

Date: August 09, 2022

**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 41.2 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 most of the property, excepting the north east corner, was used for agricultural purposes early in the 20th century. To better illustrate this 1935 and 1968 photography can be seen in Appendix B.

Property Information

The information in Appendix C has been taken from the 2010 Corporate Land Use Inventory. An explanation of forestry code meanings can be seen in Appendix D. 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 E) 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 F).

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 placed and landing was constructed for logging trucks to pull off the road and safely load stockpiled wood. Access for this property can be seen on Appendix A.

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.

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 Forestry Division and our local community fire brigades. In the Western District, there is a 900 gallon (gal) four-wheel drive forestry fire truck housed at each of 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. There is not any watercourse on the property suitable to draw water for forest fire suppression activities.

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 Forest Management Standards manual (Eco-Manual). A list of all silviculture treatments completed on the property from 1991 to present is shown in Appendix G.

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. Table 1 provides a summary of the prescribed treatments on this property. 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.

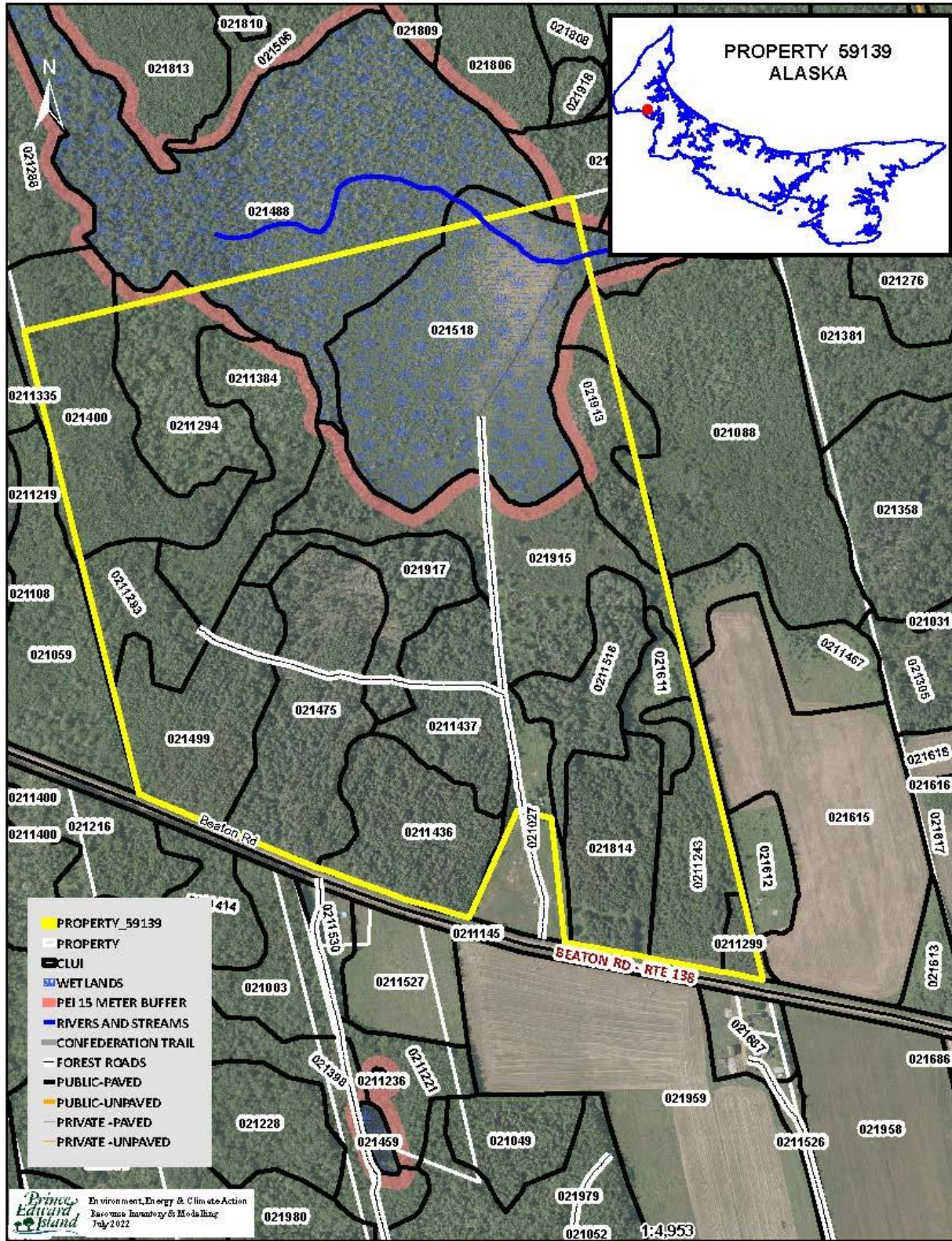
Table 1. Proposed Treatment Summary

Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	2018 Eco-Manual Reference	Comments	Goals
PN 3801541 PN 3811711 PN 3780001 (ST 21499) (ST 21475) (ST 211436) (ST 211437) ST 21917 ST 211518	Block Harvest Patch Harvest	2023-2030	13.2 ha	Pg. 29, 30	The LA has heavy insect infestation and is dead or dying. There are areas that have blown down. Target areas worse affected by insects first. Some areas will be a block harvested and areas with no current insect infestation can be patch harvested over time. There is BS blowdown in PN 378001. Patch harvest these blowdown areas. The ground gets wetter to the north.	Salvage insect infested dead and dying trees.
PN 3801541 PN 3811711 PN 3780001 (ST 21499) (ST 21475) (ST 211436) (ST 211437) ST 21917 ST 211518	Manual Site Preparation & Reforestation	2024-2031	13.2 ha	Pg. 14, 16	Prepare microsites and reforest with species ecologically suited to the site conditions (eg. WA, LA, BS, WS). Plant large stock, if possible, as the herbaceous vegetation is expressed and is heavy. The ground gets wetter to the north.	Create plantable spots and establish crop trees
PN 3801541 PN 3811711 PN 3780001 (ST 21499) (ST 21475) (ST 211436) (ST 211437) ST 21917 ST 211518	Manual Maintenance	2025-2032	13.2 ha	Pg. 17	Herbaceous vegetation will be the primary issue. GB and PO is also expected.	Prevent crop tree suppression
PN 3801541 PN 3811711 PN 3780001 (ST 21499) (ST 21475) (ST 211436) (ST 211437) ST 21917 ST 211518	Vegetation Corridor	2025-2032	13.2 ha	Pg. 4	Vegetation corridors (15m) for block harvest areas > 2.0 ha (as per the eco-manual) will be retained in areas where there are dominate HWs or SW species other than LA. Insect infested LA areas that exceed 2.0 ha and areas of blowdown will not have a vegetation corridor retained as it is expected to blowdown.	Establish vegetation corridors when feasible
PN 3911691 (ST 21814)	Patch Harvest	2026	1.1 ha	Pg. 29	This stand is predominately WS and RP. To provide some structural diversity patch harvest the site (max. 15mx15m patches).	Diversify the stand
PN 3911691 (ST 21814)	Manual Site Preparation & Reforestation	2027	1.1 ha	Pg. 14, 16	Prepare microsites and reforest with species ecologically suited to the site conditions (e.g. WS,	Create plantable spots and establish crop trees

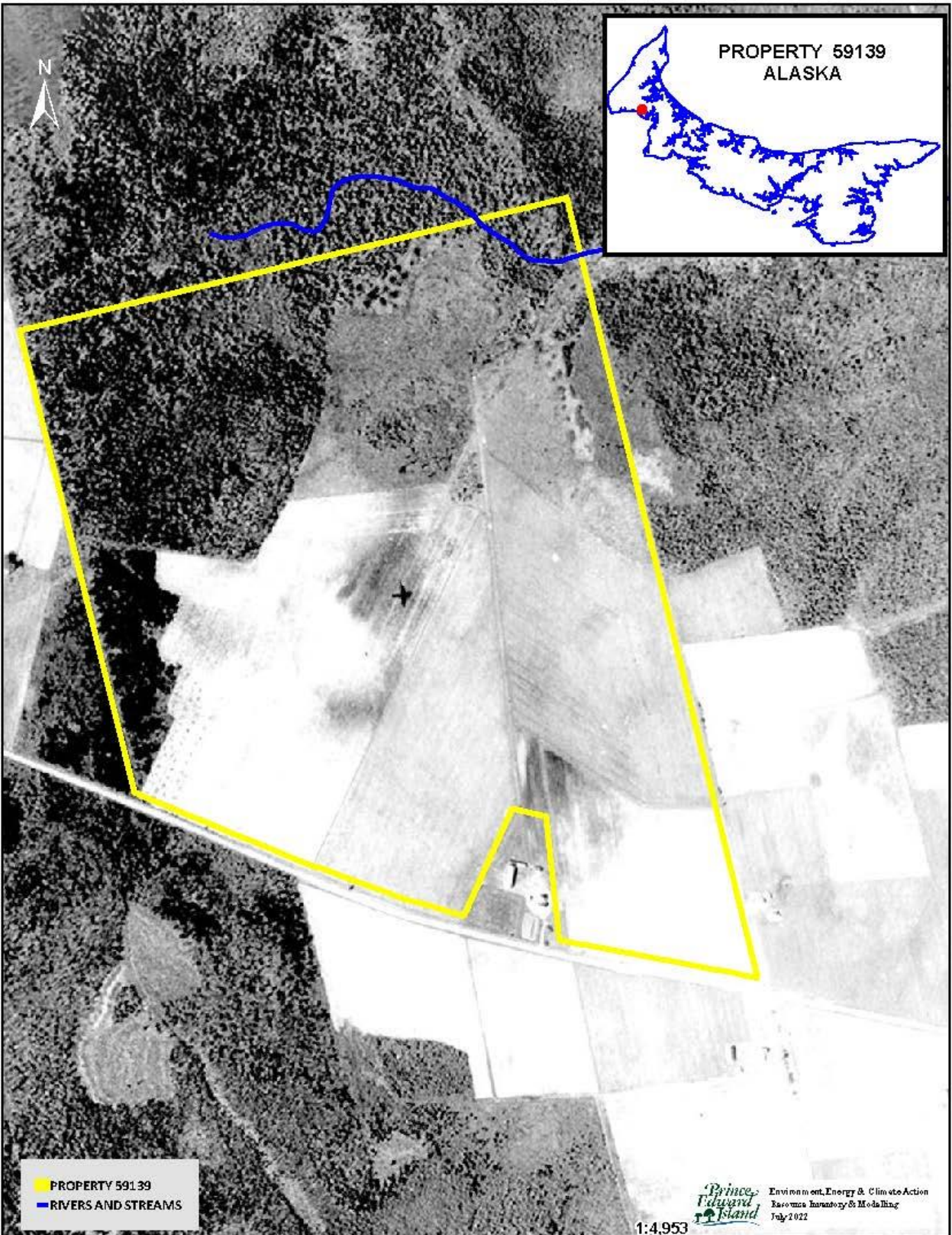
Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	2018 Eco-Manual Reference	Comments	Goals
					WP, WA, LA, BS, RP). The wetness of the site varies throughout.	
PN 3911691 (ST 21814)	Manual Maintenance	2029	1.1 ha	Pg. 17	Maintain as required.	Prevent crop tree suppression
211293	Block Harvest	2023	1.4 ha	Pg. 30	This is a healthy SW stand. Retain WP and RM.	Salvage mature/overmature wood
211293	Site Preparation & Reforestation	2024	1.4 ha	Pg. 14, 16	Prepare microsites for planting and plant species ecologically suited to the site.	Create plantable spots
211293	Manual Maintenance	2021	1.4 ha	Pg. 17	Eliminate undesirable competing vegetation.	Improve growth of crop trees
21400	Block Harvest	2016	2.9 ha	Pg. 30	South portion of stand is BF dominant and can be harvested in conjunction with stand 211293. The remainder of the stand is a HW stand. Harvest PO, GB and WB. Retain RM throughout the stand.	Harvest declining SW and select HW species
21400	Site Preparation & Reforestation	2017	2.9 ha	Pg. 14, 16	Prepare microsites for planting and plant species ecologically suited to the site.	Create plantable spots
21400	Manual Maintenance	2021	2.9 ha	Pg. 17	Eliminate undesirable competing vegetation.	Improve growth of crop trees
PN 3080031 PN 3080032	Manual Plantation Maintenance	2023	2.0 ha	Pg. 17	This plantation is strips throughout a mature stand of HW. It is too difficult to layout or treat except for a contiguous sections to the south/east. Layout and treat this area. Leave the rest as is to develop as a two aged stand.	Improve growth of crop trees

Appendices

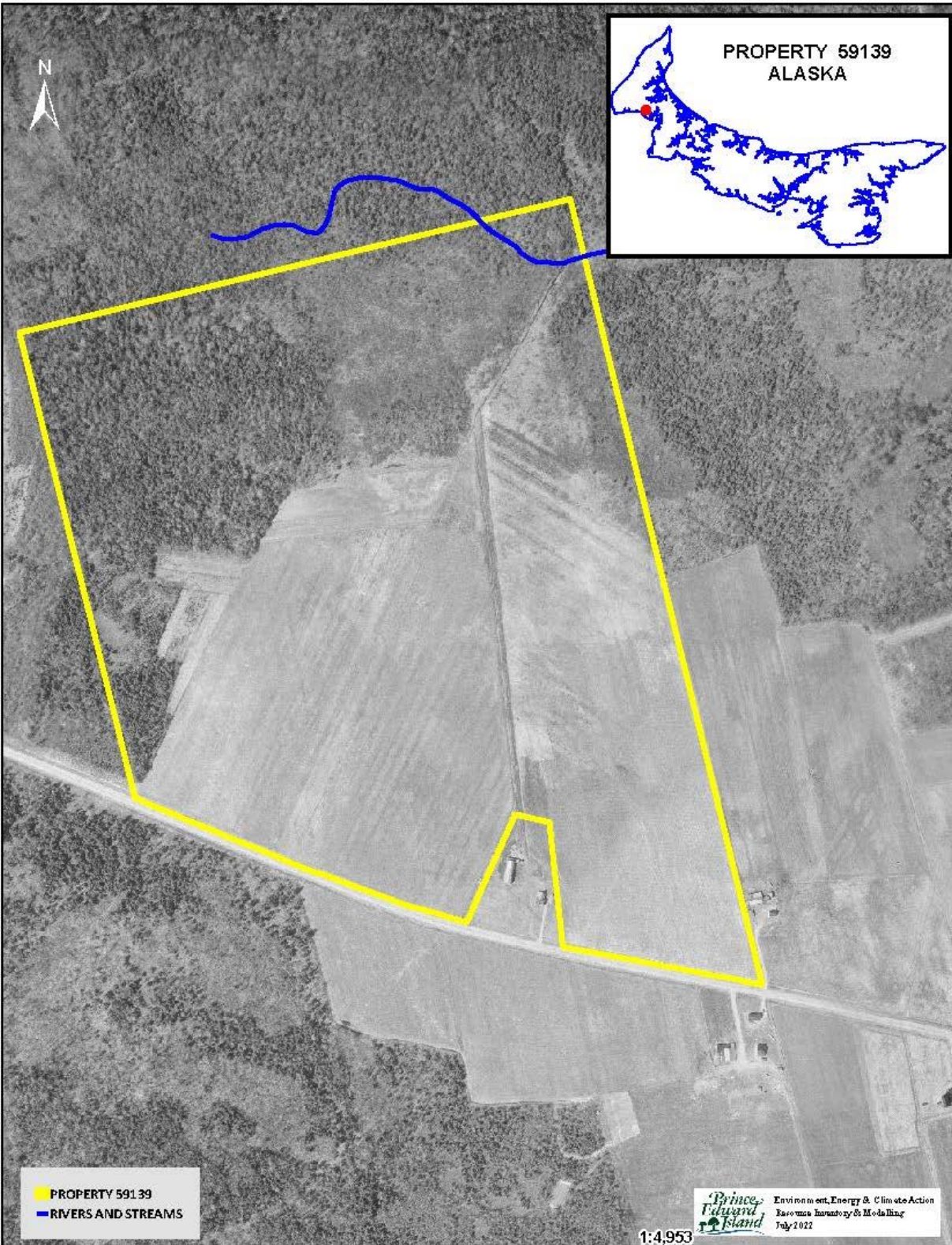
Appendix A. Map of Property with Locator Map



Appendix B. 1935 Aerial Photography



Appendix B. 1968 Aerial Photography



Appendix C. 2010 Corporate Land Use Inventory

FIELDDID	COV1	PER1	COV2	PER2	COV3	PER3	COV4	PER4	COV5	PER5	HT(m)	HA
021919	BF	4.00	RM	3.00	WB	2.00	WS	1.00		0.00	9.00	1.58
021917	LA	10.00		0.00		0.00		0.00		0.00	14.00	1.68
021499	LA	9.00	PO	1.00		0.00		0.00		0.00	12.00	2.91
021475	LA	10.00		0.00		0.00		0.00		0.00	10.00	3.65
021814	WS	8.00	RP	2.00		0.00		0.00		0.00	5.00	2.17
0211293	WS	4.00	LA	2.00	BF	2.00	PO	1.00	RM	1.00	14.00	1.38
0211299	WS	10.00		0.00		0.00		0.00		0.00	2.00	0.28
0211243	NS	10.00		0.00		0.00		0.00		0.00	0.00	1.93
0211518	LA	10.00		0.00		0.00		0.00		0.00	10.00	1.65
0211436	WS	8.00	LA	2.00		0.00		0.00		0.00	5.00	2.44
0211437	LA	10.00		0.00		0.00		0.00		0.00	8.00	2.07
0211294	RM	7.00	WB	1.00	BF	1.00	PO	1.00		0.00	16.00	2.43
021400	RM	4.00	PO	4.00	WS	1.00	WB	1.00		0.00	13.00	4.06
021381	PO	4.00	RM	2.00	WB	2.00	BF	1.00	BS	1.00	15.00	3.16
021913	RM	5.00	BF	2.00	LA	1.00	PO	1.00	WB	1.00	12.00	1.55
021088	CC	10.00		0.00		0.00		0.00		0.00	0.00	7.34
021915	AL	8.00	LA	1.00	DT	1.00		0.00		0.00	4.00	4.15
0211384	CC	10.00		0.00		0.00		0.00		0.00	0.00	2.40
021488	RM	5.00	BF	2.00	BS	2.00	LA	1.00		0.00	14.00	20.56

Appendix D. 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 overlaid 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 E. Stand Tally Sheets from on the Ground Assessment

STAND TALLY SHEET											
CRUISER	S. Rankin			STAND #	21499			PLANTATION #	3801541		
PROPERTY #	59139			AREA	2.9	ha	Date	3 /	8 /	2022	
								D	M	Y	
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	LA	43	30	17	4						
2	BS	43	15	11	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 (%)	LA7	%	BSBF2	%	GB1	%					
Even-aged	<input checked="" type="checkbox"/>		Uneven-aged	<input type="checkbox"/>						Biomass	
Slope level	%	Aspect									
Stand Origin:	Old Field	<input checked="" type="checkbox"/>	Partial Cut	<input type="checkbox"/>	Burn	<input type="checkbox"/>	Unploughed	<input type="checkbox"/>			
	Windfall	<input type="checkbox"/>	Non Forest	<input type="checkbox"/>			Ploughed	<input type="checkbox"/>			
	Clear Cut	<input type="checkbox"/>	Unknown	<input type="checkbox"/>							
Stand Maturity Class:	Regeneration	<input type="checkbox"/>	Immature	<input checked="" type="checkbox"/>	Mature	<input type="checkbox"/>	Over-mature	<input type="checkbox"/>			
Stand Stocking:	Understocked	<input type="checkbox"/>	Fully Stocked	<input checked="" type="checkbox"/>	Overstocked	<input type="checkbox"/>	Patchy	<input type="checkbox"/>			
Density:	SW	2400	HW	600							
Advanced Regeneration:	Understocked	<input checked="" type="checkbox"/>	Fully Stocked	<input type="checkbox"/>	Overstocked	<input type="checkbox"/>	Patchy	<input type="checkbox"/>			
Regeneration:	1. Spp.	RM	Height	0.1-0.2m	2. Spp.		Height				
	3. Spp.		Height		4. Spp.		Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	fern, grass, wild raisin, star flower, rhododendron, blueberry, bunch berry										
Ground Hemlock	<input type="checkbox"/>	Y / N	<input checked="" type="checkbox"/>								
Invasive Species Present	<input type="checkbox"/>	Y / N	<input checked="" type="checkbox"/>		If yes then what species:						
Site Indicators	<input type="checkbox"/>	Y / N	<input checked="" type="checkbox"/>		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	<input checked="" type="checkbox"/>	Moderate	<input checked="" type="checkbox"/>	Good	<input type="checkbox"/>	Excellent	<input type="checkbox"/>	Erosion Control Required	N Y / N	
Snag Trees:	Adequate	<input checked="" type="checkbox"/>	Inadequate	<input type="checkbox"/>							
Coarse Woody Material:	Adequate	<input checked="" type="checkbox"/>	Inadequate	<input type="checkbox"/>							
Dens	N	Nests (Raptors, songbirds, etc.)	N								
Wildlife Observed	None observed										
Comments											
STAND PRESCRIPTION											
No Treatment	<input type="checkbox"/>		Regeneration Cut	<input type="checkbox"/>	Crop Tree Release	<input type="checkbox"/>	Block Cut	<input checked="" type="checkbox"/>			
Shelterwood Cut	<input type="checkbox"/>		Selection Cut	<input type="checkbox"/>	Patch Cut	<input type="checkbox"/>	Strip Cut	<input type="checkbox"/>			
Commercial Thinning	<input type="checkbox"/>		Afforestation	<input type="checkbox"/>	Site Preparation	<input checked="" type="checkbox"/>					
Pre-commercial Thinning	<input type="checkbox"/>		Reforestation	<input checked="" type="checkbox"/>	Riparian Zone Mgmt	<input type="checkbox"/>					
Pln. Maint.	<input checked="" type="checkbox"/>	Y / N	Stems/Ha								
Comments:	This is a LA/BS plantation. The LA to the south is dead and dying due to an insect infestation. The BS has a higher component in the north. The LA is healthier in the north part of the stand as well. It is expected that the LA infestation will continue to spread. Block harvest the stand. Retain RM and cover patches with a BS component. Plant WS, BS, WP and WA. Vplow was used for site prep.										

STAND TALLY SHEET											
CRUISER	S. Rankin			STAND #	21475			PLANTATION #	3811711		
PROPERTY #	59139			AREA	2.6	ha	Date	3 / 8 / 2022	D	M	Y
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	LA	42	28	17	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 (%)	LA9	%	BS1	%		%	GB, RM, WB, BF, MAsh				
Even-aged	X		Uneven-aged							Biomass	
Slope level	%	Aspect									
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed				
	Windfall		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	2000	HW	100							
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.	RM	Height	0.2-3.0	2. Spp.		Height				
	3. Spp.		Height		4. Spp.		Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	wild raisin, grass, golden rod, fern, dewberry, raspberry, Star Flower, sensitive fern, other ferns, horsetail										
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	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	None observed										
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	X					
Pre-commercial Thinning			Reforestation	X	Riparian Zone Mgmt						
Pln. Maint.	X	Y / N	Stems/Ha								
Comments:	This LA plantation is heavily infected with insects and is 80% dead or dying. There is a large blowdown patch to the north where the site is wetter. Harvest this stand to salvage wood before it degrades any further. Vegetation is heavily expressed as the stand has opened up and it will be difficult to establish trees. Plant White Ash if possible. Retain young and old RM.										

STAND TALLY SHEET											
CRUISER	S. Rankin			STAND #	211436 & 211437			PLANTATION #	3780001		
PROPERTY #	59139			AREA	5.4 ha			Date	3 /	8 /	2022
									D	M	Y
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT	
1	BS	37	18	13		4					
2	LA	44	27	16		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 (%)	BSBF 5 %	LA5	%	%	%	%	GB, RM				
Even-aged	X	Uneven-aged								Biomass	
Slope level	%	Aspect									
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed				
	Windfall		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	2000	HW	100							
Advanced Regeneration:	Understocked		Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.	Mash	Height	0.5m	2. Spp.		Height				
	3. Spp.		Height		4. Spp.		Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	wild raisin, grass, golden rod, fern, raspberry, dewberry, horsetail, sensitive fern, elderberry, red osier dogwood.										
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	Squirrel caches in hummocks between rows (site VH plowed)										
Comments											
STAND PRESCRIPTION											
No Treatment				Regeneration Cut		Crop Tree Release		Block Cut	X		
Shelterwood Cut				Selection Cut		Patch Cut		X	Strip Cut		
Commercial Thinning				Afforestation		Site Preparation		X			
Pre-commercial Thinning				Reforestation	X	Riparian Zone Mgmt					
Pln. Maint.	X	Y / N		Stems/Ha							
Comments:	LA dominates the north part of the stand and BS dominates the south part of the stand. The LA in this stand is still healthy at this time but infestation in the LA on the property is expected to spread.										
	There are small pockets of blowdown of BS/LA throughout the stand. Conduct small patch cuts with focus on blowdown areas to diversify the stand. Plant WA, BS, WP.										

STAND TALLY SHEET											
CRUISER	S. Rankin		STAND #	211294 & 211384		PLANTATION #	3080031 & 3080032				
PROPERTY #	59139		AREA	5.0	ha	Date	3 /	8 /	2022		
							D	M	Y		
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT	
1	WP	14	5	8		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 (%)	WP4	%	BF2	%	BS1	%	RM1	%	GB1, POPM1		
Even-aged	2-aged	Uneven-aged			Mature Stand RM,PO,WB, BF					Biomass	
Slope	level	%	Aspect								
Stand Origin:	Old Field		Partial Cut		Burn		Unploughed				
	Windfall		Non Forest				Ploughed				
	Clear Cut	X	Unknown								
Stand Maturity Class:	Regeneration	X	Immature		Mature		Over-mature				
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy				
Density:	SW	2600	HW	10000 +							
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.	BF	Height	0.6-4.0m	2. Spp.		Height				
	3. Spp.	BS	Height	0.5-3.0m	4. Spp.		Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	wild raisin, grass, golden rod, fern, rose, raspberry, other woody stem shrubs and herbaceous.										
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	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	None observed										
Comments	This stand borders a wetland. Apply a 15-m buffer.										
STAND PRESCRIPTION											
No Treatment			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.	X	Y / N	Stems/Ha								
Comments:	This was a mature HW/mixedwood stand that had SW harvested from it. The harvest pockets and strips were planted with WP. At this stage of development, layout and treatment of the site is extremely difficult except for some continuous areas. Maintain areas that layout and treatment is possible. The WP is not weevilled. Leave remaining area as is to develop as a 2-aged stand.										

STAND TALLY SHEET											
CRUISER		S. Rankin		STAND #		211293		PLANTATION #			
PROPERTY #		59139		AREA		1.4 ha		Date		3 / 8 / 2022	
								D M Y			
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	BS	76	27	18	4						
2					5						
3					6						
STAND INFORMATION											
Stand Basal Area		SW 44 M ² /Ha		SWSL 14 M ² /Ha		HW 4 M ² /Ha		HWSL M ² /Ha			
Species and (%)		BS4 %		GB1 %		PO1 %		BF3 %		(WP, RM, LA)1	
Even-aged		X		Uneven-aged				Biomass			
Slope level		% Aspect									
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed			
		Windfall		Non Forest				Ploughed			
		Clear Cut		X		Unknown					
Stand Maturity Class:		Regeneration		Immature		Mature		X		Over-mature	
Stand Stocking:		Understocked		Fully Stocked		X		Overstocked		Patchy	
Density:		SW 2600		HW 400							
Advanced Regeneration:		Understocked		X		Fully Stocked		Overstocked		Patchy	
Regeneration:		1. Spp. BS		Height 0.2-4.0m		2. Spp. RM		Height 0.1-0.2m			
		3. Spp. BF		Height 0.2-4.0m		4. Spp. WB		Height 0.1-0.2m			
GROUND OBSERVATIONS											
Ground Vegetation Species Present:		wild raisin, fern, sarsaparilla, star flower, blueberry, bunch berry									
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		X		Good	
										Excellent	
Erosion Control Required		N		Y / N							
Snag Trees:		Adequate		X		Inadequate					
Coarse Woody Material:		Adequate		X		Inadequate					
Dens		Y		Nests (Raptors, songbirds, etc.)		N					
Wildlife Observed		Squirrel caches.									
Comments											
STAND PRESCRIPTION											
No Treatment				Regeneration Cut				Crop Tree Release			
Shelterwood Cut				Selection Cut				Patch Cut			
Commercial Thinning				Afforestation				Site Preparation		X	
Pre-commercial Thinning				Reforestation		X		Riparian Zone Mgmt			
Pln. Maint.		X Y / N		Stems/Ha							
Comments:		This is an older healthy stand of BS with some natural WP. Block harvest this site. Retain WP and RM. Prepare microsites and plant WS, RS, and WP.									

STAND TALLY SHEET																									
CRUISER		S. Rankin		STAND #		21400		PLANTATION #																	
PROPERTY #		59139		AREA		2.9 ha		Date		3 / 8 / 2022															
								D M Y																	
SAMPLE TREE INFORMATION																									
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT																
1	PO	?	25	17	4																				
2					5																				
3					6																				
STAND INFORMATION																									
Stand Basal Area		SW		4 M ² /Ha		SWSL		M ² /Ha		HW		28 M ² /Ha		HWSL		M ² /Ha									
Species and (%)		PO 4 %		GB2 %		RM2 %		WB1 %		(BS, BF)1															
Even-aged		X		Uneven-aged						Biomass				X											
Slope level		% Aspect																							
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed																	
		Windfall		Non Forest		Ploughed																			
		Clear Cut		X		Unknown																			
Stand Maturity Class:		Regeneration		Immature		X		Mature		Over-mature															
Stand Stocking:		Understocked		Fully Stocked		Overstocked		X		Patchy															
Density:		SW		400		HW		3,000																	
Advanced Regeneration:		Understocked		X		Fully Stocked		Overstocked		Patchy															
Regeneration:		1. Spp. BF		Height 0.3-6.0m		2. Spp.		Height																	
		3. Spp. BS		Height 0.2-6.0m		4. Spp.		Height																	
GROUND OBSERVATIONS																									
Ground Vegetation Species Present:		wild raisin, grass, golden rod, fern, rose, ground hemlock, bunch berry, blueberry, star flower																							
Ground Hemlock		X		Y / N																					
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		X		Good		Excellent		Erosion Control Required				N		Y / N					
Snag Trees:		Adequate		Inadequate		X																			
Coarse Woody Material:		Adequate		X		Inadequate																			
Dens		N		Nests (Raptors, songbirds, etc.)		N																			
Wildlife Observed		None observed																							
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		X															
Pre-commercial Thinning				Reforestation		X		Riparian Zone Mgmt																	
Pln. Maint.		X		Y / N		Stems/Ha																			
Comments:		This is a PO/HW dominated site. There is BF/BS area on the south of the stand that can be harvested and planted with WS. The WB, GB and PO can be harvested from the HW portion of the stand and the site planted with WS. WP can be mixed in along with some WA in wetter spots. Maintain as required.																							

STAND TALLY SHEET												
CRUISER	S. Rankin			STAND #	21917			PLANTATION #				
PROPERTY #	59139			AREA	1.7	ha	Date	3 /	8 /	2022		
								D	M	Y		
SAMPLE TREE INFORMATION												
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT			
1	LA	48	28	17	4							
2					5							
3					6							
STAND INFORMATION												
Stand Basal Area	SW	26	M ² /Ha	SWSL	20	M ² /Ha	HW		M ² /Ha	HWSL		M ² /Ha
Species and (%)	LA10	%		%		%		GB				
Even-aged	X		Uneven-aged							Biomass		
Slope level	%	Aspect										
Stand Origin:	Old Field	X	Partial Cut		Burn			Unploughed				
	Windfall		Non Forest					Ploughed				
	Clear Cut		Unknown									
Stand Maturity Class:		Regeneration		Immature		Mature	X	Over-mature				
Stand Stocking:		Understocked		Fully Stocked	X	Overstocked		Patchy				
Density:	SW	1400	HW	100								
Advanced Regeneration:		Understocked	X	Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.	BS	Height	1.5-2.5m	2. Spp.		Height					
	3. Spp.		Height		4. Spp.		Height					
GROUND OBSERVATIONS												
Ground Vegetation Species Present:	alder, wild raisin, grass, golden rod, bracken fern, rose, wild strawberry											
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	X	Inadequate									
Coarse Woody Material:	Adequate	X	Inadequate									
Dens	N	Nests (Raptors, songbirds, etc.)	N									
Wildlife Observed	None observed											
Comments	Apply a 15m buffer along the wetland											
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	X					
Pre-commercial Thinning				Reforestation	X	Riparian Zone Mgmt						
Pln. Maint.	X	Y / N		Stems/Ha								
Comments:	Part of this stand has blown down. A lot of the standing LA is open grown and wolfy. The site is very wet and not suitable to heavy equipment. There is a 10-20% insect infestation currently in the LA which is expected to spread. Harvest downed and standing LA with small equipment on frozen ground. Plant WA. Heavy herbaceous vegetation is expected.											

STAND TALLY SHEET											
CRUISER	S. Rankin			STAND #	21915			PLANTATION #			
PROPERTY #	59139			AREA	4.2	ha	Date	4 /	8 /	2022	
								D	M	Y	
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	LA	?	20	17	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	%	GB, RM				
Even-aged	X	Uneven-aged			Biomass						
Slope level	%	Aspect									
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed				
	Windfall		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	200	HW	200							
Advanced Regeneration:	Understocked			Fully Stocked			Overstocked		Patchy		
Regeneration:	1. Spp.		Height		2. Spp.		Height				
	3. Spp.		Height		4. Spp.		Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:											
Ground Hemlock <input type="checkbox"/> Y / N <input checked="" type="checkbox"/> X											
Invasive Species Present <input type="checkbox"/> Y / N <input checked="" type="checkbox"/> X If yes then what species:											
Site Indicators <input type="checkbox"/> Y / N <input checked="" type="checkbox"/> 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	None 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:	This is open grown LA on an extremely wet site-borderline wetland. Most of the site is alder.										
	Treatment is not warranted on this stand.										

STAND TALLY SHEET												
CRUISER	S. Rankin			STAND #	211518			PLANTATION #				
PROPERTY #	59139			AREA	1.7	ha	Date	4 /	8 /	2022		
								D	M	Y		
SAMPLE TREE INFORMATION												
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT			
1	LA	36	22	15	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 (%)	LA7	%	WS1	%	AL2	%	GB, Wash					
Even-aged	X		Uneven-aged							Biomass		
Slope level	%	Aspect										
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed					
	Windfall		Non Forest				Ploughed					
	Clear Cut		Unknown									
Stand Maturity Class:	Regeneration			Immature	X		Mature		Over-mature			
Stand Stocking:	Understocked	X		Fully Stocked			Overstocked		Patchy			
Density:	SW	1600	HW	100								
Advanced Regeneration:	Understocked			Fully Stocked			Overstocked		Patchy			
Regeneration:	1. Spp.		Height		2. Spp.		Height					
	3. Spp.		Height		4. Spp.		Height					
GROUND OBSERVATIONS												
Ground Vegetation Species Present:	wild raisin, golden rod, aster, dewberry, spiraea, sensitive fern, alder, elderberry											
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	None observed											
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	X						
Pre-commercial Thinning			Reforestation	X	Riparian Zone Mgmt							
Pln. Maint.	X	Y / N	Stems/Ha									
Comments:	This is a natural stand of LA. The stand has patchy density with open grown LA being wolfy. There are pockets of LA that are dead and dying due to an insect infestation. Areas that are still standing appear healthy, although, it is expected that insects will continue to infect the stand. The site is very wet. Harvest and plant WA. Vegetation is heavy so establishing trees will be difficult.											

STAND TALLY SHEET											
CRUISER	S. Rankin			STAND #	21913			PLANTATION #			
PROPERTY #	59139			AREA	1.5	ha	Date	4 /	8 /	2022	
								D	M	Y	
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT	
1						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 (%)	LA2	%	AL3	%	WS2	%	RM2	%	PO1		
Even-aged	X		Uneven-aged							Biomass	
Slope level	%	Aspect									
Stand Origin:	Old Field		Partial Cut	X	Burn		Unploughed				
	Windfall		Non Forest				Ploughed				
	Clear Cut		Unknown								
Stand Maturity Class:	Regeneration		Immature	X	Mature		Over-mature				
Stand Stocking:	Understocked	X	Fully Stocked		Overstocked		Patchy				
Density:	SW	400	HW	800							
Advanced Regeneration:	Understocked		Fully Stocked		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, fern, rose										
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	X	Inadequate								
Coarse Woody Material:	Adequate	X	Inadequate								
Dens	N	Nests (Raptors, songbirds, etc.)	N								
Wildlife Observed	None observed										
Comments	Retain a 15m buffer along wetland.										
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. This stand lies between the bog and boundary line. There is very little stand left to treat once the 15m buffer and boundaryline is established. Not economical. No treatment is warranted at this time. A field assessment was not conducted on this stand.										

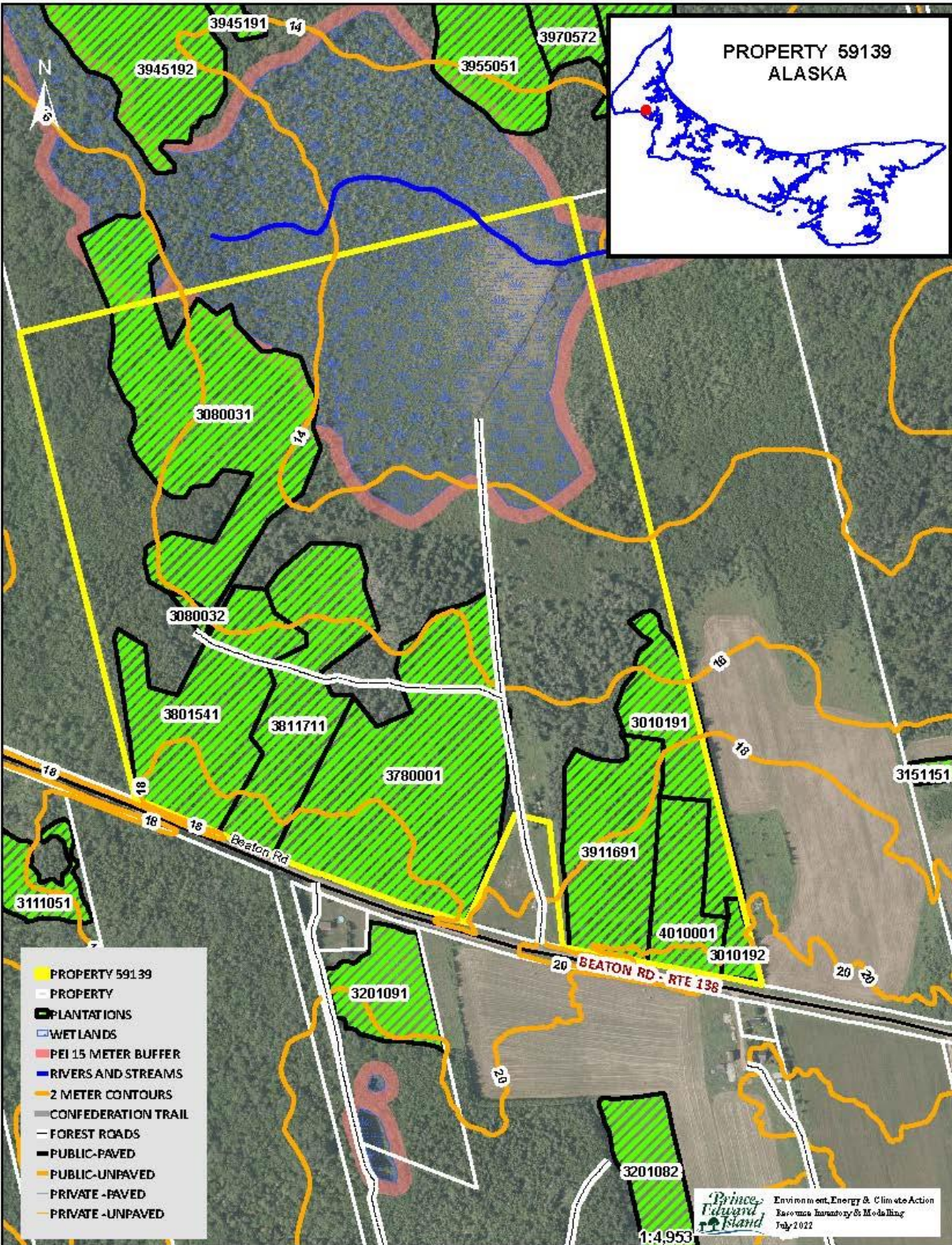
STAND TALLY SHEET											
CRUISER	S. Rankin			STAND #	21814			PLANTATION #	3911691		
PROPERTY #	59139			AREA	2.2	ha	Date	4 /	8 /	2022	
								D	M	Y	
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	WS	32	29	14	4						
2	RP	32	32	14	5						
3					6						
STAND INFORMATION											
Stand Basal Area	SW	22	M ² /Ha	SWSL		M ² /Ha	HW	18	M ² /Ha	HWSL	M ² /Ha
Species and (%)	WS4	%	RP4	%	LA1	%	GB1	%	RM		
Even-aged	X		Uneven-aged							Biomass	
Slope level	%	Aspect									
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed				
	Windfall		Non Forest				Ploughed				
	Clear Cut		Unknown								
Stand Maturity Class:	Regeneration		Immature	X	Mature		Over-mature				
Stand Stocking:	Understocked		Fully Stocked		Overstocked	X	Patchy				
Density:	SW	1600	HW	200							
Advanced Regeneration:	Understocked		Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.		Height		2. Spp.		Height				
	3. Spp.		Height		4. Spp.		Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	dewberry, golden rod, raspberry, grasses, aster, red-osier dogwood, fern, sensitive fern, spiraea, star flower										
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	None observed										
Comments											
STAND PRESCRIPTION											
No Treatment			Regeneration Cut		Crop Tree Release		Block Cut				
Shelterwood Cut			Selection Cut		Patch Cut		X	Strip Cut			
Commercial Thinning			Afforestation		Site Preparation		X				
Pre-commercial Thinning			Reforestation	X	Riparian Zone Mgmt						
Pln. Maint.	X	Y / N	Stems/Ha								
Comments:	This stand is healthy and still growing. Stocking is variable. The RP are not of good form or quality.										
	To diversify the stand conduct small patch cuts and plant with WS, WP, RO, and WA.										

STAND TALLY SHEET											
CRUISER	S. Rankin			STAND #	211243 & 21611			PLANTATION #	3010191		
PROPERTY #	59139			AREA	1.5 ha			Date	4 /	8 /	2022
								D	M	Y	
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	NS	22	10-14cm	6-8m	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 (%)	NS9	%	GB1	%		%	LA, PO				
Even-aged	X		Uneven-aged							Biomass	
Slope level	%	Aspect									
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed				
	Windfall		Non Forest				Ploughed				
	Clear Cut		Unknown								
Stand Maturity Class:	Regeneration	X	Immature		Mature		Over-mature				
Stand Stocking:	Understocked	X	Fully Stocked		Overstocked		Patchy	X			
Density:	SW	200	HW	200							
Advanced Regeneration:	Understocked		Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.		Height		2. Spp.		Height				
	3. Spp.		Height		4. Spp.		Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	thick grass, golden rod, alder, raspberry, red oiser dogwood, dewberry, ferns										
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		Inadequate	X							
Coarse Woody Material:	Adequate		Inadequate	X							
Dens	N	Nests (Raptors, songbirds, etc.)	N								
Wildlife Observed	None 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:	This plantation is not satisfactorily stocked (NSR). The site is heavy to alder. Pockets of GB/PO are suppressing trees as well. The NS are weeviled. It would take a considerable \$\$ investment to bring this stand into production; therefore, at this time no treatment is recommended. Leave as is.										

STAND TALLY SHEET											
CRUISER	S. Rankin			STAND #	211243			PLANTATION #	4010001		
PROPERTY #	59139			AREA	1.2	ha	Date	19 /	11 /	2015	
								D	M	Y	
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	NS	22	12cm	6-8m	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 (%)	NS9	%	GB1	%		%	PO, LA				
Even-aged	X		Uneven-aged							Biomass	
Slope level	%	Aspect									
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed				
	Windfall		Non Forest				Ploughed				
	Clear Cut		Unknown								
Stand Maturity Class:	Regeneration	X	Immature		Mature		Over-mature				
Stand Stocking:	Understocked		Fully Stocked		Overstocked		Patchy	X			
Density:	SW	800	HW	400							
Advanced Regeneration:	Understocked		Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.	RM	Height	1.0-2.5m	2. Spp.		Height				
	3. Spp.		Height		4. Spp.		Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	golden rod, aster, grasses, dewberry, fern, other herbaceous, woody shrubs										
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		Inadequate	X							
Coarse Woody Material:	Adequate		Inadequate	X							
Dens	N	Nests (Raptors, songbirds, etc.)	N								
Wildlife Observed	None 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:	This is a tree improvement site. NS has patchy success. There are pockets of GB overtopping trees; however brushing is not recommended. The NS are weevilled. Leave the site as is.										

STAND TALLY SHEET											
CRUISER	S. Rankin			STAND #	211299			PLANTATION #	3010192		
PROPERTY #	59139			AREA	0.3	ha	Date	4 /	8 /	2022	
								D	M	Y	
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	WS	22	13cm	6-8m	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 (%)	WS6	%	LA4	%	GB	%	AL				
Even-aged	X		Uneven-aged							Biomass	
Slope level	%	Aspect									
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed				
	Windfall		Non Forest				Ploughed				
	Clear Cut		Unknown								
Stand Maturity Class:	Regeneration		Immature	X	Mature		Over-mature				
Stand Stocking:	Understocked	X	Fully Stocked		Overstocked		Patchy	X			
Density:	SW	1600	HW	200							
Advanced Regeneration:	Understocked		Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.		Height		2. Spp.		Height				
	3. Spp.		Height		4. Spp.		Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	grasses, golden rod, alder, aster										
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	Inadequate	X								
Coarse Woody Material:	Adequate	Inadequate	X								
Dens	N	Nests (Raptors, songbirds, etc.)	N								
Wildlife Observed	None 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:	Stocking on this plantation is patchy but ingress has filled in some of the site. It is a very small site and does not warrant any work at this time.										

Appendix F. Plantation Map with Contour Lines



Appendix G. 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