

Date: July 2, 2024

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



Woodlot Management Plan

Property Number: 14969

Location: Central Kildare

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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 #14969 is located on the Route #12 in the community of Central Kildare, P.E.I., (Appendix A). The total area of this property is 24 hectares (60 acres) and the midpoint of the property is Latitude N 46.51508 decimal degrees, Longitude W -64.04905 decimal degrees.

Past Information

Local records and previous aerial photography show that approximately 45% of the property was used for agricultural purposes early in the 20th century. To better illustrate this 1935 and 1968 photography can be seen in Appendix B and Appendix C. The property is now all forested.

Property Information

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

Wetland and Watercourses

There is one small mapped stream in a stand 300987 adjacent to Route 12. This stream has potential drainages in the central portion of the property and south side of stand 301271. A 15 metre buffer zone is to be maintained along the stream.

Property Access

Access to this property is from Route 12 to the east portion of the property and McMillian Road for the west portion. The McMillian Road is not fully constructed to the property and wood will have to be forwarded to a place that haul trucks can access. There are no in-property roads and none are required. 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 this road usable. At this point, no road construction is prescribed.

Property Boundaries

This property is bounded on the east by Route 12, west by McMillian Road, North is an Island Nature Trust property and the south boundary is private land.

Fire Protection

This property is located within the jurisdiction of the Alberton Fire Department. The amount of personnel and equipment used to fight any forest fires will depend greatly upon the size and severity of the fire. Protection of our woodland from forest fire is the responsibility of the Forests, Fish and Wildlife Division and our local community fire brigades. In the Western District, there are four-wheel drive forestry fire trucks housed at the Wellington and West Point Fire Departments. These heavy-duty trucks

are available to assist the local fire department responsible for this area. Additional forestry fire trucks, off road tracked vehicles, portable pumps and specialized forest fire suppression equipment are available if needed. A stream at the north boundary next to route 12 would be a suitable site to setup a portable fire pump system.

Planting and Silviculture

There are not any plantations on the property. It is recommended that any trees planted on the property be assessed at regular intervals. These assessments will determine if the planted trees require manual maintenance or fill planting as specified in the ECOSYSTEM-BASED FOREST MANAGEMENT STANDARDS MANUAL (“Eco Manual”). A list of all silviculture treatments completed on the property from 1991 to present is shown in Appendix H.

Proposed Treatments

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

www.princeedwardisland.ca/sites/default/files/publications/2018_eco_manual_technical_version_-

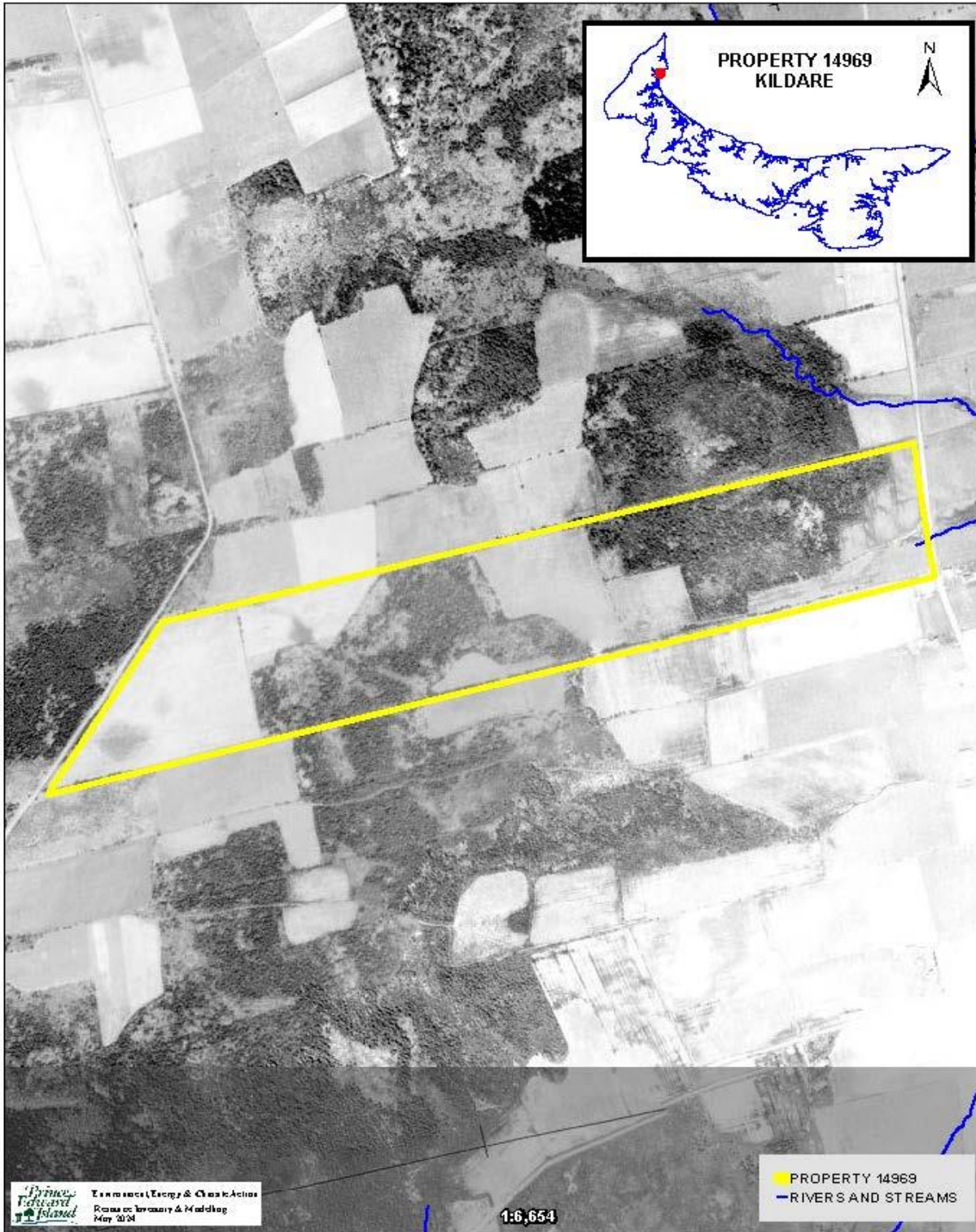
[_final.pdf](#) . Any additional information may be obtained by contacting a Provincial Forest representative at the District Forestry Office in Wellington.

Table 1. Proposed treatment summary.

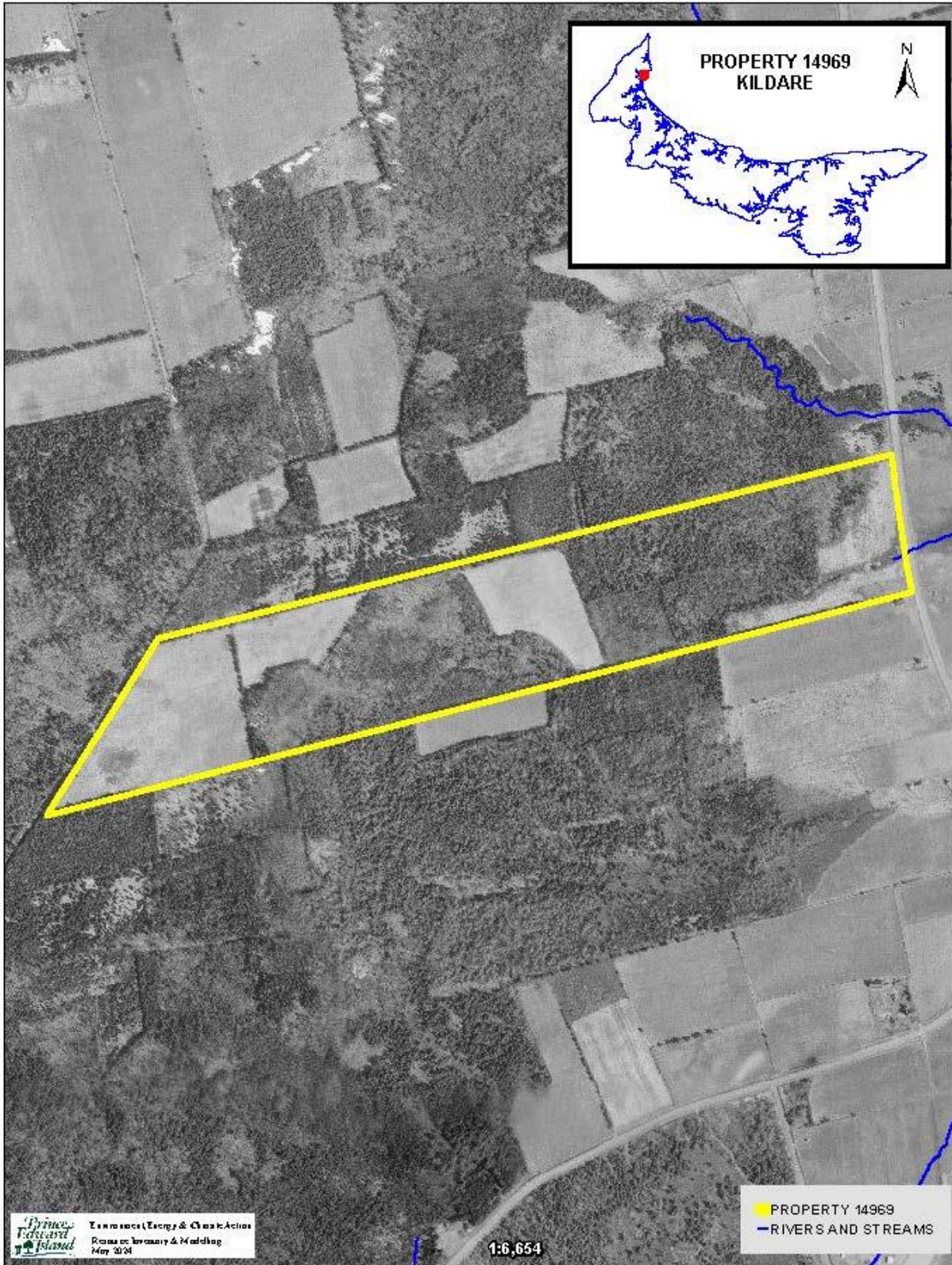
Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	2018 Eco- Manual Reference	Comments	Goals
ST 300730	Block Harvest	2024	1.5 Ha	30 pg	Old field WS and LA blowdown salvage. Standing timber is expected to come down next wind event. Protect regen in understory if possible.	Salvage blowdown and declining standing timber.
	Manual Site Preparation	2025	1.5 Ha	14 pg	Prepare microsites for planting.	Create plantable sites to increase plantation success.
	Full Plant	2025	1.5 Ha	16 pg	Plant species that are ecological suited for the site. For example WS, RS, LA, YB, SM. Planting will extend slightly past boundary in some areas into ST #300993.	Reforest the stand.
	Manual Plantation Maintenance	2028	1.5 Ha	17 pg	Eliminate competing unwanted vegetation.	Increase growth rate and success of plantation.
ST 300993	Block Harvest	2025	0.5 Ha	30 pg	Block harvest from 300731 expands slightly into stand to capture blowdown and mortality.	Salvage blow down and overmature WS and LA.
	Manual Site Preparation	2025	0.5 Ha	14 pg	Prepare microsites for planting.	Create plantable sites to increase plantation success.
	Full Plant	2025	0.5 Ha	16 pg	Plant species that are ecological suited for the site. For example WS, RS, LA, YB, SM.	Reforest the stand.
	Manual Plantation Maintenance	2028	0.5 Ha	17 pg	Eliminate competing unwanted vegetation.	Increase growth rate and success of plantation.
ST 300731	Block Harvest	2024	5.62 Ha	30 pg	WS and LA Blowdown from Fiona. Retain Tolerant Hardwoods. Harvest will move just outside of stand and into 300993 to capture blowdown beyond stand boundary.	Salvage blow down and overmature WS and LA.
	Manual Site Preparation	2025	5.62 Ha	14 pg	Prepare microsites for planting.	Create plantable sites to increase plantation success.
	Full Plant	2025	5.62 Ha	16 pg	Plant species that are ecological suited for the site. For example WS, RS, LA, YB, SM.	Reforest the stand.
	Manual Plantation Maintenance	2028	5.62 Ha	17pg	Eliminate competing unwanted vegetation.	Increase growth rate and success of plantation.

Appendices

Appendix B. 1935 Aerial Photography



Appendix C. 1968 Aerial Photography



Appendix D. 2020 Corporate Land Use Inventory

FIELDID	COVER1	PER1	COVER2	PER2	COVER3	PER3	COVER4	PER4	COVER5	PER5	HEIGHT	WOODSTOCK	HECTARES
0300730	LA	4.00	WS	3.00	WB	1.00	PO	1.00	RM	1.00	17.00	SWMX	3.02
0300731	WS	5.00	RM	2.00	LA	2.00	PO	1.00		0.00	16.00	SPLA	5.20
0300737	WB	3.00	RM	3.00	WS	2.00	BF	1.00	LA	1.00	16.00	IHSW	1.15
0301271	RM	5.00	PO	2.00	WB	2.00	WS	1.00		0.00	14.00	IHMX	6.73
0300987	RM	3.00	PO	2.00	PC	2.00	AL	2.00	WB	1.00	4.00	IHMX	1.03
0300993	RM	4.00	BF	2.00	WB	2.00	PO	1.00	WS	1.00	14.00	IHMX	3.26
0300998	RM	4.00	PO	2.00	WB	2.00	WS	1.00	BF	1.00	14.00	IHMX	3.80
0301038	RM	4.00	PO	2.00	WS	2.00	BF	1.00	WB	1.00	18.00	IHMX	0.07
0301131	RM	5.00	WS	3.00	BF	1.00	WB	1.00		0.00	3.00	IHSW	0.04
0301152	RM	6.00	WS	2.00	GB	1.00	BF	1.00		0.00	3.00	IHMX	0.15

Appendix E. Forest Inventory Codes

EXPLANATION OF FOREST CODES; SPECIES

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

PERCENT

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

CROWN CLOSURE

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

ORIGIN AND HISTORY

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

SAMPLE DESCRIPTIONS

FOREST STAND DESCRIPTIONS

75401 – Stand No.

SM5RM4 – Sugar Maple 50%, Red Maple40%

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 F. Stand Tally Sheets from on the Ground Assessment

STAND TALLY SHEET											
CRUISER	M. Buchanan			STAND #	301271			PLANTATION #			
PROPERTY #	14969			AREA	7.07 ha			Date	1 /	5 /	24
									D	M	Y
SAMPLE TREE INFORMATION											
Tree#	SPP.	AGE	D.B.H.	Height	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%
1	WB	35	20	13	40	4					
2						5					
3						6					
STAND INFORMATION											
Stand Basal Area	SW		M ² /Ha	SWSL		M ² /Ha	HW		M ² /Ha	HWSL	M ² /Ha
Species and (%)	RM 5 %	PO 2 %	WB 2 %				BF, WS 10%				
Even-aged		Uneven-aged	X							Biomass	
Slope	0 %	Aspect	0								
Stand Origin:	Old Field		Partial Cut	X		Burn		Unploughed	X		
	Windfall		Non Forest					Ploughed			
	Clear Cut		Unknown								
Stand Maturity Class:	Regeneration			Immature		Mature		Over-mature	X		
Stand Stocking:	Understocked			Fully Stocked	X	Overstocked		Patchy			
Density:	SW	200	HW	1,600							
Advanced Regeneration:	Understocked			Fully Stocked	X	Overstocked		Patchy			
Regeneration:	1. Spp.	WA	Height	3m		2. Spp.	WA	Height	1m		
	3. Spp.		Height			4. Spp.		Height			
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	Marsh Marigold , Wild Raisen, Bunchberry, Sensitive fern, Lambkill.										
Ground Hemlock	Y / N	X									
Invasive Species Present	Y / N	X				If yes then what species:					
Site Indicators	Y / N	X				If yes then what species:					
ENVIRONMENTAL OBSERVATIONS											
Water Course	N,	Bog	N	Pond	N	Stream	N	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	X	Inadequate								
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	X	Stems/Ha								
Comments:	Immature hardwood stand with patchy areas of blowdown. WA establishing in the understory with dense regen in patches aprox 1-4 m tall. The overstory growth is mainly coppice hardwood clumps from previous silviculture work. Some cedar regen present on wetter microsites. Site conditions are wet in most areas unfit for heavy machinery. Stand density is low leaving adequate growing space for new growth. Past forwarder trail or forest road visible. Revisit site in 3-5 years to see how ash is establishing. Could be a good site to monitor for EAB moving forward.										

STAND TALLY SHEET																		
CRUISER	M. Buchanan		STAND #	300731		PLANTATION #												
PROPERTY #	14969		AREA	6 ha		Date	1 /	5 /	24									
							D	M	Y									
SAMPLE TREE INFORMATION																		
Tree#	SPP.	AGE	D.B.H.	Height	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%							
1	WS	35	14.3	10	10	4												
2	WS	35	26.9	12.5	20	5												
3						6												
STAND INFORMATION																		
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha							
Species and (%)	WS 6	%	LA 2	%	RM 10	%	WB, GB, PO 10%											
Even-aged	X		Uneven-aged															
Slope	0 %		Aspect		0													
Stand Origin:	Old Field	X		Partial Cut			Burn			Unploughed								
	Windfall	X		Non Forest						Ploughed	X							
	Clear Cut			Unknown														
Stand Maturity Class:	Regeneration				Immature			Mature	X		Over-mature							
Stand Stocking:	Understocked				Fully Stocked	X		Overstocked			Patchy							
Density:	SW	1,800		HW	800													
Advanced Regeneration:	Understocked				Fully Stocked			Overstocked			Patchy	X						
Regeneration:	1. Spp.	BF		Height	0.3m		2. Spp.	BF		Height	1m							
	3. Spp.	BF		Height	0.2m		4. Spp.	BF		Height	0.3m							
GROUND OBSERVATIONS																		
Ground Vegetation Species Present:	Wild Raisin, Haircap moss, Sphagnum moss, Common speedwell																	
Ground Hemlock	Y / N		x															
Invasive Species Present	Y / N		X		If yes then what species:													
Site Indicators	Y / N		X		If yes then what species:													
ENVIRONMENTAL OBSERVATIONS																		
Water Course	N		Bog	N		Pond	N		Stream	N		Seeps	N		Beaver Present	N		Y / N
Drainage:	Poor		Moderate		Good		X		Excellent				Erosion Control Required		N		Y / N	
Snag Trees:	Adequate		X		Inadequate													
Coarse Woody Material:	Adequate		X		Inadequate													
Dens	N		Nests (Raptors, songbirds, etc.)									N						
Wildlife Observed	Woodpecker nest.																	
Comments																		
STAND PRESCRIPTION																		
No Treatment			Regeneration Cut				Crop Tree Release				Block Cut		X					
Shelterwood Cut			Selection Cut				Patch Cut				Strip Cut							
Commercial Thinning			Afforestation				Site Preparation											
Pre-commercial Thinning			Reforestation		X		Riparian Zone Mgmt											
Pln. Maint.	X		Y / N		Stems/Ha													
Comments:	<p>Old field WS stand windfall approximately 50%. High level of snag and CWD content. Standing LA is poor quality recommend harvest for salvage before next windfall (WS, LA). The harvest should take place on the North boundary of the stand and areas of decline/mortality moving south. Very little ground Veg as density doesn't allow for much sunlight to forest floor. SW portion of this stand consists of infected LA with high % of mortality with little value, however there is a high level of regeneration in the understory including some natural RS that will eventually replace the forest cover leaving the LA for CWD and snags for wildlife. The northern boundary consists mainly of WS which moves south into the eastern portion of the stand. Retain areas with new growth and hardwood clumps.</p>																	

STAND TALLY SHEET											
CRUISER	M. Buchanan		STAND #	300993		PLANTATION #					
PROPERTY #	14969		AREA	3.26 ha		Date	1 /	5 /	24		
							D	M	Y		
SAMPLE TREE INFORMATION											
Tree#	SPP.	AGE	D.B.H.	Height	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%
1	BS	30	17.8	13	60	4					
2	BF	25	15	12	60	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 (%)	RM 4	%	BF 2	%	WB 2	%	PO 10	%	BS 10%		
Even-aged	X		Uneven-aged								
Slope	0 %		Aspect		0						
Stand Origin:	Old Field	X		Partial Cut	X		Burn			Unploughed	X
	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	1,200		HW	2,000						
Advanced Regeneration:	Understocked				Fully Stocked		X		Overstocked		Patchy
	X										
Regeneration:	1. Spp. BS		Height		1m		2. Spp. BF		Height		1m
	3. Spp.		Height				4. Spp.		Height		
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	Beaked hazel, Red osier, Bunchberry, Ground hemlock, Ground cedar, Dwarf Raspberry										
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		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		Y / N		Stems/Ha						
Shelterwood Cut			Selection Cut				Patch Cut				Strip Cut
Commercial Thinning			Afforestation				Site Preparation				
Pre-commercial Thinning			Reforestation		X		Riparian Zone Mgmt				
Pln. Maint.	X		Y / N		Stems/Ha						
Comments:	Parts of the stand is old field with moderate drainage however most of the site is wet showing forest cover in past photo imagery. Trees are growing well on higher microsites. Block harvest from neighbouring stand 300731 will cross into stand to capture blowdown and stand decline. Consider a commercial thin on wet areas with clumps of BS at high density, should be thinned by hand as site is to wet for heavy equipment as well as thin coppice growth of HW from previous cuts that caused poor tree form however at this time product is not of commercial value check when updating management plan in the future.										

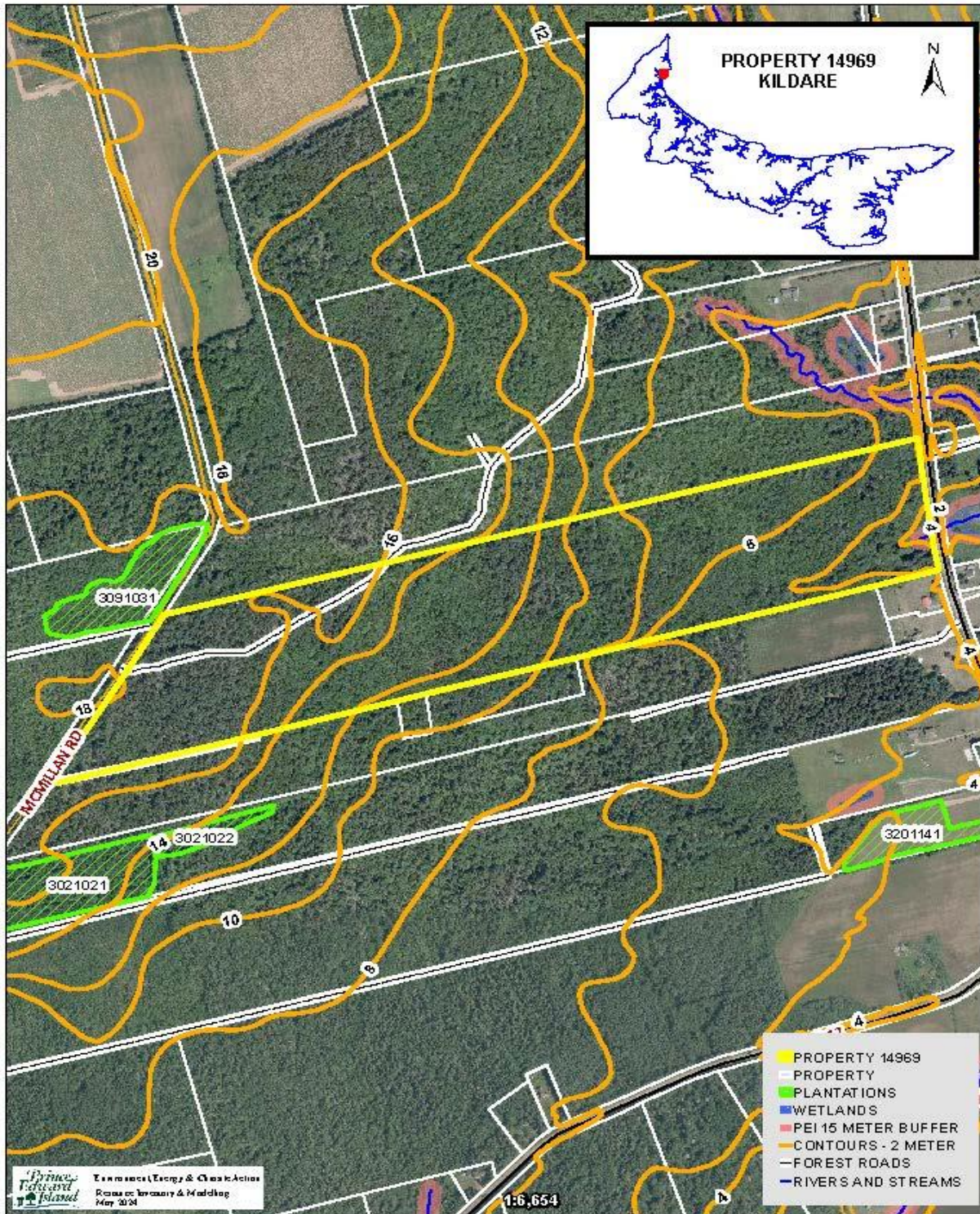
STAND TALLY SHEET												
CRUISER	M. Buchanan			STAND #	300730			PLANTATION #				
PROPERTY #	14969			AREA	1.5 ha		Date	1 /	5 /	24		
								D	M	Y		
SAMPLE TREE INFORMATION												
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	
1	WS	50	21.9	15	70	4						
2	LA	50	18.1	15	25	5						
3						6						
STAND INFORMATION												
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha	
Species and (%)	LA 4	%	WS 3	%	WB 10	%	PO 10	%	RM 10%			
Even-aged	X		Uneven-aged						Biomass			
Slope	0 %		Aspect		0							
Stand Origin:	Old Field	X		Partial Cut			Burn			Unploughed		
	Windfall	X		Non Forest					Ploughed X			
	Clear Cut			Unknown								
Stand Maturity Class:	Regeneration				Immature			Mature	X		Over-mature	
Stand Stocking:	Understocked				Fully Stocked	X		Overstocked			Patchy	
Density:	SW	1,600		HW	800							
Advanced Regeneration:	Understocked				Fully Stocked			Overstocked			Patchy X	
Regeneration:	1. Spp.	WS		Height	1m		2. Spp.	BF		Height	1m	
	3. Spp.			Height			4. Spp.			Height		
GROUND OBSERVATIONS												
Ground Vegetation Species Present:	Beaked hazel, Red osier, Bunchberry, Ground hemlock.											
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		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					
Pre-commercial Thinning			Reforestation		X		Riparian Zone Mgmt					
Pln. Maint.	X		Y / N				Stems/Ha					
Comments:	Old field WS with LA content. Stand is in decline high percentage of windfall with more expected next wind event. There is some new growth coming up in the understory ribbon to protect as much as possible during harvest prep. Harvest, Prep microsites, and plant WS, RS, BS, LA and mix in some hardwoods if available.											

STAND TALLY SHEET											
CRUISER	M. Buchanan			STAND #	300737			PLANTATION #			
PROPERTY #	14969			AREA	1.5 ha		Date	1 /	5 /	24	
								D	M	Y	
SAMPLE TREE INFORMATION											
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%
1	PO	20	14.2	12	60	4					
2	RM	20	8.2	8	80	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 (%)	RM 3	%	LA 2	%	WB 2	%	WS 2	%	WA,BF 10%		
Even-aged	Uneven-aged		X							Biomass	
Slope	0 %	Aspect	0								
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	Patchy X		
Density:	SW	400	HW	1,400							
Advanced Regeneration:	Understocked				Fully Stocked			Overstocked	Patchy X		
Regeneration:	1. Spp.	RM	Height	2m		2. Spp.	BF	Height	0.5m		
	3. Spp.		Height			4. Spp.		Height			
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	Alder, Raspberry, Beaked hazel, Red osier , Bunchberry										
Ground Hemlock	X	Y / N									
Invasive Species Present			Y / N	X		If yes then what species:					
Site Indicators			Y / N	N		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			X	Regeneration Cut			Crop Tree Release			Block Cut	
Shelterwood Cut				Selection Cut			Patch Cut			Strip Cut	
Commercial Thinning				Afforestation			Site Preparation				
Pre-commercial Thinning				Reforestation			Riparian Zone Mgmt				
Pln. Maint.	Y / N	X	Stems/Ha								
Comments:	Patchy Mixed wood stand moving into private land. High % of CWD. Young hardwood stems with older LA and WS, Alder thickets throughout the understory not allowing for much vegetation growth. Multi cohort stand with low density Softwood in the overstory and higher density Hardwoods establishing in the understory.										

STAND TALLY SHEET																		
CRUISER	M. Buchanan			STAND #	300998			PLANTATION #										
PROPERTY #	14969			AREA	3.88 ha		Date	1 /	5 /	24								
								D	M	Y								
SAMPLE TREE INFORMATION																		
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%							
1	WB	30	18.7	14	30	4												
2	WA	30	21.8	14	40	5												
3						6												
STAND INFORMATION																		
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha							
Species and (%)	RM 4 %	WB 2 %	PO 2 %	WS 10 %	CE,WA,BF,BS 10%													
Even-aged	X		Uneven-aged															
Slope	0 %		Aspect	0														
Stand Origin:	Old Field	X		Partial Cut			Burn			Unploughed	X							
	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	600		HW	1,400													
Advanced Regeneration:	Understocked				Fully Stocked	X		Overstocked			Patchy							
Regeneration:	1. Spp. RM		Height		2m		2. Spp. BF		Height		1.5m							
	3. Spp.		Height				4. Spp.		Height									
GROUND OBSERVATIONS																		
Ground Vegetation Species Present:	Ground cedar & hemlock, water buttercup, Wild raisin, Sensitive fern																	
Ground Hemlock	X		Y / N															
Invasive Species Present			Y / N		X		If yes then what species:											
Site Indicators	X		Y / N		N		If yes then what species: Water buttercup											
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				Inadequate	X												
Coarse Woody Material:	Adequate		X		Inadequate													
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		X		Stems/Ha													
Comments:																		
	Very wet hardwood stand. With some wet site indicators including Sensitive fern & Swamp marigold. Could be some vernal pools for wildlife hard to identify what is considered a vernal pool. WA growing strong in wet areas with little competition from other species. No treatment, site is to wet for heavy equipment, advise to let nature take its course and re-evaluate in the next management plan. Might be considered wooded wetland.																	

STAND TALLY SHEET											
CRUISER	M. Buchanan			STAND #	300987			PLANTATION #			
PROPERTY #	14969			AREA	1.2 ha		Date	1 /	5 /	24	
								D	M	Y	
SAMPLE TREE INFORMATION											
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%
1	RM	30	19.2	11.5	80	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 (%)	AL 6 %	RM 3 %					WA, PO, BF, WS 10%				
Even-aged x	Uneven-aged								Biomass		
Slope	0 %	Aspect	0								
Stand Origin:	Old Field X	Partial Cut			Burn			Unploughed X			
	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	100	HW	200							
Advanced Regeneration:	Understocked				Fully Stocked			Overstocked			Patchy X
Regeneration:	1. Spp.	PC	Height 2m		2. Spp.	PO	Height 1.5m				
	3. Spp.	PC	Height 1m		4. Spp.		Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	Wild Raisin, Sensitive Fern, Raspberry, Beaked Hazel										
Ground Hemlock	Y / N		X								
Invasive Species Present	Y / N		X		If yes then what species:						
Site Indicators	Y	Y / N			If yes then what species: Sensitive Fern						
ENVIRONMENTAL OBSERVATIONS											
Water Course	Y	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		X		Inadequate						
Dens	N	Nests (Raptors, songbirds, etc.)		N							
Wildlife Observed	None										
Comments											
STAND PRESCRIPTION											
No Treatment	X		Regeneration Cut		Crop Tree Release		Block Cut				
Shelterwood Cut			Selection Cut		Patch Cut		Strip Cut				
Commercial Thinning			Afforestation		Site Preparation						
Pre-commercial Thinning			Reforestation		Riparian Zone Mgmt						
Pln. Maint.	Y / N	X	Stems/Ha								
Comments:	This is an alder thicket located at the eastern boundary of the property next to route 12. Low density crop trees non merchantable. Not economically feasible to do silviculture as site is to wet to establish crop tree success.										

Appendix G. Plantation Map with Contour Lines



Appendix H. Work Completed

Treatment Code	Amount Completed	Treatment Date	Treatment Description
302	0.47	8/28/1990	Class 2 PCT Softwood> 6 M 5001-10000