605	WS	3.0	RM	3.0	PO	2.0	CE	1.0	WB	1.0	12.0	65.0	1.1	IHSW
0210608	BS	4.0	RM	2.0	LA	2.0	WB	1.0	WS	1.0	5.0	60.0	0.5	SWMX
0210614	AL	6.0	PC	2.0	RM	1.0	WS	1.0		0.0	4.0	75.0	2.6	IHMX
0210873	BF	5.0	RM	2.0	PO	1.0	WB	1.0	BS	1.0	6.0	75.0	2.4	BFIH
0211088	RM	4.0	AL	2.0	GB	2.0	BS	1.0	PO	1.0	6.0	70.0	0.0	IHMX
0211096	PO	3.0	RM	3.0	LA	2.0	BF	1.0	WB	1.0	7.0	90.0	0.0	IHMX
0210297	RM	5.0	BS	2.0	BF	1.0	CE	1.0	WB	1.0	12.0	60.0	0.4	IHSW
0211094	RM	5.0	BS	2.0	BF	2.0	LA	1.0		0.0	11.0	25.0	1.4	SWIH

Appendix E. Forest Inventory Codes

EXPLANATION OF FOREST CODES; SPECIES

WS	White Spruce	JL	Japanese Larch	WB	White Birch
BF	Balsam Fir	EL	European Larch	PO	Poplar
HE	Hemlock	NS	Norway Spruce	RM	Red Maple
WP	White Pine	PC	Pin Cherry	RO	Red Oak
RP	Red Pine	MA	Apple	WA	White Ash
JP	Jack Pine	SP	Scots Pine	EM	Elm
CE	Cedar	AP	Austrian Pine	GB	Gray Birch
LA	Larch	YB	Yellow Birch	AL	Alders
BS	Black Spruce	SM	Sugar Maple	LI	Linden
RS	Red Spruce	BE	Beech		

PERCENT

0	1 - 9%
1	10 - 19%
2	20 - 29%
3	30 - 39%
4	40 - 49%
5	50 - 59%
6	60 - 69%
7	70 - 79%
8	80 - 89%
9	90 - 100%

CROWN CLOSURE

A	91% - 100%
B	81% - 90%
C	71% - 80%
D	61% - 70%
E	51% - 60%
F	41% - 50%
G	31% - 40%
H	21% - 30%
I	11% - 20%
J	0% - 10%

ORIGIN AND HISTORY

BR	Burn	DI	Disease-Insect
WF	Wind Fall	OF	Old Field
PC	Partial Cut	PN	Plantation
CC	Clear Cut	HR	Hedgerow
TH	Thinning	EP	Excavation Pit

SAMPLE DESCRIPTIONS

FOREST STAND DESCRIPTIONS

75401 – Stand No.

SM5RM4 – Sugar Maple 50%, Red Maple 40%

WS1 12A – White Spruce 10%, Height, Crown Closure

OF – Origin History Old Field

Stand Numbering relates to the position of the stand within a 100 X 100 grid cell overlay with the minimum values in the southwest corner and the maximum values in the northeast corner.

A stand labeled 75 40 1 would be positioned within easting grid 75 and northing grid 40 and would be the first stand within that grid cell.

NON-FOREST LAND TYPES

BO	Bog	AL	Alders
CL	Clear Land	FL	Flowerage
SO	Swamps – Open	AG	Agricultural Land
EP	Excavation Pit	SD	Sand Dune
PL	Power Line	UR	Urban
C	Cemetery	WW	Water

FOREST GROUND CONDITION

SW	Wet – Swampy
ST	Steep
SY	Sandy

Appendix F. Stand Tally Sheets from on the Ground Assessment

STAND TALLY SHEET														
CRUISER Mac Buchanan				STAND #		210352		PLANTATION #				3801541		
PROPERTY #		59139		AREA		2.82 ha		Date		23 / 2 / 2024				
								D		M Y				
SAMPLE TREE INFORMATION														
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%			
1	BS	44	15.2	13	30	4								
2	RM	44	16.5	13	40	5								
3						6								
STAND INFORMATION														
Stand Basal Area		SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha		
Species and (%)		BS70	%	LA20	%	GB10	%							
Even-aged		x		Uneven-aged										
Slope		0 %		Aspect										
Stand Origin:		Old Field		x		Partial Cut		Burn		Unploughed				
		Windfall		x		Non Forest		Ploughed						
		Clear Cut				Unknown								
Stand Maturity Class:		Regeneration				Immature		x		Mature		Over-mature		
Stand Stocking:		Understocked				Fully Stocked		x		Overstocked		Patchy		
Density:		SW	2,400		HW	1,000								
Advanced Regeneration:		Understocked				Fully Stocked		x		Overstocked		Patchy		
Regeneration:		1. Spp. GB		Height		0.3m		2. Spp.		Height				
		3. Spp. GB		Height		0.2m		4. Spp.		Height				
GROUND OBSERVATIONS														
Ground Vegetation Species Present:				Snow cover										
Ground Hemlock				Y / N		x								
Invasive Species Present				Y / N		x								
Site Indicators				Y / N		x								
ENVIRONMENTAL OBSERVATIONS														
Water Course		N		Bog		N		Pond		N		Stream	N	
Seeps		N		Beaver Present		N		Y / N						
Drainage:		Poor		Moderate		x		Good		Excellent		Erosion Control Required		N
Snag Trees:		Adequate		x		Inadequate								
Coarse Woody Material:		Adequate		x		Inadequate								
Dens		N		Nests (Raptors, songbirds, etc.)		N								
Wildlife Observed		Snowshoe hare tracks												
Comments														
STAND PRESCRIPTION														
No Treatment				Regeneration Cut				Crop Tree Release				Block Cut		X
Shelterwood Cut				Selection Cut				Patch Cut				Strip Cut		
Commercial Thinning				Afforestation				Site Preparation						
Pre-commercial Thinning				Reforestation		x		Riparian Zone Mgmt						
Pln. Maint.		X		Y / N				Stems/Ha						
Comments:		High level of pest damage in the LA, visble in bark and leading stem diversion with blowdown patchy through the stand. Expect an increase in blowdown with the damaged larch and reduced canopy cover. Plant wet adapted species to the north of stand. Man made drainage ditch to the east of stand.												

STAND TALLY SHEET													
CRUISER	Mac Buchanan		STAND #	210475		PLANTATION #	3780001						
PROPERTY #	59139		AREA	4.5 ha		Date	22 /	2 /	2024				
							D	M	Y				
SAMPLE TREE INFORMATION													
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%		
1	BS	44	38.5	17.5	40	4							
2	BS	44	16.1	14	40	5							
3						6							
STAND INFORMATION													
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha		
Species and (%)	BS70	%	LA20	%	GB10	%							
Even-agec	x		Uneven-aged								Biomass		
Slope	0 %		Aspect										
Stand Origin:	Old Field	x		Partial Cut			Burn			Unploughed			
	Windfall			Non Forest						Ploughed	x		
	Clear Cut			Unknown									
Stand Maturity Class:	Regeneration				Immature	x		Mature			Over-mature		
Stand Stocking:	Understocked				Fully Stocked	x		Overstocked			Patchy		
Density:	SW	1,600	HW	200									
Advanced Regeneration:	Understocked				Fully Stocked	x		Overstocked			Patchy		
Regeneration:	1. Spp.			Height			2. Spp.			Height			
	3. Spp.			Height			4. Spp.			Height			
GROUND OBSERVATIONS													
Ground Vegetation Species Present:	Wild raisin, grass, golden rod, bracken fern, raspberry, elderberry, red osier												
Ground Hemlock	Y / N		x										
Invasive Species Present	Y / N		x										
Site Indicators	Y / N		x										
	If yes then what species:												
	If yes then what species:												
ENVIRONMENTAL OBSERVATIONS													
Water Course	N,	Bog	N	Pond	N	Stream	N	Seeps	N	Beaver Present	N	Y / N	
Drainage:	Poor	Moderate		x	Good	Excellent				Erosion Control Required	N	Y / N	
Snag Trees:	Adequate	x		Inadequate									
Coarse Woody Material:	Adequate	x		Inadequate									
Dens	N		Nests (Raptors, songbirds, etc.)	N									
Wildlife Observed	Snowshoe hare tracks												
Comments													
STAND PRESCRIPTION													
No Treatment				Regeneration Cut				Crop Tree Release				Block Cut	x
Shelterwood Cut				Selection Cut				Patch Cut				Strip Cut	
Commercial Thinning				Afforestation				Site Preparation					
Pre-commercial Thinning				Reforestation	x		Riparian Zone Mgmt						
Pln. Maint.	x	Y / N	Stems/Ha										
Comments:	BS plantation dominates the southern part of the stand with LA dominating the north part. Blowdown is aproximatley 75% total stand density. Block harvest eliminating blowdown and all standing larch as insect is spreading through the property casuing decline. Reforestation with planting of (SM,YB,WS,RM,WA) visibly better drainage on this stand in comparison to the rest of PID.												

STAND TALLY SHEET												
CRUISER	Mac Buchanan		STAND #	210448		PLANTATION #	3010192					
PROPERTY #	59139		AREA	0.27 ha		Date	23 /	2 /	2024			
							D	M	Y			
SAMPLE TREE INFORMATION												
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	
1	WS	23	16.9	8m	50	4						
2	WS	23	12.1	6m	25	5						
3						6						
STAND INFORMATION												
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha	
Species and (%)	WS10	%	%	%	%							
Even-agec x	Uneven-aged		Biomass									
Slope	0 %	Aspect										
Stand Origin:	Old Field x	Partial Cut		Burn		Unploughed						
	Windfall	Non Forest		Ploughed x								
	Clear Cut	Unknown										
Stand Maturity Class:	Regeneration		Immature x		Mature		Over-mature					
Stand Stocking:	Understocked		Fully Stocked x		Overstocked		Patchy					
Density:	SW	2,400	HW	0								
Advanced Regeneration:	Understocked		Fully Stocked x		Overstocked		Patchy					
Regeneration:	1. Spp.	WS	Height	1m	2. Spp.	Height						
	3. Spp.		Height		4. Spp.	Height						
GROUND OBSERVATIONS												
Ground Vegetation Species Present:	Ghost Pipe inventory was done during snow cover											
Ground Hemlock	Y / N		x									
Invasive Species Present	Y / N		x		If yes then what species:							
Site Indicators	Y / N		x		If yes then what species:							
ENVIRONMENTAL OBSERVATIONS												
Water Course	N,	Bog	N	Pond	N	Stream	N	Seeps	N	Beaver Present	N / Y / N	
Drainage:	Poor	Moderate	Good	x	Excellent	Erosion Control Required						N / Y / N
Snag Trees:	Adequate	Inadequate x										
Coarse Woody Material:	Adequate	Inadequate x										
Dens	N	Nests (Raptors, songbirds, etc.) N										
Wildlife Observed	Snowshoe hare tracks											
Comments												
STAND PRESCRIPTION												
No Treatment	x		Regeneration Cut		Crop Tree Release		Block Cut					
Shelterwood Cut			Selection Cut		Patch Cut		Strip Cut					
Commercial Thinning			Afforestation		Site Preparation							
Pre-commercial Thinning			Reforestation		Riparian Zone Mgmt							
Pln. Maint.	Y / N	Stems/Ha										
Comments:	Small Spruce Plantation. Some dead regen of WS aprox 1m tall, death due to density of plantation and live crown of stems creating minimal canopy gaps. No prescription at this time young stand with no need of maintenace or thinning. Next management plan could look at Commercial thinning if growth is being restricted or patch cut to establish some natural regeneration of spruce.											

STAND TALLY SHEET																									
CRUISER		Mac Buchanan		STAND # 210449 & 210203			PLANTATION #			3010191															
PROPERTY #		59139		AREA		2.16 ha		Date		23 / 2 / 2024															
								D M Y																	
SAMPLE TREE INFORMATION																									
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%														
1	GB	23	11.5	7.5	40	4																			
2	NS	23	15.8	5	90	5																			
3	LA	23	9	8	40	6																			
STAND INFORMATION																									
Stand Basal Area		SW		M ² /Ha		SWSL		M ² /Ha		HW		M ² /Ha		HWSL		M ² /Ha									
Species and (%)		NS5		%		GB3		%		LA2		%													
Even-agec		x		Uneven-aged								Biomass													
Slope		0 %		Aspect																					
Stand Origin:		Old Field		x		Partial Cut				Burn				Unploughed											
		Windfall		x		Non Forest								Ploughed		x									
		Clear Cut				Unknown																			
Stand Maturity Class:		Regeneration				Immature		x		Mature				Over-mature											
Stand Stocking:		Understocked		x		Fully Stocked				Overstocked				Patchy											
Density:		SW		1,000		HW		1,400																	
Advanced Regeneration:		Understocked				Fully Stocked		x		Overstocked				Patchy											
Regeneration:		1. Spp.		GB		Height		1m		2. Spp.				Height											
		3. Spp.				Height				4. Spp.				Height											
GROUND OBSERVATIONS																									
Ground Vegetation Species Present:				Golden rod (snow cover)																					
Ground Hemlock				Y / N		x																			
Invasive Species Present				Y / N		x		If yes then what species:																	
Site Indicators				Y / N		x		If yes then what species:																	
ENVIRONMENTAL OBSERVATIONS																									
Water Course		N		Bog		N		Pond		N		Stream		N		Seeps		N		Beaver Present		N		Y / N	
Drainage:		Poor				Moderate				Good		x		Excellent				Erosion Control Required		N		Y / N			
Snag Trees:		Adequate				Inadequate		x																	
Coarse Woody Material:		Adequate				Inadequate		x																	
Dens		N				Nests (Raptors, songbirds, etc.)		N																	
Wildlife Observed		Snowshoe hare tracks																							
Comments																									
STAND PRESCRIPTION																									
No Treatment				Regeneration Cut				Crop Tree Release				Block Cut													
Shelterwood Cut				Selection Cut				Patch Cut				Strip Cut													
Commercial Thinning				x				Afforestation				Site Preparation													
Pre-commercial Thinning								Reforestation				Riparian Zone Mgmt													
Pln. Maint.		Y / N				Stems/Ha																			
Comments:		NS plantation with GB pockets throughout. Lots of canopy gaps for regen and vegetation growth. GB however is growing faster than SW and therefore could be thinned to eliminate compition. NS is visible healthy with an average LCR of 90%.																							

STAND TALLY SHEET																		
CRUISER	Mac Buchanan		STAND #	210358		PLANTATION #	3911691											
PROPERTY #	59139		AREA	2.08 ha		Date	23 /	2 /	2024									
							D	M	Y									
SAMPLE TREE INFORMATION																		
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%							
1	RP	33	25.8	14	30	4												
2	GB	15	11.5	8	50	5												
3						6												
STAND INFORMATION																		
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha							
Species and (%)	WS4	%	RP3	%	GB2	%	10% (LA,PO,RM)											
Even-aged	x		Uneven-aged								Biomass							
Slope	0 %		Aspect															
Stand Origin:	Old Field	x		Partial Cut	Burn		Unploughed											
	Windfall			Non Forest	Ploughed							x						
	Clear Cut			Unknown														
Stand Maturity Class:	Regeneration			Immature			x		Mature	Over-mature								
Stand Stocking:	Understocked			Fully Stocked			x		Overstocked	Patchy								
Density:	SW	2,400		HW	1,000													
Advanced Regeneration:	Understocked			Fully Stocked			x		Overstocked	Patchy								
Regeneration:	1. Spp.	WS		Height	0.5m		2. Spp.	RM		Height	2m							
	3. Spp.			Height			4. Spp.			Height								
GROUND OBSERVATIONS																		
Ground Vegetation Species Present:	Golden rod, Snow cover																	
Ground Hemlock	Y / N		x															
Invasive Species Present	Y / N		x		If yes then what species:													
Site Indicators	Y / N		x		If yes then what species:													
ENVIRONMENTAL OBSERVATIONS																		
Water Course	N		Bog	N		Pond	N		Stream	N		Seeps	N		Beaver Present	N		Y / N
Drainage:	Poor		Moderate		Good		x		Excellent		Erosion Control Required		N		Y / N			
Snag Trees:	Adequate			Inadequate									x					
Coarse Woody Material:	Adequate			Inadequate									x					
Dens	N		Nests (Raptors, songbirds, etc.)									N						
Wildlife Observed	Snowshoe hare tracks																	
Comments																		
STAND PRESCRIPTION																		
No Treatment				Regeneration Cut			Crop Tree Release			Block Cut								
Shelterwood Cut				Selection Cut			Patch Cut			Strip Cut								
Commercial Thinning	x		Afforestation			Site Preparation												
Pre-commercial Thinning				Reforestation			Riparian Zone Mgmt											
Pln. Maint.	Y / N		Stems/Ha															
Comments:	This stand appears to be plantations of WS and RP that were done in strips vertically towards the road. WS plantation is much more dense with full canopy closure while the RP is receiving some competition from hardwoods. As the stand is less dense in SoftWood. Stand could use thinning to eliminate PO & GB and thin overpopulated WS strips to allow for better crop tree growth. Commercial product in WS.																	

STAND TALLY SHEET																		
CRUISER	Mac Buchanan		STAND #	210456		PLANTATION #												
PROPERTY #	59139		AREA	2.49 ha		Date	22 /	2 /	2023									
							D	M	Y									
SAMPLE TREE INFORMATION																		
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%							
1	WS	35	21.5	13.5	40	4												
2						5												
3						6												
STAND INFORMATION																		
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha							
Species and (%)	LA6	%	WS3	%	%	%	10% (RM,PO,AL)											
Even-agec	x		Uneven-aged		Biomass													
Slope	0 %		Aspect															
Stand Origin:	Old Field	X		Partial Cut			Burn					Unploughed						
	Windfall	X		Non Forest								Ploughed						
	Clear Cut			Unknown														
Stand Maturity Class:	Regeneration				Immature	x		Mature				Over-mature						
Stand Stocking:	Understocked				Fully Stocked			Overstocked				Patchy						
Density:	SW	1,500		HW	800													
Advanced Regeneration:	Understocked				Fully Stocked			Overstocked				Patchy						
Regeneration:	1. Spp.	RM		Height	2m		2. Spp.	WS		Height	1m							
	3. Spp.			Height			4. Spp.			Height								
GROUND OBSERVATIONS																		
Ground Vegetation Species Present:	Red Osier, golden rod, alder. Snow cover.																	
Ground Hemlock	Y / N		x															
Invasive Species Present	Y / N		x		If yes then what species:													
Site Indicators	Y / N		x		If yes then what species:													
ENVIRONMENTAL OBSERVATIONS																		
Water Course	N,		Bog	N		Pond	N		Stream	N		Seeps	N		Beaver Present	N		Y / N
Drainage:	Poor		x		Moderate			Good			Excellent			Erosion Control Required	N		Y / N	
Snag Trees:	Adequate		x		Inadequate													
Coarse Woody Material:	Adequate		x		Inadequate													
Dens	N		Nests (Raptors, songbirds, etc.)									N						
Wildlife Observed	Snowshoe hare tracks, large bird nest in WS, Red squirel																	
Comments																		
STAND PRESCRIPTION																		
No Treatment			Regeneration Cut				Crop Tree Release				Block Cut		x					
Shelterwood Cut			Selection Cut				Patch Cut				Strip Cut							
Commercial Thinning			Afforestation				Site Preparation											
Pre-commercial Thinning			Reforestation		x		Riparian Zone Mgmt											
Pln. Maint.	X		Y / N		Stems/Ha													
Comments:	Stand is mainly dominated by LA that has been blown down in strips with patchy areas of standing WS. Wet area with alder capturing open spaces in understory. Recommend block harvest as stading trees are expected to come down with reduced canopy wind break to clean up. Prep site and Plant wet adapted species BS,YB,WA. Ribbon some RM regen to increase probability of reaching maturity.																	

STAND TALLY SHEET													
CRUISER	Mac Buchanan			STAND #	210605&210608		PLANTATION #						
PROPERTY #	59139			AREA	1.61 ha		Date	22 /	2 /	2024			
								D	M	Y			
SAMPLE TREE INFORMATION													
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%		
1	WS	40	35.6	15	50	4							
2						5							
3						6							
STAND INFORMATION													
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha		
Species and (%)	WS3	%	RM3	%	PO3	%							
Even-aged	Uneven-aged			x		Biomass							
Slope	0 %		Aspect										
Stand Origin:	Old Field	x		Partial Cut			Burn	Unploughed					
	Windfall	x		Non Forest			Ploughed						
	Clear Cut			Unknown									
Stand Maturity Class:	Regeneration			Immature			Mature		x			Over-mature	
Stand Stocking:	Understocked			x			Fully Stocked				Overstocked		Patchy
Density:	SW	500		HW	500								
Advanced Regeneration:	Understocked			Fully Stocked			x		Overstocked		Patchy		
Regeneration:	1. Spp.	PO		Height	1m		2. Spp.	RM		Height	2m		
	3. Spp.			Height			4. Spp.			Height			
GROUND OBSERVATIONS													
Ground Vegetation Species Present:	Red elderberry, alder, lambkill. Snow cover												
Ground Hemlock	Y / N		x										
Invasive Species Present	Y / N		x		If yes then what species:								
Site Indicators	Y / N		x		If yes then what species:								
ENVIRONMENTAL OBSERVATIONS													
Water Course	N	Bog	N	Pond	N	Stream	N	Seeps	N	Beaver Present	N	Y / N	
Drainage:	Poor	Moderate		x		Good	Excellent		Erosion Control Required			N	Y / N
Snag Trees:	Adequate		x		Inadequate								
Coarse Woody Material:	Adequate		x		Inadequate								
Dens	N		Nests (Raptors, songbirds, etc.)									N	
Wildlife Observed	Snowshoe hare tracks, Red squirrel												
Comments													
STAND PRESCRIPTION													
No Treatment	X			Regeneration Cut			Crop Tree Release			Block Cut			
Shelterwood Cut				Selection Cut			Patch Cut			Strip Cut			
Commercial Thinning				Afforestation			Site Preparation						
Pre-commercial Thinning				Reforestation			Riparian Zone Mgmt						
Pln. Maint.	Y / N		X		Stems/Ha								
Comments:	Mature mixed wood stand next to wetland. Old growth softwood standing and old growth poplar blowdown. Good example of a natural stand therefore I would recommend no treatment. Bordering wetland with wildlife value.												

STAND TALLY SHEET													
CRUISER	Mac Buchanan		STAND #	210476		PLANTATION #	3780001						
PROPERTY #	59139		AREA	1.93 ha		Date	22 /	2 /	2024				
							D	M	Y				
SAMPLE TREE INFORMATION													
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%		
1	BS	46	23.8	12	20	4							
2	LA	46	28.2	13.5	40	5							
3						6							
STAND INFORMATION													
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha		
Species and (%)	LA8	%	BS2	%	%	%							
Even-agec	x		Uneven-aged		Biomass								
Slope	0 %		Aspect										
Stand Origin:	Old Field	x		Partial Cut	Burn		Unploughed						
	Windfall	x		Non Forest	Ploughed								
	Clear Cut			Unknown									
Stand Maturity Class:	Regeneration		Immature		Mature			x				Over-mature	
Stand Stocking:	Understocked		Fully Stocked		Overstocked			Patchy					
Density:	SW	1,000	HW	100									
Advanced Regeneration:	Understocked		Fully Stocked		Overstocked			Patchy					
Regeneration:	1. Spp.	PC	Height	1.5m		2. Spp.	Height						
	3. Spp.	WB	Height	0.5m		4. Spp.	Height						
GROUND OBSERVATIONS													
Ground Vegetation Species Present:	Golden rod, Wild raisin, Snow cover												
Ground Hemlock	Y / N		x										
Invasive Species Present	Y / N		x		If yes then what species:								
Site Indicators	Y / N		x		If yes then what species:								
ENVIRONMENTAL OBSERVATIONS													
Water Course	N,	Bog	N	Pond	N	Stream	N	Seeps	N	Beaver Present	N / Y / N		
Drainage:	Poor	Moderate	X	Good	Excellent	Erosion Control Required							
Snag Trees:	Adequate	X	Inadequate										
Coarse Woody Material:	Adequate	X	Inadequate										
Dens	N	Nests (Raptors, songbirds, etc.) N											
Wildlife Observed	Snowshoe hare tracks												
Comments													
STAND PRESCRIPTION													
No Treatment				Regeneration Cut				Crop Tree Release				Block Cut	X
Shelterwood Cut				Selection Cut				Patch Cut				Strip Cut	
Commercial Thinning				Afforestation				Site Preparation					
Pre-commercial Thinning				Reforestation	X		Riparian Zone Mgmt						
Pln. Maint.	X	Y / N	Stems/Ha										
Comments:	LA plantation with BS mixed throughout the stand. Small LA stems regenerated throughout susceptible to blow down and signs of insect. Remove blowdown and standing larch as it is declining due to infestation. Create microsities and Plant.												

STAND TALLY SHEET													
CRUISER	Mac Buchanan		STAND #	210349		PLANTATION #							
PROPERTY #	59139		AREA	1.53 ha		Date	22 /	2 /	2024				
							D	M	Y				
SAMPLE TREE INFORMATION													
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%		
1	LA	30+	34.7	14m	30	4							
2	BS	15	7.6	3.9	50	5							
3						6							
STAND INFORMATION													
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha		
Species and (%)	LA9	%	LA10	%	%	%							
Even-agec	x		Uneven-aged								Biomass		
Slope	0 %		Aspect										
Stand Origin:	Old Field	x		Partial Cut			Burn			Unploughed			
	Windfall	x		Non Forest						Ploughed	x		
	Clear Cut			Unknown									
Stand Maturity Class:	Regeneration				Immature	x		Mature	x		Over-mature		
Stand Stocking:	Understocked				Fully Stocked	x		Overstocked			Patchy		
Density:	SW	2,200		HW	0								
Advanced Regeneration:	Understocked		x		Fully Stocked			Overstocked			Patchy		
Regeneration:	1. Spp.			Height			2. Spp.			Height			
	3. Spp.			Height			4. Spp.			Height			
GROUND OBSERVATIONS													
Ground Vegetation Species Present:	sensitive fern, snow cover												
Ground Hemlock	Y / N		x										
Invasive Species Present	Y / N		x		If yes then what species:								
Site Indicators	x		Y / N		If yes then what species: Wet site								
ENVIRONMENTAL OBSERVATIONS													
Water Course	N,	Bog	N	Pond	N	Stream	N	Seeps	N	Beaver Present	N	Y / N	
Drainage:	Poor	Moderate		x	Good	Excellent				Erosion Control Required	N	Y / N	
Snag Trees:	Adequate		x		Inadequate								
Coarse Woody Material:	Adequate		x		Inadequate								
Dens	N		Nests (Raptors, songbirds, etc.)									N	
Wildlife Observed	Snowshoe hare tracks												
Comments													
STAND PRESCRIPTION													
No Treatment				Regeneration Cut				Crop Tree Release				Block Cut	X
Shelterwood Cut				Selection Cut				Patch Cut				Strip Cut	
Commercial Thinning				Afforestation				Site Preparation					
Pre-commercial Thinning				Reforestation	X		Riparian Zone Mgmt						
Pln. Maint.	X	Y / N			Stems/Ha								
Comments:	90% of stand has been completely blown down remaining standing stems will be down following next wind event. Block harvest and planting of wet site adapted species. Site may be to wet northward advise walking site again when dry to see how far contractors can go to prevent deleterious rutting.												

STAND TALLY SHEET											
CRUISER	Mac Buchanan		STAND #	210353 & 211095		PLANTATION #	37811711				
PROPERTY #	59139		AREA	4.6 ha		Date	22 /	2 /	2024		
							D	M	Y		
SAMPLE TREE INFORMATION											
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%
1	LA	43	23.6	15	30	4					
2	BS	43	22.4	13	30	5					
3						6					
STAND INFORMATION											
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha
Species and (%)	LA70	%	BS20	%	%	10% GB WB BF					
Even-aged x	Uneven-aged		Biomass								
Slope	0	%	Aspect								
Stand Origin:	Old Field	x	Partial Cut	Burn		Unploughed					
	Windfall	x	Non Forest	Ploughed x							
	Clear Cut		Unknown								
Stand Maturity Class:	Regeneration		Immature		Mature		x	Over-mature			
Stand Stocking:	Understocked		Fully Stocked		x	Overstocked		Patchy			
Density:	SW	2,200	HW	200							
Advanced Regeneration:	Understocked		Fully Stocked		x	Overstocked		Patchy			
Regeneration:	1. Spp.	GB	Height	0.5m		2. Spp.	GB	Height	0.5m		
	3. Spp.		Height								
	4. Spp.		Height								
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	Golden rod, Red elder, Snow cover										
Ground Hemlock	Y / N	x									
Invasive Species Present	Y / N	x	If yes then what species:								
Site Indicators	Y / N	x	If yes then what species:								
ENVIRONMENTAL OBSERVATIONS											
Water Course	N	Bog	N	Pond	N	Stream	N	Seeps	N	Beaver Present	N / Y
Drainage:	Poor	Moderate	X	Good		Excellent		Erosion Control Required	N	Y / N	
Snag Trees:	Adequate	x	Inadequate								
Coarse Woody Material:	Adequate	x	Inadequate								
Dens	N	Nests (Raptors, songbirds, etc.)	Y								
Wildlife Observed	Snowshoe hare tracks, small bird nest in ground veg										
Comments											
STAND PRESCRIPTION											
No Treatment		Regeneration Cut		Crop Tree Release		Block Cut	X				
Shelterwood Cut		Selection Cut		Patch Cut		Strip Cut					
Commercial Thinning		Afforestation		Site Preparation							
Pre-commercial Thinning		Reforestation	x	Riparian Zone Mgmt							
Pln. Maint.	X	Y / N	Stems/Ha								
Comments:	Stand consisting of insect infected LA and BS high degree of blowdown. Standing stems are next to power line recommend cutting to prevent damage to powerlines. Previous tender that never went through windfall area pushed pass previous boundary line from tender. Block harvest and replant. Replant stand with a buffer next to powerline. Seems to be better drainage especially at the southern portion could provide a more diverse area for planting le SM,RO. Elderberry is also considered to prefer nutrient rich sites suitable for tolerant hardwood species.										

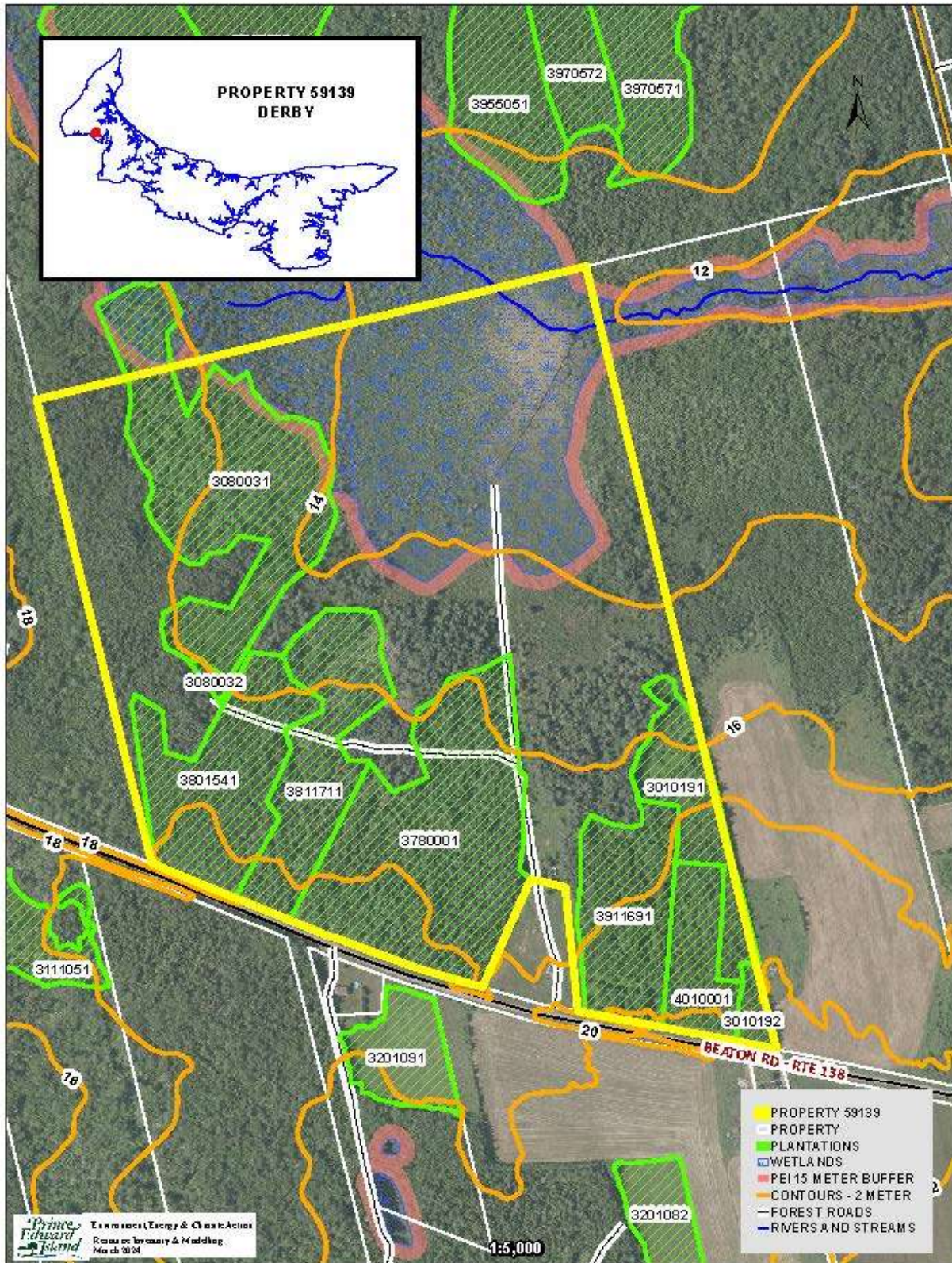
STAND TALLY SHEET											
CRUISER	Mac Buchanan		STAND #	210548&210873		PLANTATION #	3080031				
PROPERTY #	59139		AREA	5.08 ha		Date	22 /	2 /	2024		
							D	M	Y		
SAMPLE TREE INFORMATION											
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%
1	RM	30	21.2	11.5	50	4					
2	BF	10	10.6	5.5	90	5					
3						6					
STAND INFORMATION											
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha
Species and (%)	BF2	%	RM2	%	WP2	%	WB1	% 10%GB,PO,AL			
Even-aged	Uneven-aged		X		Biomass						
Slope	0 %		Aspect								
Stand Origin:	Old Field	x		Partial Cut			Burn	Unploughed			
	Windfall	X		Non Forest				Ploughed			
	Clear Cut			Unknown							
Stand Maturity Class:	Regeneration				Immature	x		Mature			
Stand Stocking:	Understocked				Fully Stocked			Overstocked	X		
Density:	SW	3000+		HW	3000+						
Advanced Regeneration:	Understocked				Fully Stocked			Overstocked	X		
Regeneration:	1. Spp. BF		Height 0.5M		2. Spp. BF		Height 1M				
	3. Spp. RM		Height 0.5M		4. Spp.		Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	wild raisin, bracken fern, lambkill										
Ground Hemlock	Y / N		x								
Invasive Species Present	Y / N		x If yes then what species:								
Site Indicators	Y / N		x If yes then what species:								
ENVIRONMENTAL OBSERVATIONS											
Water Course	N		Bog	N		Pond	N		Stream	N	
Drainage:	Poor			Moderate	x		Good			Excellent	
Snag Trees:	Adequate		x		Inadequate						
Coarse Woody Material:	Adequate		x		Inadequate						
Dens	N		Nests (Raptors, songbirds, etc.) N								
Wildlife Observed	Snowshoe hare tracks										
Comments											
STAND PRESCRIPTION											
No Treatment			Regeneration Cut				Crop Tree Release				
Shelterwood Cut			Selection Cut				Patch Cut				
Commercial Thinning			Afforestation				Site Preparation				
Pre-commercial Thinning			Reforestation				Riparian Zone Mgmt				
Pln. Maint.	X	Y / N		Stems/Ha							
Comments:	<p>WP plantation is showing signs of mortality and decline in some areas potentially due to blister rust. Thin stand for quality eliminating weaker WP stems allowing more growing space for healthy WP stems. A pruning of branches infected may be effective as long as trunk is not infected. The blister rust fungus is only viable in living stems so disposing of infected branches is not necessary. Stand is also overpopulated with new growth, recommend plantation maintenance to eliminate competition for plantation. If tolerant hardwoods are not competing with planation stems treat as crop trees and thin competition surrounding.</p>										

STAND TALLY SHEET											
CRUISER	Mac Buchanan		STAND #	210444		PLANTATION #	3801541				
PROPERTY #	59139		AREA	1.38 ha		Date	22 /	2 /	2024		
							D	M	Y		
SAMPLE TREE INFORMATION											
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%
1	BF	30	27	12	50	4					
2	BS	30	18.3	11.5	20	5					
3						6					
STAND INFORMATION											
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha
Species and (%)	BS6	%	BF3	%	%	%	10% RM,LA,PO,WB				
Even-agec	x	Uneven-aged							Biomass		
Slope	0	%	Aspect								
Stand Origin:	Old Field	x	Partial Cut			Burn		Unploughed			
	Windfall	X	Non Forest					Ploughed x			
	Clear Cut		Unknown								
Stand Maturity Class:	Regeneration			Immature		x	Mature			Over-mature	
Stand Stocking:	Understocked			Fully Stocked		x	Overstocked			Patchy	
Density:	SW	2,800	HW	400							
Advanced Regeneration:	Understocked			Fully Stocked		x	Overstocked			Patchy	
Regeneration:	1. Spp.	BF	Height		1.5M	2. Spp.	BF	Height		0.5M	
	3. Spp.	BF	Height		1.5M	4. Spp.	BF	Height		1M	
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	lambkill,wild raisen, step moss										
Ground Hemlock	Y / N	x									
Invasive Species Present	Y / N	x	If yes then what species:								
Site Indicators	Y / N	x	If yes then what species:								
ENVIRONMENTAL OBSERVATIONS											
Water Course	N,	Bog	N	Pond	N	Stream	N	Seeps	N	Beaver Present	N Y / N
Drainage:	Poor	x	Moderate	Good	x	Excellent		Erosion Control Required N Y / N			
Snag Trees:	Adequate	x	Inadequate								
Coarse Woody Material:	Adequate		x	Inadequate							
Dens	N	Nests (Raptors, songbirds, etc.)		N							
Wildlife Observed	NA										
Comments											
STAND PRESCRIPTION											
No Treatment		X	Regeneration Cut			Crop Tree Release			Block Cut		
Shelterwood Cut			Selection Cut			Patch Cut			Strip Cut		
Commercial Thinning			Afforestation			Site Preparation					
Pre-commercial Thinning			Reforestation			Riparian Zone Mgmt					
Pln. Maint.	Y / N	Stems/Ha									
Comments:	BS plantation with scattered areas of windfall throughout stand. Significant amount of regen in understory BF,CE,intolerant Hardwoods. Healthy stand recommend leaving windfall areas in stand as a CWD component as there isnt enough to do a patch harvest with value. Potentially a Block harvest could take place in 10-15 years when stand is mature and declining.										

STAND TALLY SHEET											
CRUISER	Mac Buchanan		STAND #	210603		PLANTATION #					
PROPERTY #	59139		AREA	4.03 ha		Date	22 /	2 /	2024		
							D	M	Y		
SAMPLE TREE INFORMATION											
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%
1	PO	30-40	27.8	15	40	4					
2	RM	15,	9.1	8	40	5					
3						6					
STAND INFORMATION											
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha
Species and (%)	PO4	%	RM3	%	BF2	%	10% WB,GB,BS				
Even-aged	Uneven-aged		X		Biomass						
Slope	0	%	Aspect								
Stand Origin:	Old Field	x	Partial Cut	Burn		Unploughed					
	Windfall	x	Non Forest			Ploughed					
	Clear Cut		Unknown								
Stand Maturity Class:	Regeneration		Immature		x		Mature		Over-mature		
Stand Stocking:	Understocked		Fully Stocked				Overstocked		Patchy		
Density:	SW	800	HW	2,400							
Advanced Regeneration:	Understocked		Fully Stocked		x		Overstocked		Patchy		
Regeneration:	1. Spp.	Height				2. Spp.	Height				
	3. Spp.	Height				4. Spp.	Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	Wild raisen, Wood fern.										
Ground Hemlock	Y / N	x									
Invasive Species Present	Y / N	x		If yes then what species:							
Site Indicators	Y / N	x		If yes then what species:							
ENVIRONMENTAL OBSERVATIONS											
Water Course	N,	Bog	N	Pond	N	Stream	N	Seeps	N	Beaver Present	N Y / N
Drainage:	Poor	Moderate	Good	x		Excellent	Erosion Control Required		N	Y / N	
Snag Trees:	Adequate	x		Inadequate							
Coarse Woody Material:	Adequate		x		Inadequate						
Dens	N	Nests (Raptors, songbirds, etc.)		N							
Wildlife Observed	Snowshoe hare tracks										
Comments											
STAND PRESCRIPTION											
No Treatment	x		Regeneration Cut		Crop Tree Release		Block Cut				
Shelterwood Cut			Selection Cut		Patch Cut		Strip Cut				
Commercial Thinning			Afforestation		Site Preparation						
Pre-commercial Thinning			Reforestation		Riparian Zone Mgmt						
Pln. Maint.	Y / N	Stems/Ha									
Comments:	Mixed wood stand with Softwood mainly coming up in the understory as regeneration through canopy gaps (BF,BS). Stand is immature for harvest with minimal amount of windfall damage. Some areas of dense Hardwood will naturally thin. No treatment at this time										

STAND TALLY SHEET											
CRUISER	Mac Buchanan		STAND #	210614		PLANTATION #					
PROPERTY #	59139		AREA	2.56 ha		Date	22 /	2 /	2024		
							D	M	Y		
SAMPLE TREE INFORMATION											
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%
1	LA	?	21.6	16.6	30	4					
2						5					
3						6					
STAND INFORMATION											
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha
Species and (%)	AL7	%	LA1	%	PO1	%	10% RM,GB				
Even-aged	Uneven-aged		X		Biomass						
Slope	0 %	Aspect									
Stand Origin:	Old Field	x		Partial Cut	Burn		Unploughed				
	Windfall			Non Forest	x		Ploughed				
	Clear Cut			Unknown							
Stand Maturity Class:	Regeneration				Immature		Mature		x		
	Over-mature										
Stand Stocking:	Understocked		x		Fully Stocked		Overstocked		Patchy		
Density:	SW	200	HW	200							
Advanced Regeneration:	Understocked		X		Fully Stocked		Overstocked		Patchy		
Regeneration:	1. Spp.	Height				2. Spp.	Height				
	3. Spp.	Height				4. Spp.	Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	Snow Cover										
Ground Hemlock	Y / N		x								
Invasive Species Present	Y / N		x		If yes then what species:						
Site Indicators	Y / N		x		If yes then what species:						
ENVIRONMENTAL OBSERVATIONS											
Water Course	N,	Bog	Y	Pond	N	Stream	N	Seeps	N	Beaver Present	N Y / N
Drainage:	Poor	x		Moderate	Good	Excellent		Erosion Control Required			
	N	Y / N									
Snag Trees:	Adequate		Inadequate								
	X										
Coarse Woody Material:	Adequate		Inadequate								
	X										
Dens	N		Nests (Raptors, songbirds, etc.)								
	N										
Wildlife Observed											
Comments											
STAND PRESCRIPTION											
No Treatment	x		Regeneration Cut		Crop Tree Release		Block Cut				
Shelterwood Cut			Selection Cut		Patch Cut		Strip Cut				
Commercial Thinning			Afforestation		Site Preparation						
Pre-commercial Thinning			Reforestation		Riparian Zone Mgmt						
Pln. Maint.	Y / N		Stems/Ha								
Comments:	No treatment stand is bordering a wetland with very little tree growth mainly alder and bog veg life.										

Appendix G. Plantation Map with Contour Lines



Appendix H. Work Completed

Activity Number	Treatment Code	Amount Completed	Treatment Date	Treatment Description
0	104	0.27	12/9/1992	Class 4 PCT Softwood< 6 M 15001-20000
	11	180	12/16/2020	Landing Construction
308003	170	0.6	3/5/2008	Salvage
3010191	23B	2.95	11/1/2000	Rhome Disc Double Pass - Per Ha
3080031	30B	12197	8/15/2008	Manual Site Preparation per Site (Hawk)
0	31	2.77	12/28/1990	Farm Equipment: per Ha
	3W	1	1/4/2021	Water Diversion Structure
3911691	53W	2373	2/19/1992	RED PINE - WESTERN
3911691	55W	2465	2/19/1992	WHITE SPRUCE - WESTERN
3080031	56W	11781	8/15/2008	WHITE PINE - WESTERN
3080031	59W	416	8/15/2008	EASTERN LARCH - WESTERN
3010191	67W	4469	7/3/2001	NORWAY SPRUCE - WESTERN
308003	94	2.8	3/5/2008	Crop Tree Release
308003	94	2.38	3/5/2008	Crop Tree Release