

Date: April 12, 2023

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



**Woodlot Management Plan**

**Property Number: 225458**

**Location: Brookvale**

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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 # 225458 is located on Route #13, in the community of Brookvale, P.E.I. (Appendix A).

The total area of this property is 30.3 hectares (75 acres) and the midpoint of the property is Latitude N 46.284060 decimal degrees, Longitude W -63.390454 decimal degrees.

### **Past Information**

Local records and previous aerial photography show that approximately 27 hectares (67 acres) of this property was used for agricultural purposes early in the 20<sup>th</sup> century. To better illustrate this historical photography can be seen in Appendix B.

In 1935, photos show all the farmland being actively farmed. Structures are evident to the northwest corner adjacent to the highway.

By 1958, a small field to the south and a strip to the southeast were abandoned from farming. The remainder appears to be actively being farmed.

On the 1968 photo, all the old hedgerows are evident with advanced regeneration of natural White Spruce found reclaiming the abandoned fields.

### **Property Information**

The information in Appendix D has been taken from the 2010 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 are two streams located on this property. A small 3' stream is found to the north. The other or “main” stream on the south boundary is 15 to 20' wide. The stream from the north re-enters the property near the south end. This stream is identified as Skye Brook and empties into the main stream to the south. The water flows generally north to south and then southwest, eventually ending up in the Bonshaw River of the West River Watershed. This observation can be viewed in Appendix A.





The picture above shows siltation in a drainage gully at the north end of the property following an extreme rain event in 2018. A highway culvert was concentrating flow from adjacent open farm fields to the north of Rte#13. During rain or melt events, the flow carried sediment through the highways culvert onto the woodlot. The Forests, Fish & Wildlife Division brought the issue to the attention of Agriculture, the farmer and Highways officials. A plan was devised to construct erosion control measures on the adjacent farmland to help prevent future issues and protect the woodlot stream.

Small trout have been observed in various locations on the watercourses indicating the importance of these streams to local fish populations.

## Property Access

Access to this property is provided by a 1700m class 1 woodlot road. A bridge provides a stream crossing to the the north. This bridge had the deck replaced and upgrades to the stringers in 2018. The road then continues south end of the property to the stream.. Ongoing road maintenance will be required to keep the road in a useable condition. This will include keeping the right-of-way clear of any brush or trees, repairing rutting on the road, repairing any wet areas that restrict access, and any other maintenance required to keep these roads usable. Existing roads on the property can be seen on Appendix A.

During Fiona salvage operations, brush matting was used on the road surface near the bridge to prevent erosion. The brush layer will be removed from the road surface when sufficiently dry. The brush can be piled in a manner to create wildlife cover and enhance wildlife habitat. Below is a section of road with the brush mat layer in place.



### **Property Boundaries**

This property is bounded on the east and west by private land. The northern boundary fronts on Rte. #13. The southern boundary is found on the stream and adjacent to a protected “Natural Area” (NAPA) property owned by the Government of PEI.

### **Fire Protection**

This property is located within the jurisdiction of the Crapaud 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 are four-wheel drive forestry fire trucks 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. Specialized equipment includes “muskegs” that are designed for wildfires and these are on standby at the JF Gaudet Provincial Tree Nursery at Upton Rd., Charlottetown. The streams that flow through the property would be suitable sites to setup a portable fire pump system.

### **Planting and Silviculture**

There are 12 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 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. 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](http://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
Road	Road Maintenance	2023 to 2033 (as required)	1.7 km	Pg 12	Brush cutting, remove brush matt	Improve road access
Wildlife	Wildlife Enhancement	2023	0.3 km	Pg 34	Create brush piles on road edge and riparian zone edge	Create wildlife cover and nesting areas
941753 & 941752	Crop Tree Release	2023	0.4 Ha	Pg 23	Specific section to be flagged, release	Encourage development and quality
941753 & 941752	Invasive Species Removal	2023	1	Pg 38	Scotch Pine (GIS map attached)	Control spread of invasive species
94098 & (pocket 941355E) & 941436 & 94451	Manual Site Preparation and Plant	2023	6.00 Ha	Pg 14 & 16	Insufficient natural-regeneration present pre-Fiona windfall	Reforest, develop future healthy forest, enrich riparian zone
94098 & (pocket 941355E) & 941436 & 94451	Manual Site Preparation and Enrichment Plant	2023	6.00 Ha	Pg 14 & 17	Scatter plant at low density	Develop diversity and future seed sources
94334	Manual Site Preparation and Enrichment Plant	2023	0.77 Ha	Pg 14 & 17	Enrich plant with long-lived species in riparian zone	Create diversity in riparian zone, mast & future seed sources
941308 PN 2990311	Commercial Thin & Crop Tree Prune	2024	1.3 Ha	Pg 26 & 20	Too dense, good quality stems, minimal weevil	Maintain crown development and diameter growth on quality stems
941754 PN 2020311	Commercial Thin (Crop Tree Prune)	2024	0.98 Ha	Pg 26 & 20	Too dense, good quality stems, minimal weevil	Maintain crown development and diameter growth on quality stems
94098 & (pocket 941355E) & 941436 & 94451	Manual Maintenance	2027	6.00 Ha	Pg 17	Future maintenance if required, monitor yearly for timing	Help establish future forest, favour quality (maintain diversity)
ST 941355 (PN 3180121)	Manual Maintenance	2028	1.05	Pg 17	Monitor yearly to see if manual maintenance will be required, note: research PSP established	Continue development of established plantation and encourage diversity

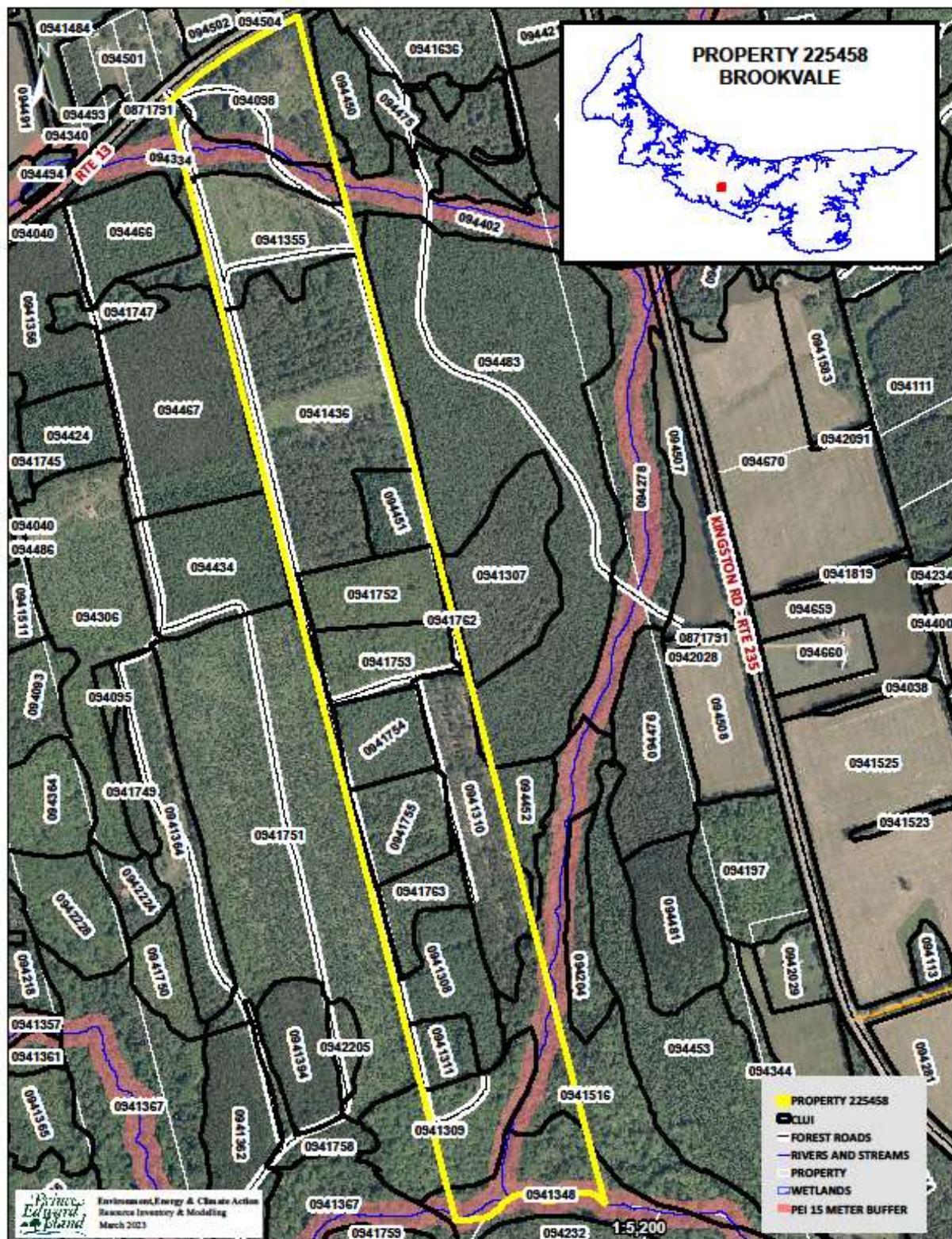
\*Many of the developing plantations have received treatments in the past. The road has been regularly maintained. Some stands require time to develop further. There was insufficient natural regeneration present under the old field White Spruce stands that were heavily damaged by Hurricane Fiona. A large portion of the property lacked diversity due to the history of farming. As the property is managed over time, transitions can be made to improve diversity and wildlife values while producing timber volume and value.

Following hurricane Fiona, the “old field” mature and over-mature timber stands were extensively damaged. Essentially 100% of the trees were blown over or broken off. An emergency salvage harvest was completed to remove timber volume and value, to capture some sequestered carbon, to allow for access for planting, and to mitigate fire risk with the extreme fuel loading. The picture below shows the conditions during Fiona salvage operations in an area that was completely forested prior to the storm.

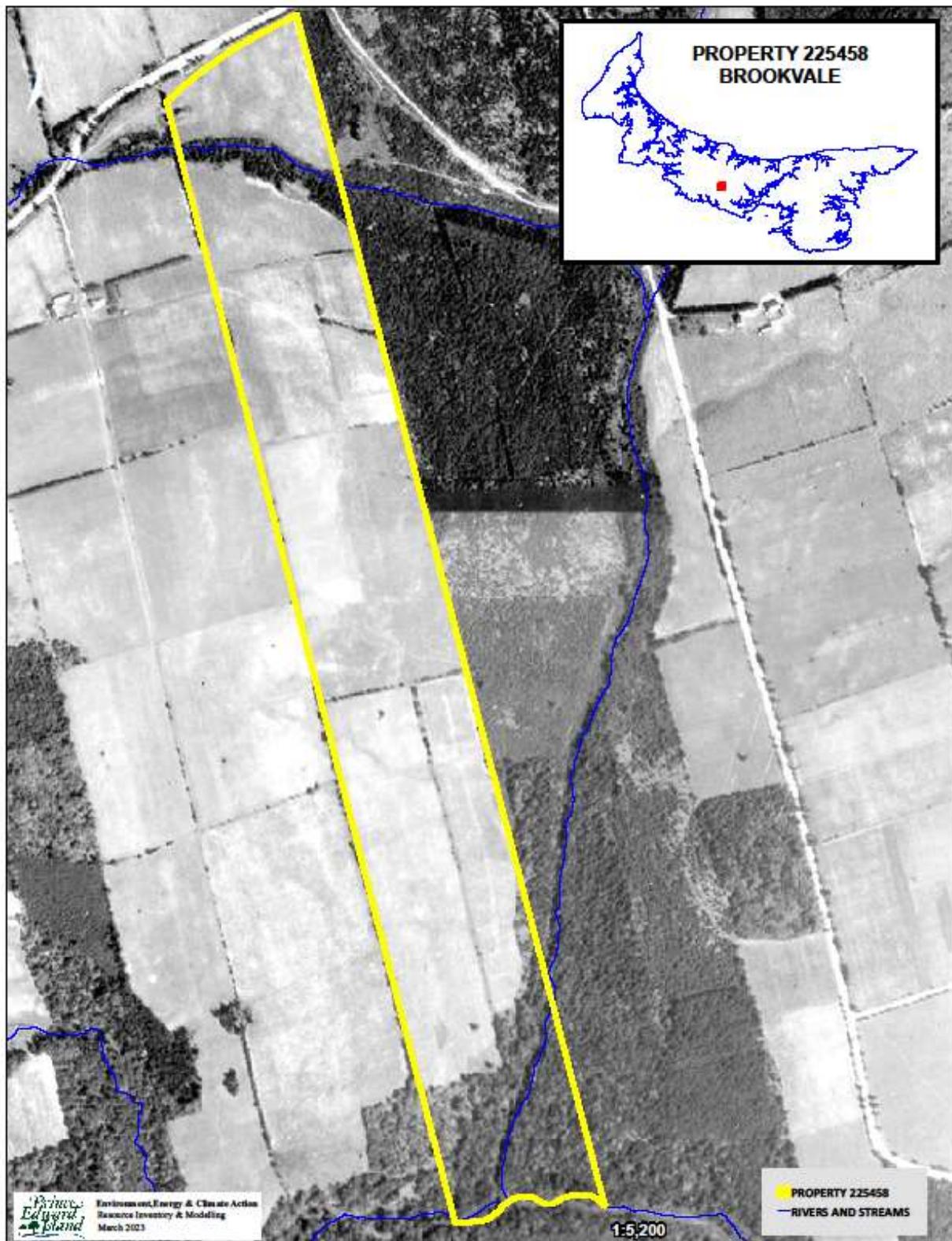


## Appendices

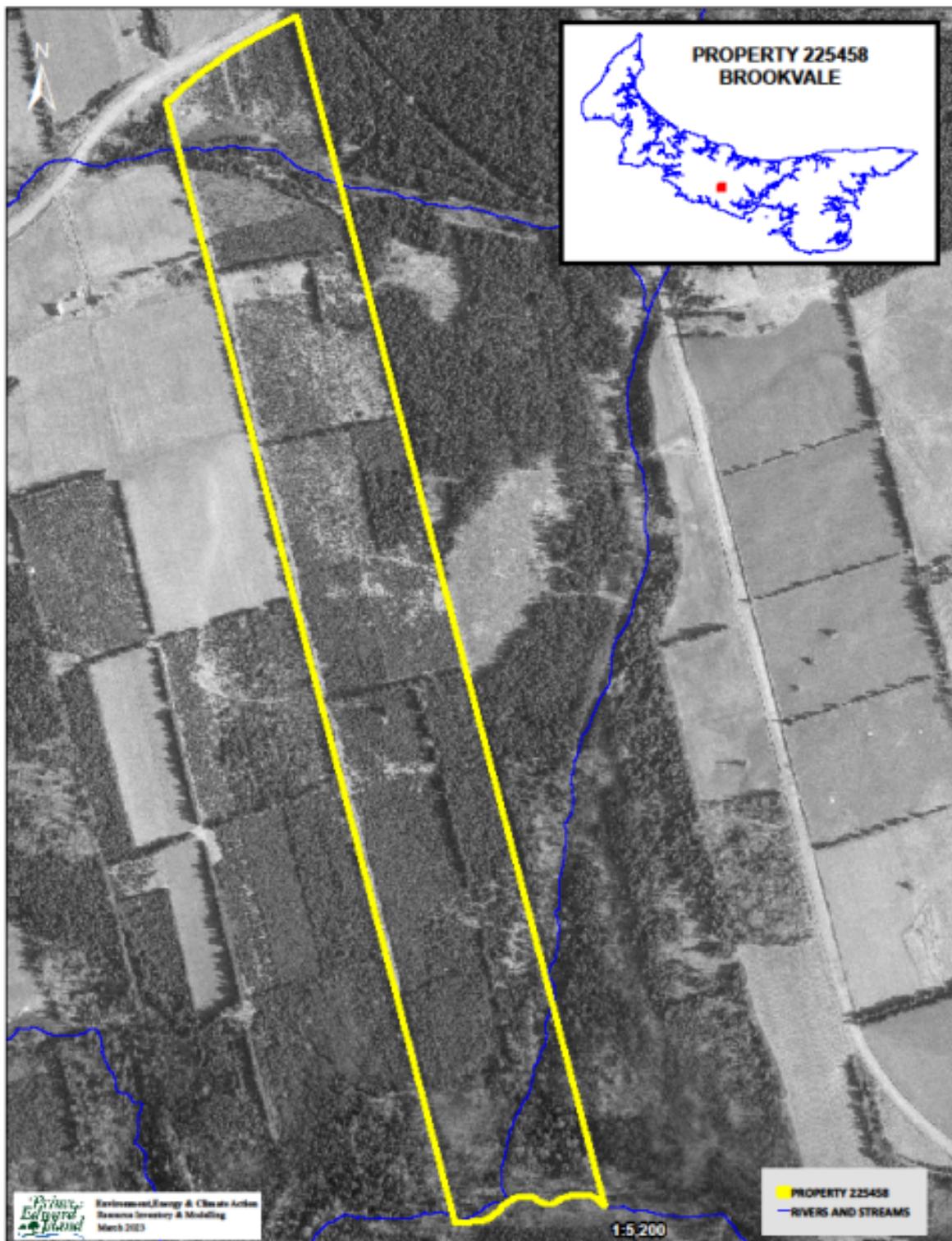
## Appendix A. Map of Property with Locator Map



## Appendix B. 1935 Aerial Photography



### Appendix C. 1968 Aerial Photography



**Appendix D. 2010 Corporate Land Use Inventory**

FIELDID	COVER1	PER1	COVER2	PER2	COVER3	PER3	COVER4	PER4	COVER5	PER5	HEIGHT	CROWN	HECTARES	WOODSTOCK
0941308	WP	9	WB	1		0		0		0	7	85	1.30	WP
0941754	WP	8	WB	1	PO	1		0		0	5	85	0.98	WP
094098	WS	10		0		0		0		0	15	85	1.80	WSPR
094334	WS	9	WB	1		0		0		0	17	65	0.74	WSPR
0941355	WS	10		0		0		0		0	14	85	1.91	WSPR
094483	WS	9	WB	1		0		0		0	4	80	0.05	WSPR
094467	RP	9	WP	1		0		0		0	8	90	0.00	RPPR
094451	BF	9	WB	1		0		0		0	9	80	0.66	BFPR
0941310	RP	10		0		0		0		0	11	75	2.10	RPPR
0941516	WS	3	RM	2	WB	2	BF	2	SM	1	16	75	1.03	SWIH
094452	NS	7	WB	2	RM	1		0		0	5	75	0.00	SWPR
0941311	NS	4	WP	3	WB	2	PO	1		0	7	55	0.52	SWMX
0941751	WS	10		0		0		0		0	0	0	0.30	WSPR
0941436	WS	9	WB	1		0		0		0	16	85	5.05	WSPR
0941755	NS	6	PO	2	WB	2		0		0	3	0	1.08	SWIH
0941348	RM	5	WB	2	PO	1	BF	1	WS	1	17	75	1.09	IHMX
094402	WS	4	AL	3	RM	2	WB	1		0	12	45	0.03	IHSW
0941309	SM	4	RM	2	BF	2	WB	1	YB	1	18	85	1.24	THMX
0941752	PO	5	RM	2	WB	2	NS	1		0	6	60	1.19	IHMX
0941753	PO	3	RM	3	WB	2	WS	1	PC	1	6	60	1.13	IHMX
0941763	BS	3	RM	3	WB	2	PO	1	PC	1	6	75	0.70	IHMX

## Appendix E. Forest Inventory Codes

### **EXPLANATION OF FOREST CODES; SPECIES**

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

<b>PERCENT</b>		<b>CROWN CLOSURE</b>	
<b>0</b>	1 - 9%	<b>A</b>	91 % - 100%
<b>1</b>	10 - 19%	<b>B</b>	81 % - 90 %
<b>2</b>	20 - 29 %	<b>C</b>	71 % - 80 %
<b>3</b>	30 - 39 %	<b>D</b>	61 % - 70 %
<b>4</b>	40 - 49 %	<b>E</b>	51 % - 60 %
<b>5</b>	50 - 59 %	<b>F</b>	41 % - 50 %
<b>6</b>	60 - 69 %	<b>G</b>	31 % - 40 %
<b>7</b>	70 - 79 %	<b>H</b>	21 % - 30 %
<b>8</b>	80 - 89 %	<b>I</b>	11 % - 20 %
<b>9</b>	90 - 100 %	<b>J</b>	0 % - 10 %

### **ORIGIN AND HISTORY**

Burn	<b>DI</b>	Disease-Insect
Wind Fall	<b>OF</b>	Old Field
Partial Cut	<b>PN</b>	Plantation
Clear Cut	<b>HR</b>	Hedgerow
Thinning	<b>EP</b>	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 over lay 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**

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

### **FOREST GROUND CONDITION**

<b>SW</b>	Wet – Swampy
<b>ST</b>	Steep
<b>SY</b>	Sandy

## Appendix F. Stand Tally Sheets from on the Ground Assessment

### STAND TALLY SHEET

CRUISER L. Stevenson STAND # 941753 and 941752 PLANTATION # 2030221&2030222 (NS)  
 PROPERTY # 225458 AREA 2.32 ha Date 7 / 2 / 2023  
 D M Y

SAMPLE TREE INFORMATION				
TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	GB	20	13	9
2	PC	20	8	7
3	NS	20	12	7
4				
5				
6				

STAND INFORMATION									
Stand Basal Area	SW	M <sup>2</sup> /Ha	SWSL	M <sup>2</sup> /Ha	HW	M <sup>2</sup> /Ha	HWSL	M <sup>2</sup> /Ha	
Species and (%)	GB 30 %	PC 50 %	%	%	(RM), (NS to W, a few), WB, PO, AL, MA				
Even-aged	X	Uneven-aged				Biomass			
Slope	8 %	Aspect	SE						
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed		
	Windfall		Non Forest				Ploughed	X	
	Clear Cut	X	Unknown						
Stand Maturity Class:		Regeneration		Immature	X	Mature		Over-mature	
Stand Stocking:		Understocked		Fully Stocked	X	Overstocked		Patchy	
Density:	SW *	HW 5,000							
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:	fireweed opening (AL and Wi noted) raspberry, choke cherry, beaked hazel mountain Ash to south				
Ground Hemlock	X				
Invasive Species Present	X	Y / N			
Site Indicators					

ENVIRONMENTAL OBSERVATIONS												
Water Course		Bog		Pond		Stream		Seeps		Beaver Present	X	Y / N
Drainage:	Poor		Moderate		Good	X	Excellent	X		Erosion Control Required		Y / N
Snag Trees:	Adequate		Inadequate	X								
Coarse Woody Material:		Adequate		Inadequate	X							
Dens												
Wildlife Observed												
Comments												

STAND PRESCRIPTION									
No Treatment			Regeneration Cut		Crop Tree Release	X	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:	Wildfire enhance patch cut but no volume (probably not feasible due to no product, biomass future) Crop Tree Release to west (NS, clear around), keep diversity, release softwoods in small area, take GB and PC, leave WB (leders in open over 1m), not Free to Grow on planted stems, most planted NS failed, (GB 8m, NS 4m), only pocket to treat southwest and west (crew?)								

### STAND TALLY SHEET

CRUISER	L. Stevenson	STAND #	941763	PLANTATION #	2020313(BS)
PROPERTY #	225458	AREA	0.7 ha	Date	7 / 2 / 2023
				D	M Y

#### SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	BS	21	17	6	4				
2	BS	21	10	7	5				
3	BS	21	8	6	6				

#### STAND INFORMATION

Stand Basal Area	SW	M <sup>2</sup> /Ha	SWSL	M <sup>2</sup> /Ha	HW	M <sup>2</sup> /Ha	HWSL	M <sup>2</sup> /Ha
Species and (%)	BS 10	%	%	%	%	RM, WB (couple left)		
Even-aged	X	Uneven-aged					Biomass	
Slope	8	%	Aspect	E				
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed	
	Windfall		Non Forest				Ploughed	X
	Clear Cut	X	Unknown					
Stand Maturity Class:	Regeneration		Immature	X	Mature		Over-mature	
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy	
Density:	SW 1750	HW						
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy	
Regeneration:	1. Spp. PC	Height	2	2. Spp. PO	Height	2		
	3. Spp.	Height		4. Spp.	Height			

#### GROUND OBSERVATIONS

Ground Vegetation Species Present:	snow cover		
Ground Hemlock	Y / N	X	
Invasive Species Present	Y / N	If yes then what species:	
Site Indicators	Y / N	If yes then what species:	

#### ENVIRONMENTAL OBSERVATIONS

Water Course	Bog	Pond	Stream	Seeps		Beaver Present	Y / N	
Drainage:	Poor	Moderate	Good	X	Excellent	X	Erosion Control Required	Y / N
Snag Trees:	Adequate		Inadequate	X				
Coarse Woody Material:	Adequate		Inadequate	X				
Dens		Nests (Raptors, songbirds, etc.)						
Wildlife Observed	hare sign (minimal)							
Comments	immature dense crowns, openings, nesting opportunities							

#### 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:	good to go, monitor periodically, crowns OK, not quality BS site (too dry) check for insect defoliation periodically (2-3 years), stand is doing well, just monitor for changes in health at this point and leave to develop					

### STAND TALLY SHEET

CRUISER	L. Stevenson	STAND #	941355	PLANTATION #	_ 3180121 WS(WP)
PROPERTY #	225458	AREA	1.91 ha	Date	7 / 2 / 2023
				D M Y	

#### SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	*TREE #'s in Plantation				
					WS	1449	RO	65	
1									
2						YB	30	SM	30
3						WP			

#### STAND INFORMATION

Stand Basal Area	SW	M <sup>2</sup> /Ha	SWSL	M <sup>2</sup> /Ha	HW	M <sup>2</sup> /Ha	HWSL	M <sup>2</sup> /Ha
Species and (%)	%	%	%	%	%	PO, PC, WB		
Even-aged	X	Uneven-aged					Biomass	
Slope	12 %	Aspect	N/NE					
Stand Origin:	Old Field	X	Partial Cut	X	Burn		Unploughed	
	Windfall	X	Non Forest				Ploughed	X
	Clear Cut	X	Unknown					
Stand Maturity Class:	Regeneration	X	Immature		Mature		Over-mature	X
Stand Stocking:	Understocked		Fully Stocked		Overstocked		Patchy	X
Density:	SW	1500	HW					
Advanced Regeneration:	Understocked		Fully Stocked	X	Overstocked		Patchy	
Regeneration:	1. Spp.	WS	Height	1.2	2. Spp.		Height	
	3. Spp.		Height		4. Spp.		Height	

#### GROUND OBSERVATIONS

Ground Vegetation Species Present:	raspberry, pin cherry, grass, moss, goldthread, blackberry					
Ground Hemlock	Y / N	X				
Invasive Species Present	Y / N		If yes then what species:			
Site Indicators	Y / N		If yes then what species:			

#### ENVIRONMENTAL OBSERVATIONS

Water Course	Bog	Pond	Stream	X	Seeps		Beaver Present	Y / N
Drainage:	Poor	Moderate	Good		Excellent	X	Erosion Control Required	Y / N
Snag Trees:	Adequate		Inadequate	X				
Coarse Woody Material:	Adequate	X	Inadequate					
Dens		Nests (Raptors, songbirds, etc.)						

Wildlife Observed

Comments: ws snags (dead) but not stable adjacent to stream in riparian zone, good dense low cover

#### 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:	most of stand was clearcut and planted in 2018, the plantation had the first maintenance completed, some enrichment planting was completed as noted above, a small section on the eastern portion had old strips cuts that regenerated with raspberry and pincherry (no quality tree development), a pocket of young Po was saved for diversity during maintenance, a PSP research plot was established, buffer to south by stream, monitor plantation periodically to determine timing if maintenance needed						

CRUISER		L. Stevenson		STAND #	941436		PLANTATION #		
PROPERTY #		225458		AREA	5.08	ha	Date	7 / 2 / 2023	
					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 <sup>2</sup> /Ha	SWSL	M <sup>2</sup> /Ha	HW	M <sup>2</sup> /Ha	HWSL	M <sup>2</sup> /Ha	
Species and (%)	%	%	%	%	(WB, PO)				
Even-aged	Uneven-aged						Biomass		
Slope	5 %	Aspect	E, SE, N						
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed		
	Windfall	X	Non Forest				Ploughed	X	
	Clear Cut	X	Fiona	Unknown					
Stand Maturity Class:	Regeneration		Immature		Mature		Over-mature		
Stand Stocking:	Understocked	X	Fully Stocked		Overstocked		Patchy		
Density:	SW	HW							
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:			mountain ash, haircap moss, grass						
			noted wood fern, elderberry, and beaked hazel, raspberry north						
Ground Hemlock	Y / N	X							
Invasive Species Present	Y / N		If yes then what species:						
Site Indicators	Y / N		If yes then what species:						
ENVIRONMENTAL OBSERVATIONS									
Water Course	Bog	Pond	Stream	Seeps		Beaver Present	Y / N		
Drainage:	Poor	Moderate	Good	X	Excellent	Erosion Control Required	Y / N		
Snag Trees:	Adequate		Inadequate	X					
Coarse Woody Material:	Adequate	X	Inadequate						
Dens		Nests (Raptors, songbirds, etc.)							
Wildlife Observed									
Comments	a few small snags, no diversity, upturned root plates, a few mixed residuals including Mountain Ash								
STAND PRESCRIPTION									
No Treatment			Regeneration Cut		Crop Tree Release		Block Cut		
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:	NOTE: central strip cut 0.49 Ha planted with hardwoods 2018, WS planted 2019 (added a few WP), <b>Notes prior to Fiona:</b> "need to start to transition to future before advanced decline, precede <b>impending collapse and regeneration of mountain ash and raspberry (no regeneration under  stand which was selectively cut over time)"</b> , PSP research plot lost in hurricane Fiona, stand was completely windfelled with 100% damage (upturned roots, windfall, some broken stems) this stand was emergency Fiona salvaged and now requires planting to develop a future stand								

### STAND TALLY SHEET

CRUISER L. Stevenson		STAND #	94451	PLANTATION #	
PROPERTY #	225458	AREA	0.66 ha	Date	7 / 2 / 2023

#### SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1					4				
2	WP	35	33	14	5				
3	*residual				6				

#### STAND INFORMATION

Stand Basal Area	SW	M <sup>2</sup> /Ha	SWSL	M <sup>2</sup> /Ha	HW	M <sup>2</sup> /Ha	HWSL	M <sup>2</sup> /Ha
Species and (%)		%	%	%	%	%	(WP)	%
Even-aged	X	Uneven-aged						
Slope	7	%	Aspect	SE				
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed	
	Windfall	X	Non Forest				Ploughed	X
	Clear Cut	X	Unknown					
Stand Maturity Class:	Regeneration		Immature		Mature		Over-mature	
Stand Stocking:	Understocked	X	Fully Stocked		Overstocked		Patchy	
Density:	SW	125	HW					
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked			
Regeneration:	1. Spp.		Height		2. Spp.		Height	
	3. Spp.		Height		4. Spp.		Height	

#### GROUND OBSERVATIONS

Ground Vegetation Species Present:	Moss (minimal ground cover)		
Ground Hemlock	Y / N	X	
Invasive Species Present	Y / N		If yes then what species:
Site Indicators	Y / N		If yes then what species:

#### ENVIRONMENTAL OBSERVATIONS

Water Course	Bog	Pond	Stream	Seeps	Beaver Present	Y / N
Drainage:	Poor	Good	X	Excellent	Erosion Control Required	Y / N
Snag Trees:	Adequate		Inadequate	X		
Coarse Woody Material:	Adequate	X	Inadequate			
Dens		Nests (Raptors, songbirds, etc.)				
Wildlife Observed						

Comments a few scattered WP residuals left following hurricane Fiona damage

#### STAND PRESCRIPTION

No Treatment		Regeneration Cut		Crop Tree Release		Block Cut	
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:	immature plantation on exposed site, high elevation, damaged by hurricane Fiona, salvage removed						
	Balsam Fir component, a few scattered WP standing (future seed and diversity), area requires						
	planting and possible future maintenance to help develop future stand, no regeneration under						

### STAND TALLY SHEET

CRUISER	L. Stevenson	STAND #	94098	PLANTATION #	3180131(mix) 0.3Ha
PROPERTY #	225458	AREA	1.77 ha	Date	7 / 2 / 2023
				D	M Y

### SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT
1				
2				
3				

TREE #	Tree #'s planted in 3180131 (0.3Ha)		
	RO	30	WA
	YB	30	
	SM	30	

### STAND INFORMATION

Stand Basal Area	SW	M <sup>2</sup> /Ha	SWSL	M <sup>2</sup> /Ha	HW	M <sup>2</sup> /Ha	HWSL	M <sup>2</sup> /Ha
Species and (%)	%	%	%	%	WS, WB, RP			
Even-aged	X	Uneven-aged					Biomass	
Slope	5 %	Aspect	S/SW					
Stand Origin:	Old Field	X	Partial Cut	X	Burn		Unploughed	
	Windfall	X	Non Forest				Ploughed	X
	Clear Cut	X	Unknown					
Stand Maturity Class:	Regeneration	X	patch	Immature		Mature		Over-mature
Stand Stocking:	Understocked	X		Fully Stocked		Overstocked		Patchy
Density:	SW		HW					
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy	X
Regeneration:	1. Spp.	PC	Height	2	2. Spp.	GB	Height	1
	3. Spp.		Height		4. Spp.		Height	

### GROUND OBSERVATIONS

Ground Vegetation Species Present: patch cut (raspberry, grass, goldenrod, Gray Birch, Pincherry)  
under WS (was minimal ground cover, moss)

Ground Hemlock  Y / N  X

Invasive Species Present  Y / N  If yes then what species:

Site Indicators  Y / N  If yes then what species:

### ENVIRONMENTAL OBSERVATIONS

Water Course	X	Bog	Pond	Stream	X	Seeps		Beaver Present		Y / N
Drainage:	Poor		Moderate	Good	X	Excellent	X	Erosion Control Required	Y	Y / N
Snag Trees:	Adequate		Inadequate	X						
Coarse Woody Material:	Adequate	X	Inadequate							
Dens		Nests (Raptors, songbirds, etc.)								

Wildlife Observed

Comments patch cut with edge effect, riparian zone had some salvage

### STAND PRESCRIPTION

No Treatment		Regeneration Cut		Crop Tree Release		Block Cut	
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: \*a patch cut of mature WS was enrichment planted (0.28 ha patch 2018-19) & plantation maintained, main stand exposed to north and heavily damaged in hurricane Fiona, emergency salvage completed, stand located on dry slopes, complete windfall, stand contains bridge on woodlot road (deck upgraded), fixed with new deck, roadway brush mat to prevent erosion, requires planting to develop future forest. old underplantings damaged by fallen trees, plant and future manual maintenance, WS was in decline prior to Fiona, note WS residual around 63 years of age in riparian zone, enhance plant riparian zone

### STAND TALLY SHEET

CRUISER	L. Stevenson	STAND #	941308	PLANTATION #	2990311(WP)
PROPERTY #	225458	AREA	1.29 ha	Date	7 / 2 / 2023

#### SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	WP	24	25	12	4				
2	WP	24	21	11	5				
3					6				

#### STAND INFORMATION

Stand Basal Area	SW	M <sup>2</sup> /Ha	SWSL	M <sup>2</sup> /Ha	HW	M <sup>2</sup> /Ha	HWSL	M <sup>2</sup> /Ha
Species and (%)	WP100	%	%	%	%			
Even-aged	Uneven-aged							Biomass
Slope	14 %	Aspect	E					
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		Overstocked	X	Patchy	
Density:	SW	3500	HW					
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:	no ground cover (full WP needle coverage)		
Ground Hemlock	Y / N	X	
Invasive Species Present	Y / N	If yes then what species:	
Site Indicators	Y / N	If yes then what species:	

#### ENVIRONMENTAL OBSERVATIONS

Water Course	Bog	Pond	Stream	Seeps	Beaver Present	Y / N
Drainage:	Poor	Moderate	Good	X	Excellent	X
					Erosion Control Required	Y / N
Snag Trees:	Adequate		Inadequate	X		
Coarse Woody Material:	Adequate		Inadequate	X		
Dens		Nests (Raptors, songbirds, etc.)				
Wildlife Observed						

Comments: snowshoe hare tracks in snow

#### 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:	stand is too dense, stand would benefit from commercial thinning and prune on crop trees, old recreation trails started and abandoned, some WP weevil noted (15% or less of stems affected), 30% LCR, potential to grow in diameter but very dense, taller at top of slope					
	Commercial Thin and Prune if feasible and markets?, some pruned to southeast corner					

### STAND TALLY SHEET

CRUISER	L. Stevenson	STAND #	941311	PLANTATION #	2964501(mixed species)
PROPERTY #	225458	AREA	0.51 ha	Date	7 / 2 / 2023

#### SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	WP	27	24	12	4	RP		12	7
2	NS	27	23	12	5	WS		15	7
3	LA	27	27	13	6	BF		18	10

#### STAND INFORMATION

Stand Basal Area	SW	M <sup>2</sup> /Ha	SWSL	M <sup>2</sup> /Ha	HW	M <sup>2</sup> /Ha	HWSL	M <sup>2</sup> /Ha
Species and (%)	WP 40 %	LA 20 %	NS 20 %	%	WS, BF, RM, JL, RP			
Even-aged	X	Uneven-aged					Biomass	
Slope	15 %	Aspect	E					
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed	
	Windfall		Non Forest				Ploughed	X
	Clear Cut	X	Unknown					
Stand Maturity Class:	Regeneration		Immature	X	Mature		Over-mature	
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy	
Density:	SW	1500	HW	250				
Advanced Regeneration:	Understocked		Fully Stocked		Overstocked		Patchy	
Regeneration:	1. Spp.	PC	Height	2	2. Spp.	ChokeCh.	Height	2
	3. Spp.		Height		4. Spp.		Height	

#### GROUND OBSERVATIONS

Ground Vegetation Species Present:	goldenrod, grass, Pincherry, ChokeCherry, beaked hazel noted (SNOW cover)	
Ground Hemlock	Y / N	X
Invasive Species Present	Y / N	
Site Indicators	Y / N	

#### ENVIRONMENTAL OBSERVATIONS

Water Course	Bog	Pond	Stream	Seeps	Beaver Present	Y / N	
Drainage:	Poor	Moderate	Good	Excellent	X	Erosion Control Required	Y / N
Snag Trees:	Adequate	Inadequate	X				
Coarse Woody Material:	Adequate	Inadequate	X				
Dens		Nests (Raptors, songbirds, etc.)					
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:	old cleaning/plantation maintenance completed, some WP mixed and in openings (could be pruned) scattered NS with good vigor, WP good, RP poor quality, BF has good vigor, LA is dominant continue to monitor development and stand health			

STAND TALLY SHEET										
CRUISER	L. Stevenson		STAND #	941754		PLANTATION #	2020311(WP)			
PROPERTY #	225458		AREA	0.98 ha		Date	7 / 2 / 2023	D	M	
SAMPLE TREE INFORMATION										
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	WP	21	22	10		4				
2	WP	21	17	8		5				
3						6				
STAND INFORMATION										
Stand Basal Area	SW	M <sup>2</sup> /Ha	SWSL	M <sup>2</sup> /Ha	HW	M <sup>2</sup> /Ha	HWSL	M <sup>2</sup> /Ha		
Species and (%)	WP100	%	%	%	%					
Even-aged	Uneven-aged						Biomass			
Slope 6 %	Aspect SE									
Stand Origin:	Old Field X	Partial Cut	Burn		Unploughed					
	Windfall	Non Forest			Ploughed X					
	Clear Cut X	Unknown								
Stand Maturity Class:	Regeneration	Immature X	Mature	Over-mature						
Stand Stocking:	Understocked	Fully Stocked X	Overstocked X	Patchy						
Density: SW 3000 HW										
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:	NA (couple of Pincherry in old brush pile in opening)									
Ground Hemlock	Y / N X									
Invasive Species Present	Y / N X	If yes then what species:								
Site Indicators	Y / N	If yes then what species:								
ENVIRONMENTAL OBSERVATIONS										
Water Course	Bog	Pond	Stream	Seeps		Beaver Present	Y / N			
Drainage:	Poor	Moderate	Good X	Excellent	X	Erosion Control Required		Y / N		
Snag Trees:	Adequate	Inadequate X								
Coarse Woody Material:	Adequate	Inadequate X								
Dens	Nests (Raptors, songbirds, etc.)									
Wildlife Observed	snowshoe hare at edges, patches of bark peeled off up high on stems									
Comments	nest opportunities, dry gully, pin cherry, dense low cover,									
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:	needs Commercial Thin and prune crop trees, biomass product only (14cd/ac), good locale for WP, WP weevil tally less than 15% damage, windfall strip central due to Fiona, commercial thin to introduce air-flow in stand and limit blister rust, raised large bird in 2019									

### STAND TALLY SHEET

CRUISER	L. Stevenson	STAND #	941755	PLANTATION #	2020312(NS)
PROPERTY #	225458	AREA	1.08 ha	Date	7 / 2 / 2023

D M Y

#### SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	NS	21	18	11	4				
2	NS	21	13	10	5				
3	NS	21	13	9	6				

#### STAND INFORMATION

Stand Basal Area	SW	M <sup>2</sup> /Ha	SWSL	M <sup>2</sup> /Ha	HW	M <sup>2</sup> /Ha	HWSL	M <sup>2</sup> /Ha
Species and (%)	NS	100 %	%	%	%		WS, BF	
Even-aged	X	Uneven-aged					Biomass	
Slope	5 %	Aspect	E					
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed	
	Windfall		Non Forest				Ploughed	X
	Clear Cut	X	Unknown					
Stand Maturity Class:	Regeneration		Immature	X	Mature		Over-mature	
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy	
Density:	SW	1750	HW					
Advanced Regeneration:	Understocked		Fully Stocked		Overstocked		Patchy	
Regeneration:	1. Spp.	PC	Height	1.5	2. Spp.	PO	Height	1.5
	3. Spp.	WI	Height	1	4. Spp.		Height	

#### GROUND OBSERVATIONS

Ground Vegetation Species Present:	*snow cover	
Ground Hemlock	Y / N	X
Invasive Species Present	Y / N	If yes then what species:
Site Indicators	Y / N	If yes then what species:

#### ENVIRONMENTAL OBSERVATIONS

Water Course	Bog	Pond	Stream	Seeps	Beaver Present	Y / N
Drainage:	Poor	Moderate	Good	X	Excellent	X
Snag Trees:	Adequate		Inadequate	X		
Coarse Woody Material:	Adequate		Inadequate	X		
Dens		Nests (Raptors, songbirds, etc.)				
Wildlife Observed	snowshoe hare sign					
Comments	good crown for nesting, openings with coppice RM from past maintenance					

#### 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:	good, open, monitor periodically, was maintained in the past, good vigor, a couple affected by WP weevil but not many (good locale), good future stand, developing coppice from past maintenance providing cover and feeding source for snowshoe hare and others			

### STAND TALLY SHEET

CRUISER L. Stevenson STAND # 941309, 941516, 941348 PLANTATION # \_\_\_\_\_

PROPERTY # 225458 AREA 3.43 ha Date 28 3 / 2019

D M Y

#### SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	RM	80	30	17	4	SM	80	24	16
2	RM	80	28	16	5	RS	80	37	19
3	BF	75	18	10	6				

#### STAND INFORMATION

Stand Basal Area	SW	M <sup>2</sup> /Ha	SWSL	M <sup>2</sup> /Ha	HW	M <sup>2</sup> /Ha	HWSL	M <sup>2</sup> /Ha
Species and (%)	RM 70 %	BF 20 %	YB 10 %	%	SM, WS, WB (noted RS)			
Even-agec	X	Uneven-aged					Biomass	
Slope	5 to 17 %	Aspect	W/SE					
Stand Origin:	Old Field	Partial Cut	Burn		Unploughed	X		
	Windfall	Non Forest			Ploughed			
	Clear Cut	X	Unknown					
Stand Maturity Class:	Regeneration		Immature		Mature	X	Over-mature	X
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy	
Density:	SW 500	HW 1,000						
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy	
Regeneration:	1. Spp. BF	Height	3	2. Spp. RM	Height	5		
	3. Spp.	Height		4. Spp.	Height			

#### GROUND OBSERVATIONS

Ground Vegetation Species Present:	mountain maple in riparian zone, beaked hazelnut at edges, of rip zone, ground Hemlock, noted Mountain Ash (*snow cover)	
Ground Hemlock	Y / N	X
Invasive Species Present	Y / N	If yes then what species:
Site Indicators	Y / N	If yes then what species:

#### ENVIRONMENTAL OBSERVATIONS

Water Course	Bog	Pond	Stream	Seeps	Beaver Present	Y / N
Drainage:	Poor	Moderate	Good	X Excellent	Erosion Control Required	Y / N
Snag Trees:	Adequate	Inadequate	X			
Coarse Woody Material:	Adequate	Inadequate	X			
Dens		Nests (Raptors, songbirds, etc.)		snowshoe hare, racoon tracks, raven,		
Wildlife Observed	noted 10 (4" trout), coyote track on road, wildlife trail in riparian zone, (Bobcat tracks adj. prop.)					
Comments	BF feeder snags, no large diameter snags, noted large WS to SW, Skye Brook watershed group work					

#### 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:	stable, not rich site, older bark but moderate diameters with BF under, NO TREATMENT!			
	riparian zone, slope, fish habitat, leave natural with no treatment to protect stream, "NAPA" natural area on properties to south, road access to stream, RS pocket to northeast at top of slope, patch of old large diameter WS to north (future snags), BF 11cm and 11m height throughout WS, 15-20' wide main stream, West River Watershed (Skye Brook), keep natural to benefit wildlife/stream			

### STAND TALLY SHEET

CRUISER	L. Stevenson	STAND #	941310	PLANTATION #	2845701(RP)
PROPERTY #	225458	AREA	2.12 ha	Date	7 / 2 / 2023

D M Y

#### SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	RP	35	33	17	4				
2	RP	35	28	17	5				
3	RP	35	24	15	6				

#### STAND INFORMATION

Stand Basal Area	SW	M <sup>2</sup> /Ha	SWSL	M <sup>2</sup> /Ha	HW	M <sup>2</sup> /Ha	HWSL	M <sup>2</sup> /Ha
Species and (%)	RP 100 %	%	%	%			WS, PO, GB (BS)	
Even-aged	X	Uneven-aged					Biomass	
Slope	6 %	Aspect	Varies	S N S SE				
Stand Origin:	Old Field	X	Partial Cut	X	Burn		Unploughed	
	Windfall		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 750	HW						
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy	
Regeneration:	1. Spp. RM		Height	1.5	2. Spp. PC		Height	1.5
	3. Spp. WJ		Height	3	4. Spp. GB		Height	2

#### GROUND OBSERVATIONS

Ground Vegetation Species Present:	hazel noted (snow), blackberry N edge by road		
Ground Hemlock	Y / N	X	
Invasive Species Present	Y / N	If yes then what species:	
Site Indicators	Y / N	If yes then what species:	

#### ENVIRONMENTAL OBSERVATIONS

Water Course	Bog	Pond	Stream	Seeps	Beaver Present	Y / N
Drainage:	Poor	Moderate	Good	X	Excellent	X
Snag Trees:	Adequate		Inadequate	X		
Coarse Woody Material:	Adequate		Inadequate	X		
Dens		Nests (Raptors, songbirds, etc.)				
Wildlife Observed	coyote track, grouse on N edge					
Comments	open, regeneration coppice low, open crowns (not much nesting opportunities)					

#### 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:	LCR 20-30%, vigor moderate/poor, commercial thinned in past (good quality work), let mature, not much shoot moth damage noted, stem quality poor to fair due to knots, dense immature at edge (edge effect), a couple of WP noted, some Fiona windfall dry gulley (WS, Pincherry cover), some WS planted under in old extraction harvest trails			

### STAND TALLY SHEET

CRUISER	L. Stevenson	STAND #	94334	PLANTATION #	
PROPERTY #	225458	AREA	0.77 ha	Date	7 / 2 / 2023

D M Y

#### SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	WS	60	32	16	4				
2	WS	60	39	17	5				
3	WS	60	27	15	6				

#### STAND INFORMATION

Stand Basal Area	SW	M <sup>2</sup> /Ha	SWSL	M <sup>2</sup> /Ha	HW	M <sup>2</sup> /Ha	HWSL	M <sup>2</sup> /Ha
Species and (%)	WS80 %	BF10 %	%	%	%	AL, RM, WB, BF		
Even-aged	X	Uneven-aged					Biomass	
Slope	5 to 15 %	Aspect	N and S					
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed	
	Windfall	X	Non Forest				Ploughed	X
	Clear Cut		Unknown					
Stand Maturity Class:	Regeneration	X	Immature		Mature	X	Over-mature	X
Stand Stocking:	Understocked		Fully Stocked		Overstocked		Patchy	
Density:	SW	1000	HW	250				
Advanced Regeneration:	Understocked		Fully Stocked		Overstocked		Patchy	
Regeneration:	1. Spp.	BF	Height	3	2. Spp.	RM	Height	6
	3. Spp.		Height		4. Spp.		Height	

#### GROUND OBSERVATIONS

Ground Vegetation Species Present:	AL, chokecherry, mountain ash, raspberry, fireweed
	alternate leaved dogwood (elderberry to E, blackberry S) noted striped maple
Ground Hemlock	Y / N X
Invasive Species Present	Y / N X
Site Indicators	Y / N
	If yes then what species:
	If yes then what species:

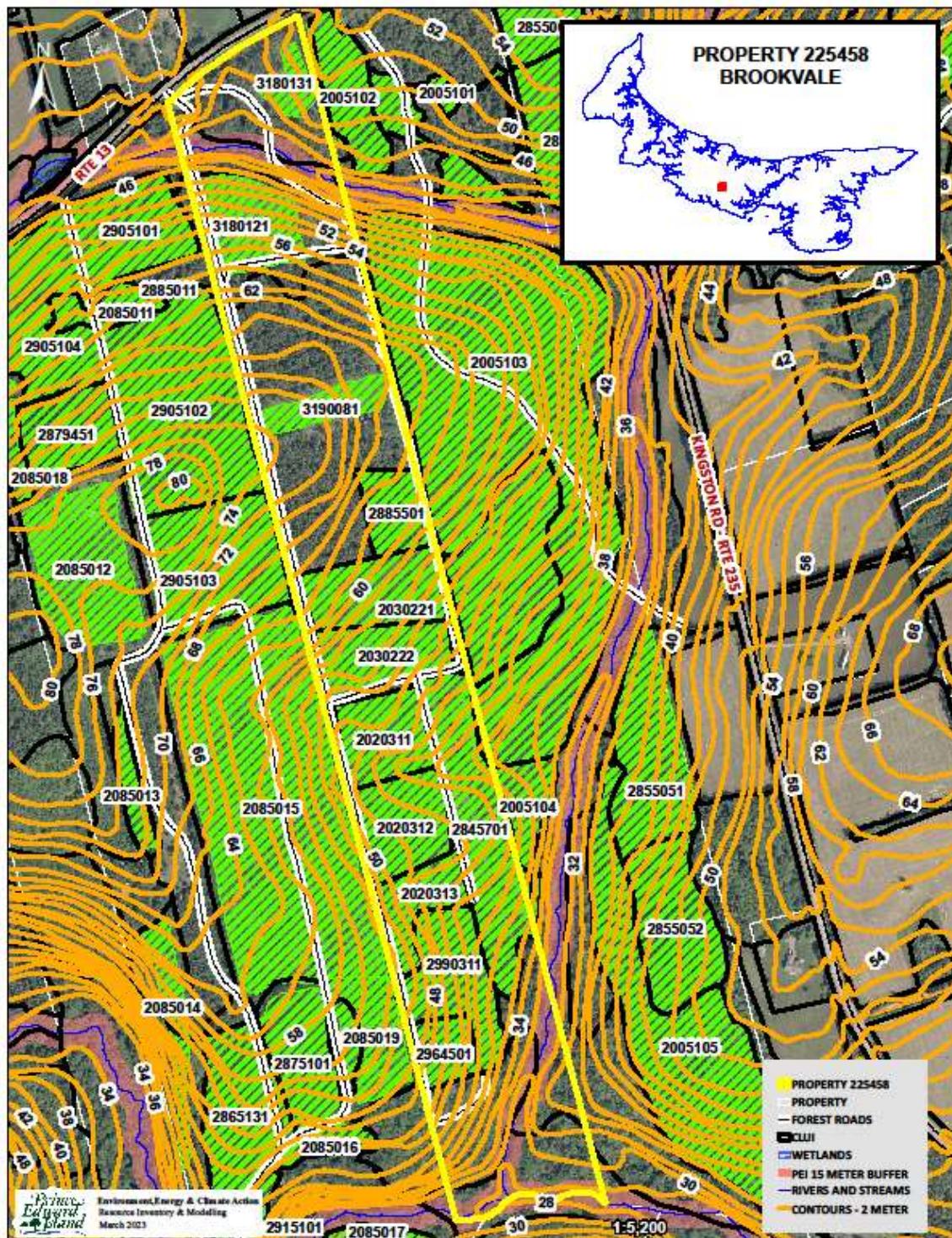
#### ENVIRONMENTAL OBSERVATIONS

Water Course	Bog	Pond	Stream	X	Seeps		Beaver Present		Y / N	X
Drainage:	Poor	X	Moderate	X	Good	X	Excellent	X	Erosion Control Required	Y / N
Snag Trees:	Adequate	X	Inadequate							
Coarse Woody Material:	Adequate		Inadequate	X						
Dens		Nests (Raptors, songbirds, etc.)								
Wildlife Observed	chickadee feeding on LT snag to N of bridge									
Comments	wild apple, beaked hazel, mountain ash, choke, WS snags (a couple), stream 3' width									

#### STAND PRESCRIPTION

No Treatment		Regeneration Cut		Crop Tree Release		Block Cut	
Shelterwood Cut		Selection Cut		Patch Cut		Strip Cut	
Commercial Thinning		Afforestation		Site Preparation	X	Salvage	
Pre-commercial Thinning		Reforestation	X	Riparian Zone Mgmt			
Pln. Maint.	Y / N	Stems/Ha					
Comments:	Alder flood plane, choke cherry at edges, old field WS, few BF, silt deposits, 3' stream width, 15m flood plain, some BF, need plant in riparian zone N for wildlife, noted BE, let residual WS decline naturally, old page wire on boundary, noted issue with runoff from agriculture field to north on drain gully from highway culvert (farm terrace/drainage project completed to address), hurricane Fiona windfall and salvage 2023 (extensive damage), reforest 2023, enrich plant riparian zone, diversity						

## Appendix G. Plantation Map with Contour Lines



## Appendix H. Work Completed

activity_number	treatment_code	amount_completed	treatment_date	treatment_description
	11	1	9/19/2018	Landing Construction
0	110	4.75	10/28/1999	Commercial Softwood< 5000 /Ha
0	110	1.57	1/4/2000	Commercial Softwood< 5000 /Ha
0	110	1.5	1/4/2000	Commercial Softwood< 5000 /Ha
0	110	1.72	1/4/2000	Commercial Softwood< 5000 /Ha
0	110	1.72	1/10/2001	Commercial Softwood< 5000 /Ha
0	110	4.8	1/10/2001	Commercial Softwood< 5000 /Ha
0	110	4.75	1/10/2001	Commercial Softwood< 5000 /Ha
	110	2.18	7/8/2014	Commercial Softwood< 5000 /Ha
3220541	12A	0.1	10/3/2022	Hiking Trail
	15	0.1	9/26/2022	Road right of way cutting
	15	0.1	6/16/2020	Road right of way cutting
	15	1.42	6/2/2016	Road right of way cutting
0	16	0	2/12/1999	Misc. Road Maintenance
0	16	2.98	7/21/2000	Misc. Road Maintenance
	16	1.55	5/27/2022	Misc. Road Maintenance
	16A	1.6	5/22/2020	Manual roadside trimming (brush saw)
2120509	16A	1.58	7/10/2012	Manual roadside trimming (brush saw)
0	16B	1.7	4/1/2005	Mechanical roadside trimming
0	16B	1.7	11/19/2008	Mechanical roadside trimming
	16B	1.58	7/8/2015	Mechanical roadside trimming
	16B	1.6	6/23/2020	Mechanical roadside trimming
3190525	16B	1.6	6/5/2019	Mechanical roadside trimming
3190520	16B	1.6	6/5/2019	Mechanical roadside trimming
3190521	16C	120	6/12/2019	Shale fill and leveling
3190526	16C	120	6/12/2019	Shale fill and leveling
	16C	70	3/1/2021	Shale fill and leveling
	17B	1	8/3/2018	Stream Crossing Maintenance
0	2	19	1/29/2002	Fill
0	2	29	11/16/1993	Fill
0	2	9	10/3/1995	Fill
2990311	23B	1.21	2/8/1999	Rhyme Disc Double Pass - Per Ha
2960000	29	1.6	1/15/1996	Raking Crawler Tractor-Root Rake:per Ha
2885501	30B	1003	8/2/1993	Manual Site Preparation per Site (Hawk)
2845701	30B	2580	8/2/1993	Manual Site Preparation per Site (Hawk)
	30B	164	10/10/2018	Manual Site Preparation per Site (Hawk)
	30B	60	10/10/2018	Manual Site Preparation per Site (Hawk)
3190081	30B	1073	6/25/2019	Manual Site Preparation per Site (Hawk)
3180121	30B	1514	6/25/2018	Manual Site Preparation per Site (Hawk)
	320	1	10/9/2018	Provincial Forest Sign Installation
1170579	400A	10	11/4/2016	Chainsaw Training
1160566	400A	11	11/18/2016	Chainsaw Training
1170582	400A	5	6/9/2017	Chainsaw Training
1170583	400A	10	11/10/2017	Chainsaw Training
1170586	400A	9	11/24/2017	Chainsaw Training
	400A	5	6/17/2016	Chainsaw Training
1160551	400A	6	6/24/2016	Chainsaw Training
1140651	400A	5	10/10/2014	Chainsaw Training
	400A	8	5/2/2014	Chainsaw Training
1130589	400A	5	9/13/2013	Chainsaw Training
1130590	400A	9	11/22/2013	Chainsaw Training
1130591	400A	11	11/8/2013	Chainsaw Training
	400A	1	6/26/2017	Chainsaw Training
	400A	11	11/9/2012	Chainsaw Training
	400A	10	11/23/2012	Chainsaw Training
	400A	10	11/9/2012	Chainsaw Training
0	43B	2.16	5/25/2005	Anchor Chain:Skidder:Primary: per Ha
0	4A	1	11/16/1993	Stream crossing 1;(0 - 1.9M2 - 9100kgs)
0	4A	0	11/16/1993	Stream crossing 1;(0 - 1.9M2 - 9100kgs)
2845701	50CF	1.6	8/2/1993	FILL PLANT AREA - CENTRAL
2885501	50CF	0.53	8/2/1993	FILL PLANT AREA - CENTRAL
2020313	51C	2232	5/25/2005	BLACK SPRUCE - CENTRAL

2885501	54CF	1003	8/2/1993	FILL PLANT BALSAM FIR - CENTRAL
2030322	55C	2989	5/25/2005	WHITE SPRUCE - CENTRAL
2845701	55CF	2580	8/2/1993	FILL PLANT WHITE SPRUCE - CENTRAL
3180121	55W	1449	6/25/2018	WHITE SPRUCE - WESTERN
3190081	55W	1008	6/25/2019	WHITE SPRUCE - WESTERN
	55WF	150	5/28/2021	FILL PLANT WHITE SPRUCE - WESTERN
	55WF	150	5/28/2021	FILL PLANT WHITE SPRUCE - WESTERN
2990311	56C	0	10/28/1999	WHITE PINE - CENTRAL
2020311	56C	3120	5/25/2005	WHITE PINE - CENTRAL
3190081	56EI	65	6/25/2019	INTERPLANT WHITE PINE - EASTERN
	56WF	40	5/28/2021	FILL PLANT WHITE PINE - WESTERN
	56WF	120	5/28/2021	FILL PLANT WHITE PINE - WESTERN
3180121	56WI	65	6/25/2018	INTERPLANT WHITE PINE - WESTERN
	58WI	45	10/10/2018	INTERPLANT YELLOW BIRCH - WESTERN
	58WI	90	10/10/2018	INTERPLANT YELLOW BIRCH - WESTERN
3190081	58WI	45	10/30/2019	INTERPLANT YELLOW BIRCH - WESTERN
	63W	30	9/28/2021	SUGAR MAPLE - WESTERN
	63WI	22	10/10/2018	INTERPLANT SUGAR MAPLE - WESTERN
	64W	30	9/28/2021	RED OAK - WESTERN
	64WI	15	10/10/2018	INTERPLANT RED OAK - WESTERN
	64WI	30	10/10/2018	INTERPLANT RED OAK - WESTERN
3190081	64WI	15	10/30/2019	INTERPLANT RED OAK - WESTERN
	65WI	22	10/10/2018	INTERPLANT WHITE ASH - WESTERN
2020312	67C	3055	5/25/2005	NORWAY SPRUCE - CENTRAL
2030321	67C	3596	5/25/2005	NORWAY SPRUCE - CENTRAL
	81	1.08	9/11/2014	Plantation Maintenance: Mowing
	81	0.98	9/19/2014	Plantation Maintenance: Mowing
	81	0.52	9/30/2014	Plantation Maintenance: Mowing
	81	0.72	9/27/2014	Plantation Maintenance: Mowing
	81	1.27	9/26/2014	Plantation Maintenance: Mowing
2873701	82B	0.25	10/4/1990	Herbicide: Broadcast : 1st Treatment
2885501	82B	0.25	10/4/1990	Herbicide: Broadcast : 1st Treatment
2875501	88A	0.53	9/3/2002	Class I : Manual : 0 -5000/Ha <6 Metres
3180121	88C	1.05	2/11/2022	Class 3 : Manual : 10001-15000/Ha <6 Metres
	90	0.58	6/7/2022	Selective Cut
1170540	90	3.53	6/26/2017	Selective Cut
	90	3.53	6/26/2017	Selective Cut
	91	1.64	10/25/2017	Strip Cut
	91	1	10/3/2014	Strip Cut
	91	0.72	10/3/2014	Strip Cut
	91	1	8/8/2014	Strip Cut
1170542	91	1.64	10/25/2017	Strip Cut
	91	0.6	6/12/2018	Strip Cut
	92	5.5	12/15/2022	Clearcut Block
0	92	2.16	9/17/2002	Clearcut Block
0	92	2.49	10/30/2001	Clearcut Block
2960000	92	1.6	1/19/1996	Clearcut Block
0	95	0	1/10/2001	Special Projects
0	95	0	1/10/2001	Special Projects
0	95	0	1/10/2001	Special Projects
0	95	18	6/20/2006	Special Projects
	95	1	9/26/2014	Special Projects
	95	30	10/5/2011	Special Projects
0	95	127.5	7/2/2004	Special Projects
	95	382	8/2/2018	Special Projects
	97	43.46	7/25/2018	Wood Extraction
1170593	97	8.02	6/26/2017	Wood Extraction
1170596	97	18.56	6/26/2017	Wood Extraction
1170598	97	33.24	2/15/2018	Wood Extraction
2120510	97	12.84	7/23/2012	Wood Extraction
	97	58.04	9/10/2014	Wood Extraction
	97	37.57	9/26/2014	Wood Extraction
	97	6.17	7/7/2016	Wood Extraction