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. 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_-

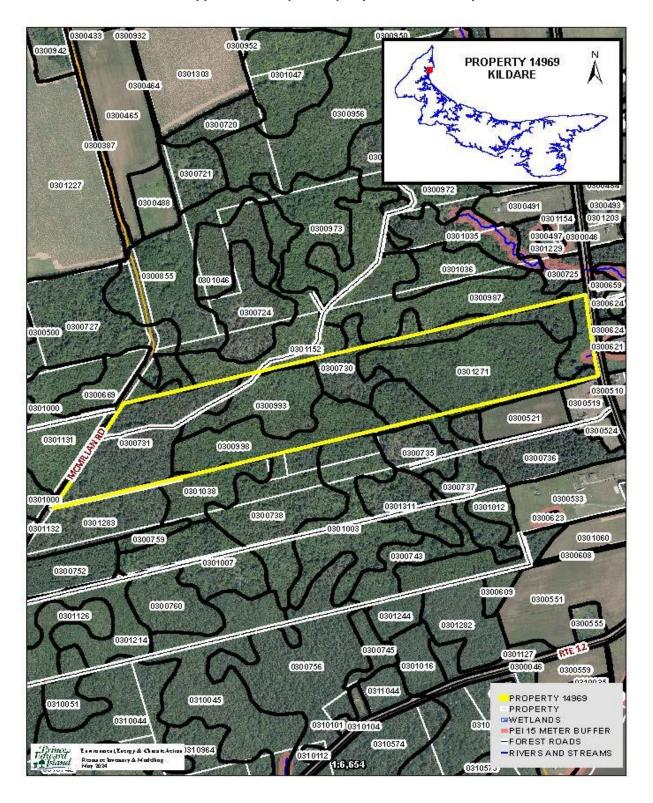
<u>final.pdf</u> . Any additional information may be obtained by contacting a Provincial Forest representative at the District Forestry Office in Wellington.

Table 1. Proposed treatment summary.

Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	2018 Eco- Manual Reference	Comments	Goals
	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.
ST 300730	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.
	Block Harvest	2025	0.5 Ha	30 pg	Block harvest from 300731 expands slighlty into stand to capture blowdown and mortality.	Salavage 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.
ST 300993	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.
	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.	Salavage blow down and overmature WS and LA.
ST 300731	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

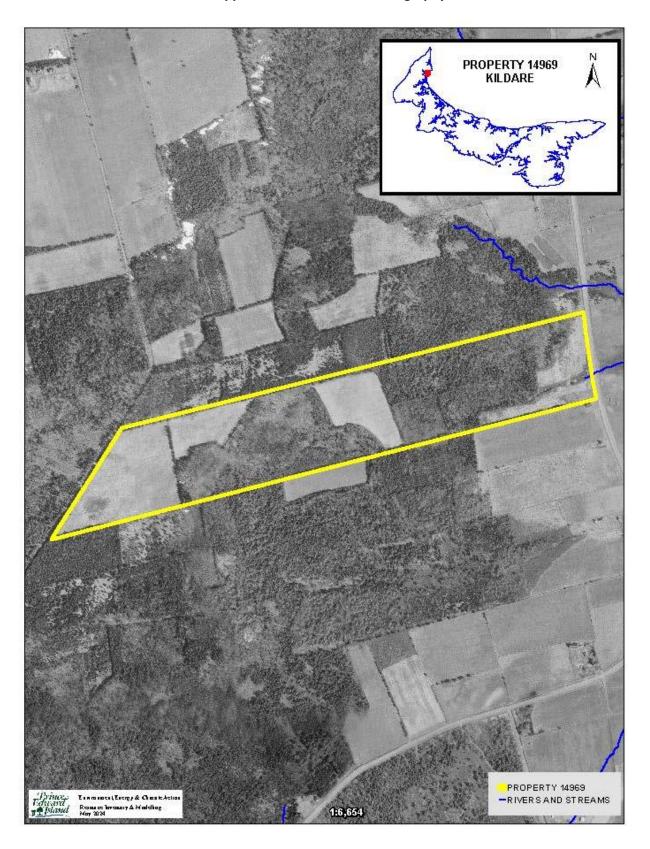
Appendix A. Map of Property with Locator Map



Appendix B. 1935 Aerial Photography



Appendix C. 1968 Aerial Photography



Appendix D. 2020 Corporate Land Use Inventory

FIELDID	COVER1	PER1	COVER2	PER2	COVER3	PER3	COVER4	PER4	COVER5	PER5	HEIGHT	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	РО	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	РО	2.00	WB	2.00	WS	1.00	BF	1.00	14.00	IHMX	3.80
0301038	RM	4.00	РО	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	${f JL}$	Japanese Larch	WB	White Birch
BF	Balsam Fir	\mathbf{EL}	European Larch	PO	Poplar
HE	Hemlock	NS	Norway Spruce	\mathbf{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	\mathbf{EM}	Elm
CE	Cedar	AP	Austrian Pine	GB	Gray Birch
LA	Larch	YB	Yellow Birch	\mathbf{AL}	Alders
BS	Black Spruce	\mathbf{SM}	Sugar Maple	LI	Linden
RS	Red Spruce	\mathbf{BE}	Beech		

PERC	<u>ENT</u>	CRO	WN CLOSURE				
0	1 - 9%	A	91 % - 100%				
1	10 - 19%	В	81 % - 90 %				
2	20 - 29 %	\mathbf{C}	71 % - 80 %				
3	30 – 39 %	D	61 % - 70 %		ORIGIN ANI	D HISTO	<u>RY</u>
4	40 - 49 %	\mathbf{E}	51 % - 60 %	BR	Burn	DI	Disease-Insect
5	50 - 59 %	F	41 % - 50 %	WF	Wind Fall	OF	Old Field
6	60 - 69 %	\mathbf{G}	31 % - 40 %	PC	Partial Cut	PN	Plantation
7	70 - 79 %	H	21 % - 30 %	\mathbf{CC}	Clear Cut	HR	Hedgerow
8	80 - 89 %	I	11 % - 20 %	\mathbf{TH}	Thinning	EP	Excavation Pit
9	90 - 100 %	J	0 % - 10 %		-		

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 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

BO	Bog	AL	Alders		
\mathbf{CL}	Clear Land	\mathbf{FL}	Flowerage	FORE	ST GROUND CONDITION
SO	Swamps - Open	\mathbf{AG}	Agricultural Land	SW	Wet – Swampy
EP	Excavation Pit	SD	Sand Dune	ST	Steep
PL	Power Line	UR	Urban	$\mathbf{S}\mathbf{Y}$	Sandy
C	Cemetery	$\mathbf{W}\mathbf{W}$	Water		

Appendix F. Stand Tally Sheets from on the Ground Assessment

								9	STAN	ID TA	LLY SH	EET									
CRL	JISER		M.	Bucl	nana	n	ST	ANI	D#			30	1271	PL	ANTAT	ION	#_				
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							S	AM	PLE 1	TREE I	NFOR	MATI	ON								
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3											6										
														_						Ш	
						2.			_		ORMA				2.					2.	
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	s and (%	-	RM 5				WB 2	- %	<u> </u>	%		BF,	WS 1	0%	_						
Even-a		_	Uneve														Bion	iass			
Slope			Aspect	_	0									١.							
Stand	Stand Origin: Old Field																				
	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																				
	Density: SW 200 HW 1,600 Advanced Regeneration: Understocked Fully Stocked X Overstocked Patchy																				
	Density: SW 200 HW 1,600 Fully Stocked X Overstocked Patchy																				
Regen	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																				
	egeneration: 1. Spp. WA Height 3m 2. Spp. WA Height 1m 3. Spp. Height 4. Spp. Height																				
	dvanced Regeneration: Understocked Fully Stocked X Overstocked Patchy egeneration: 1. Spp. WA Height 3m 2. Spp. WA Height 1m																				
Groun	d Veget	atior	n Speci	es Pr	esen	t:	Mars	h Ma	arigo	ld , W	ild Rais	en, B	unch	berr	y, Sens	itive	e fern,	Lam	ıbkill.		
Groun	d Hemlo	ck	Υ/	N N	Х																
Invasiv	e Speci	es Pr	resent		Y	/ N	Х	If ye	s the	en wh	at spec	ies:									
Site In	dicators		Υ/	N	Х			If ye	s the	en wh	at spec	ies:						,			
							EN	VIR	ONM	ENTA	L OBSE	RVAT	IONS								
Water	Course	N,		Bog	N	Po	nd N		St	ream	N	Seep	os N			Ве	eaver l	res	ent N	Υ/	N
Draina	ge: Po	or	X	Мо	derat	te	G	ood		Ex	cellent			Е	rosion	Con	trol Re	equi	red N	Υ/	N
Snag T	rees:	Ade	equate			Inade	equate	X													
Coarse	Woody	Ма	terial:		Adeq	uate	Х	li	nade	quate											
Dens	N	- 1	Nests (Rapt	ors, s	songb	oirds, e	etc.)	N												
Wildlif	e Obser	ved	Nor	ne O	bserv	ed 'ed															
Comm	ents																				
								9	STAN	D PRE	SCRIPT	ION									
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	rwood C	ut					Select					+	Patch			Ī			Strip	-	
	ercial Tl	_	ing			_	Affore					-			ration						
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Pln. M			Y/N	-	St	ems/															
Comm		_		-	_			h pa	tchy	areas	of blo	wdow	vn. W	A es	tablish	ing	in the	und	erstor	y wi	th
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		fror	n previ	ious	silvic	ulture	e worl	k. So	me c	edarı	regen p	reser	nt on	wet	ter mic	rosi	tes. S	ite c	onditi	ons a	are
		wet	in mo	st ar	eas u	nfit fo	or hea	vy n	nachi	inery.	Stand	densi	ty is l	ow	leaving	ade	quate	gro	wing s	расе	:
		for	new gr	owth	n. Pas	st for	warde	r tra	il or	forest	road v	isible	e. Rev	isit s	site in 3	3-5 y	ears t	o se	e how	ash	is
		esta	ablishir	ng. C	ould	be a g	good s	ite t	o mo	onitor	for EAI	B mo	ving f	orw	ard.						

									STA	AND T	Άl	LY SH	EET									
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																	D		M	Υ		
												NFORM										
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1	W	_	35			4.3	 	10	-	10		4										
3	W	/5	35			6.9	-	12.5	-	20		5 6										
3							-		+	1 1		0			_							
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Stand	Basal	Area	SW			M ² /H	а	SWS	_			/Ha	_	IW		M ² /Ha	a H	WSL		M	² /H	a
Specie	s and	(%)	WS 6	%	LA 2			10 %	á	9			VB,	GB, P	0 1						İ	
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Slope		0 %	Aspect		0																	
Stand			ld Field	_		Par	tial	Cut		Bur	rn			- 1	Jnp	loughed						
		V	Vindfall	Χ		Non	For	est							P	loughed	Х					
		CI	lear Cut			Ur	kno	wn														
Stand	Matur	rity Cl	lass:		Rege	enera	tion			lmma	atı	ıre		Ma	atur	e X	0	ver-	matı	ure		
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Advan	ced Re	egene	ration:		Ū	Inders	tocl	ked		Fully	St	ocked		(Over	stocked		P	atch	ıy	Х	
Regen	eratio	n:	1. S	pp.	BF			Heigh	t 0.	.3m		2	. S	рр. В	F		Heigh	t 1n	n			
			3. S	pp.	BF			Heigh	t 0.	.2m		4	. S	рр. В	F		Heigh	t 0.3	3m			
		3. Spp. BF Height 0.2m 4. Spp. BF Height 0.3m GROUND OBSERVATIONS																				
Groun	eration: 1. Spp. BF Height 0.3m 2. Spp. BF Height 1m 3. Spp. BF Height 0.2m 4. Spp. BF Height 0.3m																					
									,			,	-			,		-				
Groun	d Hen	nlock	Υ/	N N	x																	
			resent		_	Y/N	Х	If y	es t	hen w	ha	ıt speci	es:									
Site In	-		Υ/	N	Х							it speci										
														TION	C							
Water	Courc	o N		Bog	N	D	ond		KUN	Stream		OBSEF		eps N			Pos	vor [)roc	ent N	V	/ N
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Wildlif		erved				er nes		3, Ctc.	.,													
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Comm				-		+	-	orest			-	v				paration			-			
			hinning	-		`*		forest	atio	n	-	Х		кіра	rian	Zone M	gmt		-			
Pln. M			Y/N	VV/C	_	Stems		Lanro	vim	atoly I	EΩ	0/ ⊔iαk	, lo	ol of	cna	g and CV	ND co	nton	+ C+	andin	α Ι Δ	ic
Comm	ents:	_						•		•		•				ll (WS, L					_	
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1		BS		30			17.8		13	_		60		4						+							_
2		BF		25			15		12			60		5						-							_
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Speci	es a	and (%	5)	RM 4	%	BF		% W	'B 2	%	РΟ	10		<u>.</u>		BS 1	10%		Ť								_
Even-				Uneve	n-ag	ged	_														Bi	oma	ISS				_
Slope	_	_	%	Aspect	_	0																					_
Stand	Stand Origin: Old Field X Partial Cut X Burn Unploughed X Windfall Non Forest Ploughed																										
	Clear Cut Unknown																										
	Clear Cut Unknown Mature X Over-mature																										
Stand	and Maturity Class: Regeneration Immature Mature X Over-mature and Stocking: Understocked Fully Stocked X Overstocked Patchy																										
Stand	and Stocking: Understocked Fully Stocked X Overstocked Patchy ensity: SW 1,200 HW 2,000																										
Densi	and Stocking: Understocked Fully Stocked X Overstocked Patchy Insity: SW 1,200 HW 2,000 Vanced Regeneration: Understocked Fully Stocked X Overstocked Patchy X																										
Adva	nce	ed Rege	SW 1,200 HW 2,000)	(
Reger	nera	ation:	generation: Understocked Fully Stocked X Overstocked Patchy																								
			n: 1. Spp. BS																								
	_		tion: 1. Spp. BS																	_							
Groui	nd '	Vegeta	atio	n Speci	es P	rese	ent:	Be	ake								rrv. (Gro	und h	neml	ock.	Gro	und c	eda	r. D	warf	_
	T									erry				,,,			1,				,				, -		_
Groui	nd I	Hemlo	ck	X Y/	N N				- 1																		
Invasi	ive	Specie	es P	resent		$\overline{}$	Υ/	N X		f yes	th	en v	wha	at spec	ies:												_
Site Ir	ndio	cators		Υ/	N	Х			ı	f yes	th	en v	wha	at spec	ies:												
									FN	VIRO	NN	1FN	TAI	OBSE	RVA	TIO	NS										
Wate	r Co	ourse	N.		Bog	N	J	Pond	_			trea				eps				В	eave	er Pr	esent	N	Υ/	'N	_
Drain			or		_	oder	_	Х	Go	ood				ellent				Eı	rosior				uired	-	Υ,		
Snag			Ad	equate	Х		In	adequ	_ uate						Т									П	j		_
Coars	e V	Voody	Ma	terial:		Ade	equa	te X		In	ade	equa	ate														
Dens	N			Nests (Rap	tors	, so	ngbiro	ds, e	tc.)	N																
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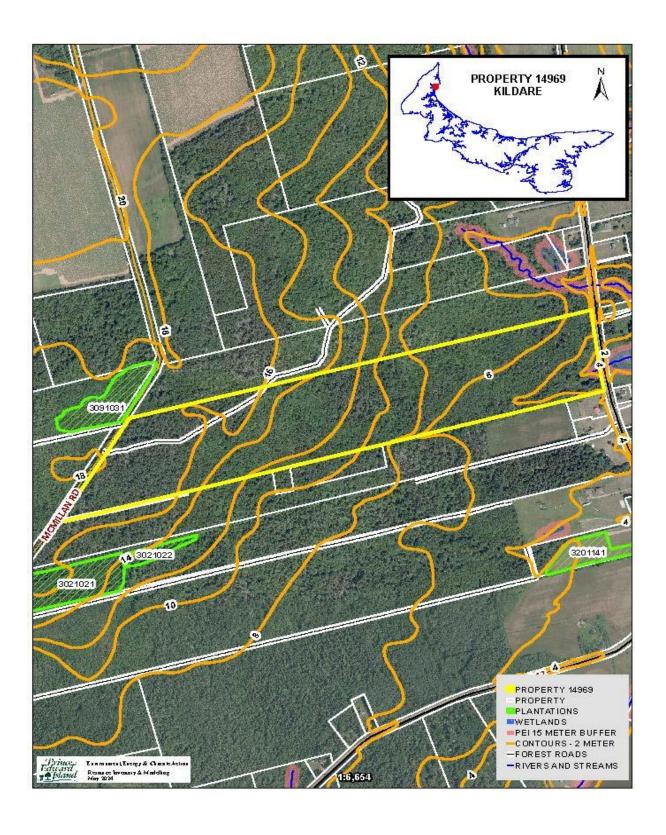
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Appendix G. Plantation Map with Contour Lines



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