Date: November 26, 2021

P.E.I.
Public Forests



Woodlot Management Plan

Property Number: 476028

Location: Duvar

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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 # 476028 is located on the Duvar Road, in the community of Duvar, P.E.I., (Appendix A).

The total area of this property is 32.4 hectares (80 acres) and the midpoint of the property is Latitude N

46.74502 decimal degrees, Longitude W -64.27295 decimal degrees.

Past Information

Local records and previous aerial photography show that the forested landbase has increased since 1968. Abandoned agriculture lands have reverted to forested land. To better illustrate this 1968 photography can be seen in Appendix B.

Property Information

The information in Appendix C has been taken from the 2010 Corporate Land Use Inventory. An explanation of forestry code meanings can be seen in Appendix D. Any stands that have proposed silvicultural treatment prescriptions are to have on-ground stand assessments completed prior to any work being started. This on-ground assessment information is included in this plan as updated stand tally sheets (Appendix E) and supplements the extrapolated data where applicable. A topographic map of the property shows the general terrain profile, the ranges in elevation and the plantations currently on the property (Appendix F).

Wetland and Watercourses

There are two watercourses on the property. Carruthers Brook crosses the property and flows into Mill River. Open water wetlands are present adjacent to the Brook. There is also an unnamed

tributary in the northern portion of the property that flows into Carruthers Brook. This observation can be viewed in Appendix A.

Property Access

Access to this property is obtained through the use of a woods road that is part of a larger road network accessing the Duvar public land properties. Currently, the road is not useable without extensive upgrade of the road network. Once the road network is upgraded, 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

Property Boundaries

This property is bounded on the south by an unmaintained portion of the Duvar Road, on the east, and west by public land, and on the north by private land.

Fire Protection

This property is located within the jurisdiction of the O'Leary Fire Department. The amount of personnel and equipment used to fight any forest fires will depend greatly upon the size and severity of the fire. Protection of our woodland from forest fire is the responsibility of the Forests, Fish and Wildlife Division and our local community fire brigades. In the Western District, there is a 900 gallon (gal) four-wheel drive forestry fire truck housed at each of the Wellington and West Point Fire Departments. These heavy-duty trucks are available to assist the local fire department responsible for this area. Additional forestry fire trucks, off road tracked vehicles, portable pumps and specialized forest fire suppression

equipment are available if needed. A stream that flows through the middle of the property would be a suitable site to setup a portable fire pump system; however, the existing road needs to be upgraded to facilitate this.

Planting and Silviculture

There are three 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")

<u>www.princeedwardisland.ca/sites/default/files/publications/2018 eco manual technical version - final.pdf</u>. Any additional information may be obtained by contacting a Provincial Forest representative at the District Forestry Office in Wellington.

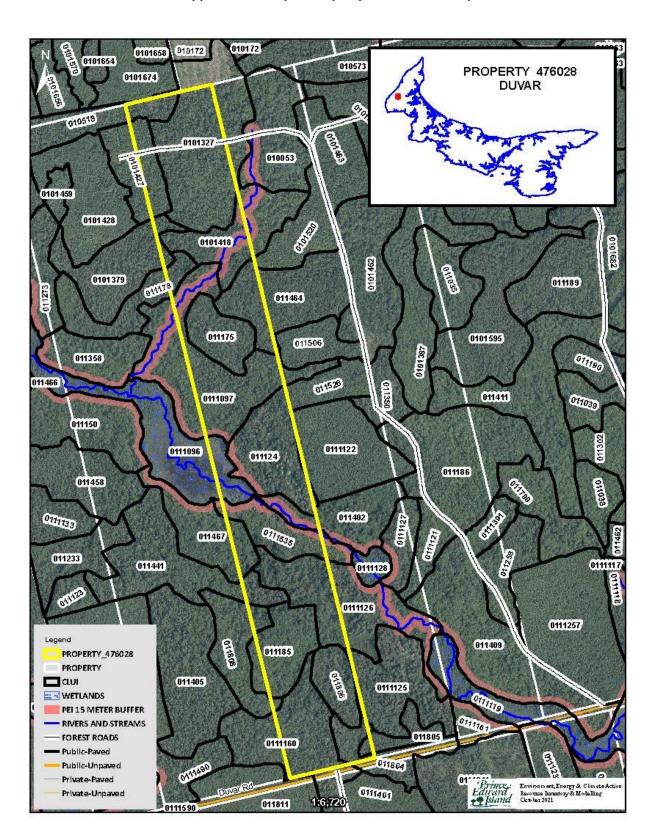
Table 1. Proposed Treatment Summary.

	T	1	1	I	T	1
Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	2018 Eco- Manual Reference	Comments	Goals
Road	Road Maintenance	2011	210 m	Pg 11, 12	Brush cutting, re- ditching, fill, grading	Improve road access
Riparian	Watercourses and Wetlands	All	1	-	Retain a 15 m riparian area adjacent to all watercourses and wetlands.	Protect watercourse and wetland values
111126 11808 11467 111097 101418 11178	Block Harvest (modified)	2023	5.5	Pg 30	These are mixed wood stands with a component of mature and over mature SW. Harvest the SW component along with some of the PO and WB. Retain all RM, WA, SM and some PO and WB.	Salvage overmature wood
111160 11441 11124 11175 11464 101327 101379 10518	Block Harvest	2023	13.4	Pg 30	These are over mature SW dominant stands. Harvest SW and some PO and WB. Retain all RM, WA, SM and some PO and WB.	Salvage over mature wood
111126 11808 11467 111097 101418 11178	Site Preparation & Planting	2024	5.5	Pg 14, 16	Prepare microsites and plant species suitable to the site	Establish a new crop on trees
111160 11441 11124 11175 11464 101327 101379 10518	Site Preparation & Planting	2024	13.4	Pg 14, 16	Prepare microsites and plant species suitable to the site	Establish a new crop on trees
111126 11808 11467 111097 101418 11178	Manual Plantation Maintenance	2027	5.5	Pg 17	Competition expected mostly from GB and PO.	Improve crop tree growth and development

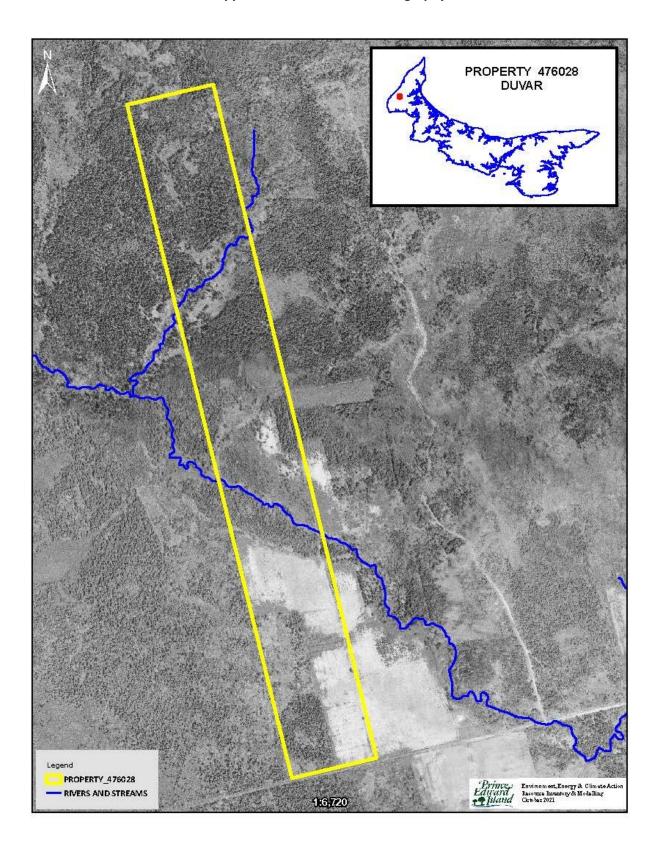
111160 11441 11124 11175 11464 101327 101379 10518	Manual Plantation Maintenance	2027	13.4	Pg 17	Competition expected mostly from GB and PO.	Improve crop tree growth and development
PN 3925071 (11805)	Manual Plantation Maintenance	2027	0.2	Pg 17	Competition from GB, RM and PO.	Improve crop tree growth and development

Appendices

Appendix A. Map of Property with Locator Map



Appendix B. 1968 Aerial Photography



Appendix C. 2010 Corporate Land Use Inventory

FIELDID	COV1	PER1	COV2	PER2	COV3	PER3	COV4	PER4	COV5	PER5	НТ	НА
0111096	COVI	0.00	COVZ	0.00	COVS	0.00	COV4	0.00	COVS	0.00	0.00	0.83
0111030	WP	10.00		0.00		0.00		0.00		0.00	7.00	0.00
0111124	WS	4.00	LA	3.00	WB	2.00	PO	1.00		0.00	17.00	3.28
011124	LA	9.00	WB	1.00	VVD	0.00	10	0.00		0.00	7.00	0.04
0111160	BS	4.00	WS	2.00	BF	2.00	RM	1.00	PO	1.00	15.00	2.50
0111100	LA	3.00	WS	2.00	PO	2.00	WB	2.00	BF	1.00	14.00	0.67
011804	BS	5.00	LA	3.00	BF	2.00	VVD	0.00	БГ	0.00	14.00	1.38
011404	BS	5.00	PO	2.00	RM	1.00	BF	1.00	WS	1.00	15.00	1.83
011173	WS	8.00	WB	2.00	KIVI	0.00	DF	0.00	VV3	0.00	2.00	0.00
011326	RM	4.00	BF	2.00	WS	2.00	LA	2.00		0.00	15.00	0.53
0111126	WS	4.00	LA	2.00	RM	2.00	WB	2.00		0.00	16.00	2.30
0111125	WS	6.00	LA	4.00	KIVI	0.00	VVB	0.00		0.00	17.00	0.10
-					NA/D							
011806	BS	6.00	LA	2.00	WB	2.00		0.00		0.00	13.00	1.45
011805	BS	8.00	LA	2.00		0.00		0.00		0.00	10.00	0.11
0111535	RM	4.00	LA	3.00	WS	2.00	PO	1.00		0.00	14.00	1.75
0101327	WS	4.00	RM	3.00	PO	2.00	LA	1.00		0.00	15.00	4.74
010518	WS	8.00	PO	1.00	RM	1.00		0.00		0.00	15.00	0.55
0101379	BS	7.00	LA	2.00	BF	1.00		0.00		0.00	13.00	0.34
011178	BS	4.00	RM	2.00	WB	2.00	LA	1.00	PO	1.00	12.00	0.40
0101674	LA	8.00	WB	2.00		0.00		0.00		0.00	2.00	0.00
0101427	BS	8.00	LA	2.00		0.00		0.00		0.00	5.00	1.07
0101520	NS	7.00	RM	3.00		0.00		0.00		0.00	3.00	0.00
011467	РО	5.00	RM	3.00	WS	1.00	LA	1.00		0.00	19.00	0.56
0111097	RM	4.00	WS	2.00	PO	2.00	LA	1.00	BS	1.00	14.00	3.85
011808	RM	4.00	PO	2.00	WS	2.00	LA	1.00	BS	1.00	18.00	0.32
011185	RM	5.00	PO	3.00	WB	1.00	WS	1.00		0.00	18.00	2.20
011441	PO	4.00	BS	3.00	RM	2.00	LA	1.00		0.00	18.00	0.52
0101418	RM	3.00	WB	3.00	WS	2.00	BS	1.00	LA	1.00	13.00	1.80

Appendix D. Forest Inventory Codes

Appendix D. Forest Inventory Codes

EXPLANATION OF FOREST CODES; **SPECIES**

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

PERC	ENT	CRO	WN CLOSURE				
0	1 - 9%	\mathbf{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 %	${f E}$	51 % - 60 %	BR	Burn	DI	Disease-Insect
5	50 – 59 %	\mathbf{F}	41 % - 50 %	\mathbf{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 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

вод	AL	Alders		
Clear Land	\mathbf{FL}	Flowerage	FORES	ST GROUND CONDITION
Swamps - Open	\mathbf{AG}	Agricultural Land	SW	Wet – Swampy
Excavation Pit	SD	Sand Dune	ST	Steep
Power Line	UR	Urban	\mathbf{SY}	Sandy
Cemetery	$\mathbf{W}\mathbf{W}$	Water		
	Clear Land Swamps – Open Excavation Pit Power Line	Clear Land FL Swamps – Open AG Excavation Pit SD Power Line UR	Clear Land FL Flowerage Swamps – Open AG Excavation Pit SD Sand Dune Power Line UR Urban	Clear Land FL Flowerage FORES Swamps – Open AG Agricultural Land SW Excavation Pit SD Sand Dune ST Power Line UR Urban SY

Appendix E. Stand Tally Sheets from on the Ground Assessment

CRUISER S. Rankin STAND # 111160 PLANTATION # PROPERTY # 476028 AREA 2.4 ha Date 6/ 10/ 2021 D M Y				
Note				
SAMPLE TREE INFORMATION				
SAMPLETREE INFORMATION				
TREE # SPP. AGE D.B.H. HEIGHT TREE # SPP. AGE D.B.H. HEIGHT A A A A A A A A A				
1 BS 93 36 16 4 5 5 3 3 3 6 5 6 6 5 5 5 5 5 5 5 5 5 5 5				
STAND INFORMATION Stand Basal Area SW M³/Ha SWSL M³/Ha HW M³/Ha HWSL M³/Ha Species and (%) BS7 % BF1 % PO1 % RM1 % WB Species and (%) BS7 % BF1 % PO1 % RM1 % WB Silope level % Aspect Stand Origin: Old Field Partial Cut Burn Unploughed Windfall X Non Forest Ploughed Windfall X Non Forest Ploughed Windfall X Non Forest Ploughed Partial Cut Unknown Stand Maturity Class: Regeneration Immature Mature Over-mature X Stand Maturity Class: Regeneration Immature Mature Over-mature X Stand Stocking: Understocked Fully Stocked X Overstocked Patchy Density: SW 2,200 HW 400 Advanced Regeneration: Understocked X Fully Stocked Overstocked X Patchy Density: SW 2,200 HW 400 Advanced Regeneration: Understocked X Fully Stocked Overstocked X Patchy X Regeneration: 1. Spp. BF1 Height 0.2-2.0m 2. Spp. Height GROUND OBSERVATIONS Ground Vegetation Species Present: bracken fern, bunch berry, blueberry, wild raisin, woody shrub, laurel Ground Hemlock X Y/N If yes then what species: Site Indicators V/N If yes then what species: ENVIRONMENTAL OBSERVATIONS Water Course N Bog Pond Stream Seeps Beaver Present Y/N Drainage: Poor X Moderate Good Excellent Erosion Control Required Y/N Sonag Trees: Adequate X Inadequate Dens N Nests (Raptors, songbirds, etc.) N Wildlife Observed None Comments STAND PRESCRIPTION				
STAND INFORMATION Stand Basal Area SW M²/Ha SWSL M²/Ha HW M²/Ha HWSL M²/Ha Species and (%) BS7 % BF1 % PO1 % RM1 % WB Even-aged X Uneven-aged Stope level % Aspect Stand Origin: Old Field Partial Cut Burn Unploughed Windfall X Non Forest Ploughed Clear Cut Unknown Stand Stocking: Understocked Fully Stocked X Overstocked Patchy Density: SW 2,200 HW 400 Advanced Regeneration: 1. Spp. BF1 Height 0.2-2.0m 4. Spp. Height Regeneration: 1. Spp. BF1 Height 0.2-2.0m 4. Spp. Height GROUND OBSERVATIONS Ground Vegetation Species Present: bracken fern, bunch berry, blueberry, wild raisin, woody shrub, laurel Ground Hemlock X Y/N If yes then what species: Site Indicators Y/N If yes then what species: ENVIRONMENTAL OBSERVATIONS Water Course N Bog Pond Stream Seeps Beaver Present Y/N Drainage: Poor X Moderate Good Excellent Erosion Control Required Y/N Snag Trees: Adequate X Inadequate Coarse Woody Material: Adequate X Inadequate Dens N Nests (Raptors, songbirds, etc.) N Wildlife Observed None Comments STAND PRESCRIPTION				
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Even-aged X Uneven-aged				
Slope level				
STAND # 111160 PLANTATION #				
Windfall X Non Forest Ploughed				
STAND # 111160				
Density: SW 2,200 HW 400				
Advanced Regeneration: Understocked X Fully Stocked Overstocked X Patchy X Regeneration: 1. Spp. BF1 Height 0.2-2.0m 2. Spp. Height Heig				
STAND # 111160				
3. Spp. RM Height 0.2-2.0m 4. Spp. Height GROUND OBSERVATIONS Ground Vegetation Species Present: bracken fern, bunch berry, blueberry, wild raisin, woody shrub, laurel Ground Hemlock X Y/N Invasive Species Present Y/N If yes then what species: Site Indicators Y/N If yes then what species: ENVIRONMENTAL OBSERVATIONS Water Course N Bog Pond Stream Seeps Beaver Present Y/N Drainage: Poor X Moderate Good Excellent Erosion Control Required Y/N Snag Trees: Adequate X Inadequate Coarse Woody Material: Adequate X Inadequate Dens N Nests (Raptors, songbirds, etc.) N Wildlife Observed None Comments STAND PRESCRIPTION				
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Wildlife Observed None Comments STAND PRESCRIPTION				
STAND PRESCRIPTION				
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Shelterwood Cut Selection Cut Patch Cut Strip Cut				
tops. It needs to be harvested ASAP. There is a lot of BF regeneration is areas where the stand has				

1 RM											STA	ND	TA	LLY	SH	EET													
PROPERTY #																		1											
Note				S.	Ranl	kin			_	ΓAN	ID#	-						+			ΑT	_						071	
SAMPLE TREE IN FORMATION	PROPERT	ΓΥ #				_	47	7602	28	+	-	AF	REA		0.7		ha	- [Dat	te						-			
TREE # SPP. AGE			Ш						C	Λ N /	DIE	TD	CC I	NEC) D N	407	ION					L)	IN	√I	<u> </u>			
1	Note																												
2 Stand Basal Area SW		CRUISER																											
Stand Bass Area SW		CRUISER S. Rankin STAND # 11804 & 11805 PLANTATION # 3925071 ROPERTY # 476028 AREA 0.7 ha Date 6 / 10 / 2021 SAMPLE TREE INFORMATION																											
Stand Basal Area SW			+			+			+					Н		_		+											
Stand Basal Area SW M²/Ha SWSL M²/Ha HW M²/Ha HWSL M²/Ha Species and (%) RM1 % PO1 % GB2 % WB1 % BFBS3, IA2 AL														Н															
Species and (%) RM1				-						S	TAN	ND I			ΛA	TIOI	N												
Even-aged X	Stand Bas	al Area	!	SW		Ν	$M^2/$	/Ha	S	WSI			M ²	/Ha		H	IW			$M^2/$	На		Н۷	VSL			M²	/Ha	
Stand Origin: Old Field	Species ar	nd (%)	RM:	1	% P	01		%	GB2	%	W	/B1	%			BFB	S3, L	A2	AL										
Stand Origin: Old Field Windfall Non Forest Ploughed Plou	Even-aged	X	Un	ever	n-age	d																	Bi	oma	ass				
Non Forest Non	Slope lev	rel %	Asp	ect																									
Stand Maturity Class:	Stand Orig	gin: O	ld Fi	eld			Ρ	artia	al Cu	t		В	urn					Un	plo	ugh	ed								
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Pre-comm	ercial T	hinnir	ng				Refo	ores	stati	ion			Χ		F	Ripar	riar	Zo	ne M	gmt							
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					3. S	pp. R	Μ				Hei	ght	0.2	.6-3)m		4.	Sp	o				Не	eigh	t						
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CRUISE	ER		S.	. Rar	۱ki	n			ST	ΑN	D#			111	124	Ļ		PL	ΑN	ITAT	ΙΟΙ	N #						
PROPER	TY#			47	602	8						AR	EΑ	3.	3	h	a	Da	ate		19	/	10	/	20	21		
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TREE#	SPP.		AG	E		D.I	3.H.		HE	IGH	ΗT				1	TREE	Ξ#	SP	P.		ΑG	ìΕ		D.I	B.H.		HE	GH
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Species a		RN	12	%	WS	5	%	BF	1	%	PO	01	%	١	NΑ	, SM	l, Str	iped	M									
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Stand Ma	turity (Class	::		Reg	ene	erati	on				Imr	mati	ure			Ma	ture	:			٥٧	er-	mat	ure	Х		
Stand Sto	cking:		Und	derst	:ock	ced				Ful	ly S	tocl	ked	Х		(Over	stoc	kec	ı			Pat	chy				
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Advanced	l Regen	erati	on:		ı	Jnd	lers	tock	ced			Ful	ly S	tocke	d	Х	0	vers	stoc	ked			Р	atch	hy			
Regenera	tion:		1. S	рр.	BF				Hei	ght	0.2	-3.0)m		2.	Spp	o. BS	5			Hei	ght	0.2	2-2.0)m			
			3. S	рр.	BS				Hei	ght	0.2	2-3.0)m		4.	Sp	o				Hei	ght						
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Ground V	ogota ti	on Si	nacio	oc Dr	000	nt:		dov	who					raisi			cotai	l ro	nd o	cior	dor	TWO	od	WO	odv	chr	uhc	
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Water Co	urse `	<u> </u>		Bog		N	Po	nd	N			Stre	am	Υ	S	Seep	s N	1			В	eav	er F	Pres	ent	N	Υ/	N
Drainage	: Poo	r X		Мо	der	ate		X	Go	od			Exc	cellen	t			E	ros	ion	Cor	itro	l Re	qui	red	N	Υ/	N
Snag Tree	es: A	Adeq	uate	Χ		Ir	nade	equa	ate																			
Coarse W	oody N	/late	rial:		Ade	equ	ate	Χ		lı	nad	equ	ate															
Dens N	<u> </u>	Ne	sts (Rapt	ors	, sc	ngb	ird	s, e	tc.)	N																	
Wildlife (Observ	ed	Nor	ne ob	sei	vec	t																					
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	l a	tter h	narve	estif	· pla	anti	ng i	s re	qui	ired	ı. Pl	ant	WS	is red	qui	red.												

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PROPERT	Υ#			47602	28	I					AR	EA	3	3.7	h	а	Da	ite		19		10		20			
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TREE#	SPP.	ĪΛ	GE		П	B.H		_	IGH		וחו ן		NFU		TREE		SP	D		AG	· C		D 1	3.H.		шс	IGHT
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3	- 10					30			1/					_	5 5		\vdash								\neg		
<u> </u>											<u> </u>														П		
									ST	AN	IDI	NF(ORM	IAT	ION												
Stand Bas	al Area	S	W		M	/Ha		SW	VSL			M ²	/Ha		Н٧	٧		M ²	/Ha		Н۷	VSL			M ²	² /Ha	ı
Species ar	nd (%)	RM3	9	% BF	2	%	LA:	1	%	PC)2	%			WB	1, W	S1										
Even-aged		Une	ven	-a ged	Х																Bi	oma	ass				
Slope	1 %	Aspe	ct	S																							
Stand Orig	gin: O	ld Fie	ld			Part	ial C	ut			В	urn				U	npl	oug	hed								
	W	/indfa	II			Non	Fore	est									Pl	oug	hed								
	Cl	ear C	ut	Χ		Un	knov	vn																			
Stand Mat	turity Cl	ass:		Reg	gen	erat	ion				Imi	mat	ure			Ma	ture	X			Ov	er-ı	mat	ure	L		
Stand Stoc	king:	U	nde	erstoc	ked				Ful	ly S	toc	ked	Χ		(Overs	toc	ked				Pat	chy				
Density:	SW			HW										4											Ш		
Advanced							tock					•	tocke	ed		0	vers	toc	ked			Р	atch	ıy	_	Χ	
Regenerat	ion:			p. PO		Л					-3.0			2.	. Sp	o				Hei	ght						
		3.	Sp	p. BF,	/BS		H	lei	ght	0.2	-4.0)m		4.	. Sp	o				Hei	ght						
									GF	ROL	JND	OB	SERV	ATI(ONS												
Ground Ve	egetatio	n Spec	cies	Pres	ent:		yell	ow	cli	ntoı	nia,	bur	nch b	err	y, fe	rns,	wild	l rai	sin,	gro	unc	d pi	ne,	cluk	mc	oss	
							haze	eln	ut, I	rose	e, bl	lueb	erry	, go	ldth	rea d	, laι	ırel,	bra	cke	n fe	ern					
Ground He	emlock	'	1 / Y	N X																							
Invasive S	pecies F	Preser	nt		Υ,	/ N		I	f ye	es th	nen	wha	atsp	ecie	es:												
Site Indica	ators	\	Y / N	N				- 1	f ye	es th	nen	wha	at spe	ecie	es:												
								EΝ	VIR	ONI	MEN	ITAL	OBS	SER\	/ATI	ONS											
Water Cou	urse Y		В	og	N	Pc	ond	N			Stre	am	Υ	9	Seep	s N	l			В	eav	er F	res	ent	N	Υ,	/ N
Drainage:	Poor	Х	ľ	Moder	ate		Х	Go	od			Exc	celle	nt			E	ros	ion	Con	trol	Re	quii	red	N	Υ,	/ N
Snag Trees	s: Ac	dequa	te	Х	- 1	nad	equa	te																			
Coarse Wo	oody Ma	ateria	l:	Ad	equ	ate	Х		Ir	nad	equ	ate															
Dens N		Nests	s (R	aptors	s, s	ongb	oirds	, et	tc.)	N																	
Wildlife O	bserved	d N	one	e obse	rve	d																					
Comments	Арј	ply a :	15 r	n buff	er																						
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Comments	: Thi	s is a	mi	xedwo	od	staı	nd ar	nd (con	tair	ns p	ock	ets v	vith	diff	eren	t ag	es.	lt is	HW	/ do	mir	nant	t. H	arv	est	the
	BF,	LA an	nd V	VS, W	Ва	nd P	O. Re	eta	in t	he I	RM.	Pla	nt W	/S. R	Retai	n yo	ung	er tr	eed	are	as.	The	esit	e is	we	tter	
	tov	vards	the	strea	m.	Plar	nt WS	o a	n th	e d	rier	par	ts of	the	site	and	BS	on t	he v	vett	er a	rea	ıs.				

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CRUISE	R		S.	Ranl	kin	1		ST	ΑN	D#			111	75		1	PLA	NTA	TIC	N #	‡					
PROPERT	Υ#					47	7602	28			AR	EΑ	1.8	3	ha	ı	Date	e	1	9 /	10	/	20	21		
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TREE#	SPP.		AG	E	[D.B	.н.	HI	EIGH	ΗT				TR	EE #	‡ !	SPP		Α	GE		D.I	B.H		HEI	GHT
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2														5												
3														6												
						2				_	DI		ORMA	_	_									2		
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Species ar					S2		%	LA2	%	RN	/ 11	%		P	01,	WB1	1	_	+							
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Slope lev		6 As	pect		_														_		-					
Stand Orig	gin:	Old	Field		4	P	artia	al Cu	t		В	urn		_				ighe			_			Ц		
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Stand Mat	turity	Class	5:	R	ege	enei	ratio	on			Imr	nati	ure X		N	/latu	ire			0	ver-	mat	ure	<u></u>		
Stand Stoo	cking:		Und	lersto	cke	ed			Ful	ly S	tocl	ked	Х		Ov	erst	ocke	ed			Pat	chy				
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Regenerat	ion:		1. S	pp. B	F/E	3S		He	ight	0.2	-4.0) m		2. 5	Spp.				Н	eigh	t					
			3. S	pp. R	M			He	ight	1.0	-4.0) m		4. 5	pp.				Н	eigh	t					
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Ground Ve	egetat	on S	pecie	s Pre	ser	nt:	ı	aure	l, wil	ld ra	aisi	n, b	rackei	ı fer	n, tv	vin f	low	er, b	unc	h be	rry,	blu	ebei	rry		
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Ground He	emloc	k	Υ/	N >	(
Invasive S	pecie	s Pre	sent		1	Υ/	N		If ye	es th	nen	wha	at spec	ies:												
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Water Cou	_	_	_	3og	Ν	_	Por	_		_	stre	am _		_	eps	N	_				ver F			_		
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Snag Trees			uate	$\overline{}$				quate						-					-							
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Wildlife C	bserv	ed	non	e obs	e۲۱	ved																				
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Shelterwo	od Cu	t					9	Select	ion	Cut					Pat	ch C	ut						Str	ip C	ut	
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Pre-comm			_					Refor					Х			aria	•			nt						
Pln. Main		Х			9	Ster	ns/F								Ė				Ť							
Comments		_		ixedv					est p	ock	ets	of S	SW, PC	an	d W	3. Th	ere	is a	lot	of na	atura	al re	eger	in	star	nd.
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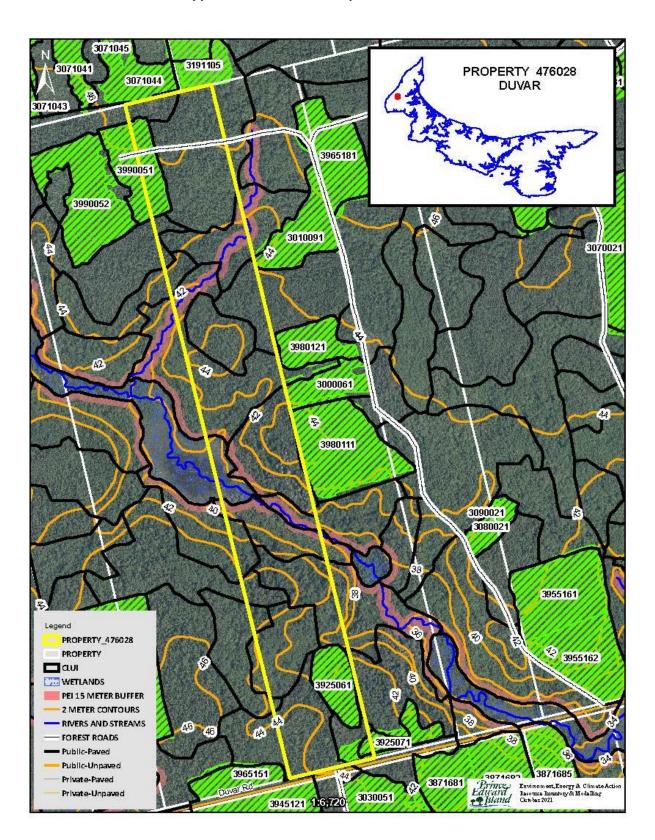
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Regenerat	1011.			_									Spp.						0.5	-3.0	1111			
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Ground Ve	egetatio	n Spe	ecies P	rese	ent:	wi	ld ra	aisin	, laur	el, fe	ern													
Ground He			Y/N	Х																				
Invasive S		Prese			Υ/	N	1		then															
Site Indica	itors		Y/N					If yes	then	wha	at spe	cies	::											
							EN	VIRC	NME	NTAL	OBS	ERVA	ATIO	NS										
Water Cou	ırse N		Bog		N	Pond	N		Stre	eam	N	Se	eeps	N			В	eav	er P	res	ent	N	Υ/	N
Drainage:	Poor	X	Mo	der	ate		Go	od		Ex	celler	t			Eı	rosion	Con	trol	Red	quir	ed	N	Υ/	N
Snag Trees	s: A	dequa	ate X		Ir	nadequ	ate																	
Coarse W	oody M	ateri	al:	Ad	equ	ate X		In	adequ	ate														
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TREE #	SPP.	1,	AGE		Г	B.H.		_	IGH		I KI		NFC	-	TRE		c	PP	,	AC	26		Г	B.H		ш	IGH1
1	BF	- '	AGE	42	-	Б.П.	18	ПЕ	IGI	13				-	4	L#	3	ГГ	•	AC	JL		D.	Б.П	•	IIL	IGH
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3														_	<u>5</u> 6												
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									ST	AN	DI	NF	ORN	ИΑТ	ION	ı											
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Even-aged		Une	even-	-a ged	Х																Bi	iom	nass				
Slope S	%	Aspe	ect	2																							
Stand Orig	gin: O	ld Fie	eld			Part	ial	Cut			В	urn				ι	Jnp	lo	ughed								
	W	Vindf	all			Non	For	est									Р	lo	ughed								
	C	lear (Cut	Χ		Un	kno	wn																			
Stand Mat	turity Cl	ass:		Re	gen	erati	on				Imi	mat	ure			Ma	tur	e	Х		٥١	ver-	mat	ure	Х		
Stand Stoo	king:	ι	Jnde	erstoc	ked				Ful	ly S	toc	ked	Χ			Over	sto	ck	ed			Pat	tchy				
Density:	SW	2,0	00	HW	1,	600																					
Advanced	Regene	ratio	n:		Und	ders	tocl	ked	Χ		Ful	ly S	tock	ed		C)ver	st	ocked			F	atc	hy		Χ	
Regenerat	ion:	1	Sp	p. BF				Hei	ght	0.2	-5.0)		2	. Sp	p.				Hei	ight	:					
		3	. Sp	p. RN	12			Hei	ght	0.2	-5.0)		4	. Sp	p.		_		Hei	ight	_					
									GF	ROU	IND	OB:	SERV	/ATI	ONS	;											
Ground Ve	egetatio	n Spe	ecies	Pres	ent:		blu	ebe	erry,	, bu	nch	ber	ry, s	arsa	apaı	rilla,	, fer	ns	, dewl	oerr	y, a	ste	r, tv	vinfl	ow	ær,	
							yel	low	cli	ntor	nia																
Ground He	emlock		Y / N	N X																							
Invasive S	pecies	Prese	nt		Y	/ N		ı	lf ye	s th	nen	wha	atsp	ecie	es:												
Site Indica	ators		Y/N	١				ı	lf ye	s th	nen	wha	atsp	ecie	es:												
								EN	VIR	ONI	MEN	NTAL	OB	SER	VATI	ONS											
Water Cou	ırse Y		Вс	og	N	Pc	nd					am			Seep			T		Е	Bea v	/er	Pres	ent	N	Υ	/ N
Drainage:	Poor	Х	N	Mode	rate	2		Go	od			Exc	celle	ent				Er	osion	Cor	ntro	l Re	equi	red	N	Υ	/ N
Snag Trees	s: Ac	dequa	ate	Х	ı	nad	equ	ate										T									
Coarse W	oody M	ateria	al:	Ad	- lequ	ıate	Χ		Ir	nad	equ	ate						T									
Dens N		Nest	ts (Ra	aptor	s, s	ongt	oird	s, e	tc.)	N								T									
Wildlife C	bserve	d N	None	obse	rve	d																					
Comments	Ар	ply a	15 n	n ripa	ria	n bu	ıffer																				
									9	STAI	ND	PRE	SCRI	PTI	ON									_	_		
No Treatm	nent						Reg	ene	erat							Crop	Tre	e F	Releas	e			1	Blo	ock	Cut	Х
Shelterwo									on					_		Patch				Ì						Cut	
Commerci	al Thini	ning							stat					_	_			_	ation		Х				Ė		
Pre-comm			ing						stat				Х						one M		_						
Pln. Main		T .			Ste	ems/	'На									Ť				Ì							
Comments	: Thi			ation			-	are	mix	ed '	woo	od a	nd ι	ınev	/en a	ged	. Ha	rv	est the	e SV	v, v	VB a	and	PO.	Pla	ant	BS
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								9	TA	ND	TA	LLY SH	IEET												
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PROPERT	ΓΥ #		476	02	8					AR	EA	4.6	5	ha	Da	ate		19	•	10		20			
							C	^ N / I	OLE.	TDE	. E 11	NFOR	N // A T	ION				D)	- 1\	Λ	Y	_		
ΓREE #	SPP.	AC	· E	1	D.B	ш		EIGH		IND	.E 11	NFOR	_	E#	lc r	P.		AG	_		חו	3.H.		ПС	GH
1	BS	AC		90	υ.ь		32	lGi	18				4	.L #	Эг	Г.		AG			D.E	э.п.	•	ПЕ	GH
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3				_			+						6		+										
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			1 1					ST	ΓAΝ	ID II	NFO	ORMA	TIOI	V											
Stand Bas	al Area	SW	•		$M^2/$	На	S۱	WSL			M^2	/Ha	H	IW		M ²	/Ha		НΜ	/SL			M	²/Ha	
Species ar	nd (%)	BSRS3	% L	A1	- 1	%	BF2	%	R۱	/12	%		W	B1, P	01										
Even-aged	ΙX	Uneve	en-age	ed															Bi	oma	ass				
Slope	%	Aspect	t																						
Stand Orig	gin: O	ld Field			P	artia	ıl Cut	:		Вι	ırn	Х		ι	Jnpl	oug	hed								
	W	/indfall			Ν	on F	orest	:							Pl	oug	hed								
	CI	ear Cut	:			Unkr	nown																		
Stand Mat	turity Cl	ass:	R	leg	ener	ratio	n			Imr	nati	ure		Ma	ture	X			Ov	er-r	nati	ure	Х		
Stand Stoc	cking:	Un	dersto	ock	ed			Ful	ly S	tock	ked	Χ	<u>.</u>	Over	stoc	ked			F	Pato	chy				
Density:	SW	2,000	H/	W	4	00																			
Advanced	Regener	ration:		Į	Jnde	ersto	cked	Х		Ful	ly S	tocked		C	ver	stoc	ked			Pa	atch	ıy		Χ	
Regenerat	ion:	1. 5	Spp. E	3FR	S		He	ight	0.2	-3.0)m		2. S _l	p.				Heig	ght						
		3. 5	Spp.				He	ight					4. S	p.				Heig	ght						
								GI	ROL	JND	OBS	SERVAT	ION	S											
Ground Ve	egetatio	n Speci	es Pre	ese	nt:	v	vild r	aisi	n, b	luek	oerr	y, woo	dy s	hrubs	, go	ldth	read	d, bu	ıncl	ı be	erry	, laı	ıre	Ι,	
						С	lubm	noss																	
Ground He	emlock	Y	/ N 🖸	X																					
nvasive S	Species F	resent			Υ/	N		If ye	es th	nen	wha	it spec	ies:												
ite Indica	ators	Υ,	/ N					If ye	es th	nen	wha	t s pec	ies:												
							EN	IVIR	ONI	MEN	ITAL	OBSE	RVAT	IONS											
Vater Cou	urse Y		Bog	N	ı	Pon	id N			Stre	am	Υ	See	ps I	١			Вє	eav	er P	res	ent	N	Y	' N
	Poor	Х	Mod	ler			Go	ood			Exc	ellent			1	ros	ion	Con	trol	Re	quir	ed	N	Υ/	' N
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Coarse Wo	oody Ma	lequate aterial: Nests	Rapto	ors	equa , soi	rte ngbi	X	lı			ate														
Coarse Wo	oody Ma	lequate aterial: Nests	Rapto	ors	equa , soi	rte ngbi	X	etc.)	N			SCRIPT	ION												
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Coarse Wo Dens N Vildlife Comments	oody Ma Observed s	lequate aterial: Nests	Rapto	ors	equa , soi	ngbi	x rds, e	etc.)	STAI	ND F	PRES	SCRIPT		Crop			eas	e						Cut	X
onag Trees Coarse Wo Dens N Wildlife C Comments No Treatm	oody Ma	lequate aterial: Nests d No	Rapto	ors	equa , soi	ngbi	X rds, e	etc.)	STAI cion Cut	ND F	PRES	SCRIPT		Patch	Cut			e	X			Blo		-	X
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Coarse Wo Dens N Wildlife Comments No Treatm Commerci Commerci	oody Ma Observed S nent ood Cut all Thinnercial T t. X S: Thi	lequaterial: Nests Nests No	(Raptone obs	mi	equa , sorved	R S A R Rms/H t sta	x rds, e Regen relect affore Refore	eration estat	N STAI cion Cut cion tion	ND F	PRES	X nixed t	hrou	Patch Site P Ripar	reparian	z Zon rves	ion e Ma	gmt id Pl	lant			Stri	ip (Cut	

										S1	ΓAΝΙ	D TA	LLY S	SHEI	ΞT												
CRUISE	R			S.	Ranki	n			ST	AND	#		10	1427			PL	ANT	ΑT	ION	1 #			3	990)51	
PROPERT	Υ#				47602	28					Α	REA		1	h	a	Da	te		19	/_	10	/	20	21		
																				D)	١	N	١	′		
									SA	MP	LE TE	REE	INFO	RM.	4TI(NC											
TREE#	SPP.		Α	GE		D.	B.H.		HE	IGH ⁻	Γ			Т	REE	#	SP	Ρ.		AG	E		D.E	3.H		HE	IGH
1														4													
2														5													
3														6													
							,			_	AND		ORM	1ATI	ON												
Stand Bas	al Are	ea	S	W		M	/Ha		SV	VSL		M	² /Ha		HV	٧		M ² /	'Ha		HV	VSL			M	/Ha	1
Species ar	nd (%)) [BS3		% LA2	2	%	GE	31	%	BF2	%			RM	1, PC)1										
Even-aged	Х		Une	ver	n-aged																Bi	oma	ass				
Slope Le	vel	%	Aspe	ct																							
Stand Orig	gin:	Ole	d Fie	ld		ı	Part	ial (Cut			Burn	Щ.	_		U	nplo	ough	ed								
		Wi	ndfa	III		١	Non	For	est								Plo	ough	ed								
		Cle	ar C	ut	Χ		Un	kno	wn																		
Stand Mat	turity	Cla	ss:		Reg	gene	erati	on			In	nma	ture	Χ		Mat	ure				Ov	er-r	nat	ure			
Stand Stoc	king:		U	nd	erstoc	ked				Fully	/ Sto	cked			С	vers	toc	ked	Х		ı	Pato	chy				
Density:	S	W	3,00	00	HW	2,0	000																				
Advanced	Rege	nera	ation	1:		Und	ders	tock	ced		Fι	ılly	Stock	ed		O	vers	tock	ed			Pa	atch	ıy			
Regenerati	ion:		1.	Sp	op.				Hei	ght				2.	Spp).				Heig	ght						
			3.	Sp	p.				Hei	ght				4.	Spp).				Heig	ght						
										GR	NIIC	D OF	SERV	ΔΤΙΟ	NIS												
Ground Ve	ogetat	tion	Sner	rie	s Prese	ont.				Oit	0011		JOLINA	, , , , ,	110												
di dana ve	geta		Эрск		1103																						
Ground He	amloc	·k	١,	Y /	NI																						
nvasive S		_	_		IN	v	/ N			fvoc	tho	a wh	atsp	ocio													
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orte murca	1015	_		1 /	- IV					ı yes	tilei	I WIII	atsp	ecre	·-												
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Nater Cou	ırse	N		В	og	N	Pc	nd	N		Str	eam	N	S	eeps	N				Вє	eav	er P	res	ent	N	Υ/	/ N
Drainage:	Po	or	Χ	_	Moder	ate			Go	od		Ex	celle	nt			E	rosi	on	Con	trol	Re	qui	red	N	Υ/	/ N
Snag Trees	s:	Ad	equa	te		I	nad	equa	ate	Χ																	
Coarse Wo	oody	Ma	teria	l:	Ad	equ	ate			In	deq	uate	X														
Dens N		l	Nests	s (R	aptors	s, s	ongt	oird	s, e	tc.)	N																
Wildlife O	bser	ved	N	on	e obs e	rve	d																				
Comments	5																										
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Comments			1 1	• .	L.		1 - 0:							_	I- '												
Comments	_				h no v																	her	e is	no	acc	ess	

Appendix F. Plantation Map with Contour Lines



Appendix G. Work Completed

Activity	Treatment	Amount	Treatment	Treatment description
Number	Code	Completed	Date	
0	16	2	9/17/1999	Misc. Road Maintenance
0	2	100	9/17/1999	Fill
3925061	23B	1.34	9/5/1991	Rhome Disc Double Pass - Per
				На
0	3L	1	11/2/1998	Culvert 75cm Class 3 road
3925061	51W	3375	7/13/1992	BLACK SPRUCE - WESTERN
3990052	51W	6615	6/24/1999	BLACK SPRUCE - WESTERN
0	7	0.5	11/2/1998	Class 3 Road Construction