Date: June 22, 2023

P.E.I.
Public Forests



**Woodlot Management Plan** 

**Property Number: 225326** 

**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. 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 # 225326 is located on Route #13, in the community of Brookvale, P.E.I., (Appendix A). This property contains the main parking lot and lodge for the NORDIC Centre. It includes the biathlon shooting range as well as Nordic ski trails. The parking lot and Nordic lodge are the main entrance for mountain biking, cross-country skiing, snowshoeing, winter fat-biking and the snow-sliding hill. The total area of this property is 57.9 hectares (142.99 acres) and the midpoint of the property is Latitude N 46. 26972 decimal degrees, Longitude W -63.42111 decimal degrees.

### **Past Information**

Local records and previous aerial photography show that the northern portion (approximately 47.1 hectares) of this property was used for agricultural purposes early in the 20<sup>th</sup> century. To better illustrate this 1935 and 1968 photography can be seen in Appendix B and Appendix C.

## **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 are two main streams or watercourses on this property (Appendix A). A few small feeder springs were also noted.

The northern stream that crosses the properties flows generally west to east. This stream eventually flows through a culvert located at the Downhill Ski Park to the east. This northern stream is part of the West River watershed. Approximately 37 hectares (91.4 acres) of these two properties drains into the West River Watershed. Some windfall from hurricane Fiona were removed from the stream to limit "damming" by debris and obstructions for fish passage.

The southern stream section is located on the Desable River watershed. Approximately 43 hectares (106.2 acres) of the land located on these two properties drains into the Desable River to the west.

## **Property Access**

There are no dedicated roads although access is very good utilizing all the trail systems that can serve as access for motorized vehicles. Cross-country ski trails can serve as roads during the summer season but are groomed for winter recreation. PEI Parks details approximate recreational trail lengths in the Brookvale properties complex as:

- 45km +/- Nordic ski trails
- 10km+/- Winter "Fat-Bike" trails
- 7km Snowshoe trails
- 20km+ Mountain Bike trails (\*see following photo)

## **Property Boundaries**

The properties northern boundary is located on Rte.# 13. The eastern boundary is shared with "privately owned" land. The western boundary is shared with another P.E.I. Government property.

This parcel contains the biathlon shooting range and the X-Country Ski Lodge complex named in honour of Mark Arendz. These parcels hosted events for the Feb.2023, Canada Winter Games. The following pictures are from the Canada Games event in 2023. (Some Fiona windfall salvage area can be noted in the background where windfall trees were removed to open trails and allow the event to be held.)





## **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 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 also based out of Charlottetown. The stream that flows through the property would be a suitable site to setup a portable fire pump system.

\*Following hurricane Fiona, work was completed to reduce fuel load and fire danger adjacent to nearby private homes. Salvage harvest operations reduced fire risk associated with wildfire and improved access and public safety.

## **Planting and Silviculture**

There are no plantations on the property that appear on current mapping. However, planting was completed in various years by community groups (Boy Scouts) and some additional enhancement has been completed by staff. A prescription of this management plan is to complete mapping of these "unmapped" plantations and have them included in the current database. 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 -

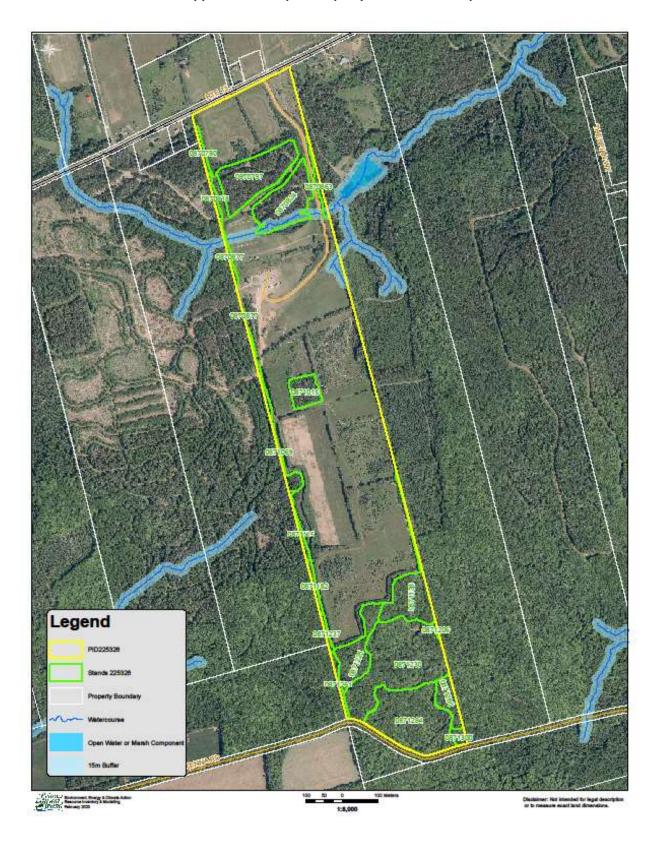
<u>final.pdf</u> . Any additional information may be obtained by contacting a Provincial Forest representative at the District Forestry Office in Wellington.

**Table 1. Proposed Treatment Summary.** 

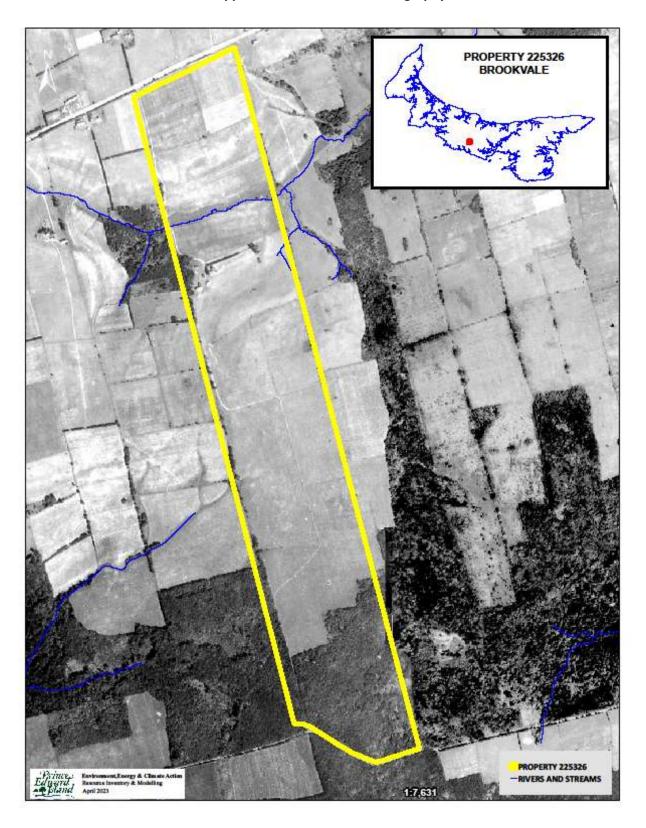
Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	2018 Eco- Manual Reference	Comments	Goals
Road	Road Maintenance	2023		Pg 12	Brush cutting, side trimming of recreational trails	Improve management access
871230, 871225, 871138, 871284, 871260	Crop Tree Release	2023	11.31 ha	Pg 23	No treatment overall for recreation and aesthetics; very low density CTR on a few quality stems	Increase development on targeted high quality stems
871300	Crop Tree Release	2023	0.17 ha	Pg 23	No treatment overall for recreation and aesthetics; very low density CTR on a few quality stems	Increase development on targeted high quality stems
871015	Invasive Species Removal	2023	0.63 ha	Pg 38	Scotch Pine invasive noted developing, girdle to create snag and control	Protect natural biodiversity, control invasive spread
870797, 870824	Manual Site Preparation & Enrichment Planting	2023	4.03 ha	Pg 14 & 17	Improve aesthetics, introduce diversity, low density planting	Enhance diversity and aesthetics
*no stand #	Prepare GPS mapping and enter development in database	2023	15.6 ha		Add plantations to database, GIS mapping	Document for management tracking
*no stand #	Manual Site Preparation & Enrichment Planting	2023	15.6 ha	Pg 14 & 17	Improve aesthetics, introduce diversity, low density spot planting	Enhance diversity and aesthetics

**Appendices** 

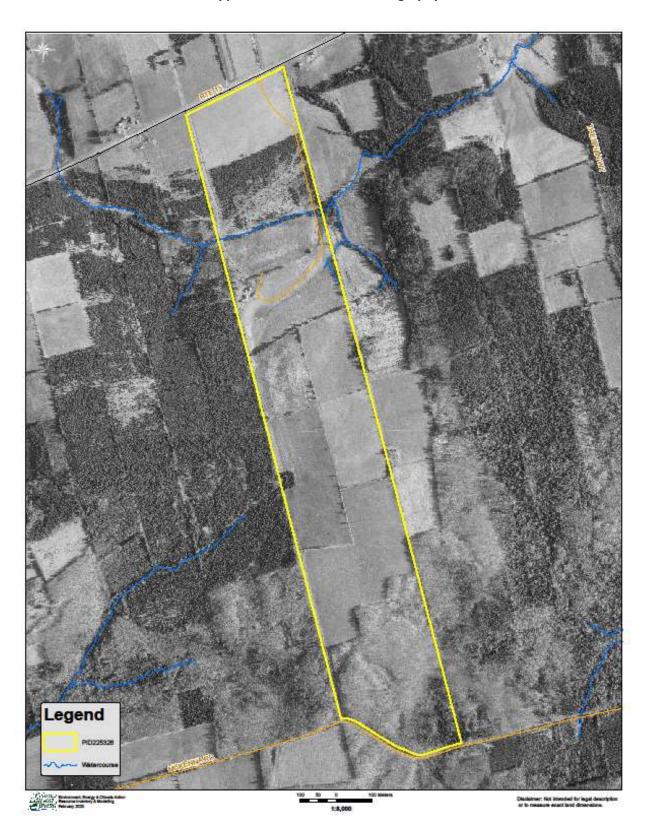
Appendix A. Map of Property with Locator Map



Appendix B. 1935 Aerial Photography



Appendix C. 1968 Aerial Photography



Appendix D. 2010 Corporate Land Use Inventory

<u>FIELDID</u>	COVER1	PER1	COVER2	PER2	COVER3	PER3	COVER4	PER4	COVER5	PER5	HEIGHT	CROWN	<b>HECTARES</b>	<u>WOODSTOCK</u>
0870797	WS	10		0		0		0		0	16	75	2.22	WSPR
0870780	WS	10		0		0		0		0	16	85	0.12	WSPR
0870824	WS	9	WB	1		0		0		0	14	65	1.81	WSPR
0871015	WS	10		0		0		0		0	5	80	0.63	WSPR
0871300	RP	6	RM	2	WB	2		0		0	10	80	0.17	SWIH
0870818	WS	9	WB	1		0		0		0	18	60	0.12	WSPR
0871069	WS	6	WB	2	RM	2		0		0	17	75	0.45	SWIH
0871138	SM	4	YB	3	RM	2	WB	1		0	19	90	1.57	THMX
0871260	SM	5	YB	3	RM	2		0		0	19	90	0.60	THMX
0871206	SM	4	RM	3	PO	1	YB	1	WB	1	19	85	0.05	THMX
0871237	WB	4	RM	3	SM	2	WS	1		0	16	85	0.11	IHMX
0871261	WB	3	SM	2	YB	2	RM	2	BF	1	17	85	0.19	THMX
0870863	WS	4	WB	2	RM	2	YB	2		0	15	75	0.21	IHSW
0870877	YB	4	WB	2	RM	2	WS	2		0	19	80	0.15	THMX
0871182	SM	4	WB	2	RM	2	PO	1	YB	1	17	95	0.15	THMX
0871230	SM	5	YB	2	RM	2	WB	1		0	19	85	4.49	THMX
0871284	SM	4	RM	3	YB	2	WB	1		0	20	95	3.37	THMX
0871225	RM	5	WB	2	SM	2	YB	1		0	18	90	1.28	IHMX
0871115	WS	6	WB	2	RM	2		0		0	15	65	0.16	

## **Appendix E. Forest Inventory Codes**

# EXPLANATION OF FOREST CODES; <u>SPECIES</u>

WS	White Spruce	JL	Japanese Larch	WB	White Birch
BF	Balsam Fir	$\mathbf{EL}$	European Larch	PO	Poplar
HE	Hemlock	NS	Norway Spruce	$\mathbf{R}\mathbf{M}$	Red Maple
WP	White Pine	PC	Pin Cherry	RO	Red Oak
RP	Red Pine	MA	Apple	$\mathbf{W}\mathbf{A}$	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		

<b>PERC</b>	<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 %	$\mathbf{F}$	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 %	TH	Thinning	EP	<b>Excavation Pit</b>
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-F	OREST LAND T	YPES			
BO	Bog	AL	Alders		
$\mathbf{CL}$	Clear Land	FL	Flowerage	<b>FORE</b>	ST GROUND CONDITION
SO	Swamps - Open	$\mathbf{AG}$	Agricultural Land	SW	Wet – Swampy
EP	<b>Excavation Pit</b>	SD	Sand Dune	ST	Steep
PL	Power Line	UR	Urban	$\mathbf{SY}$	Sandy
$\mathbf{C}$	Cemetery	$\mathbf{W}\mathbf{W}$	Water		

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

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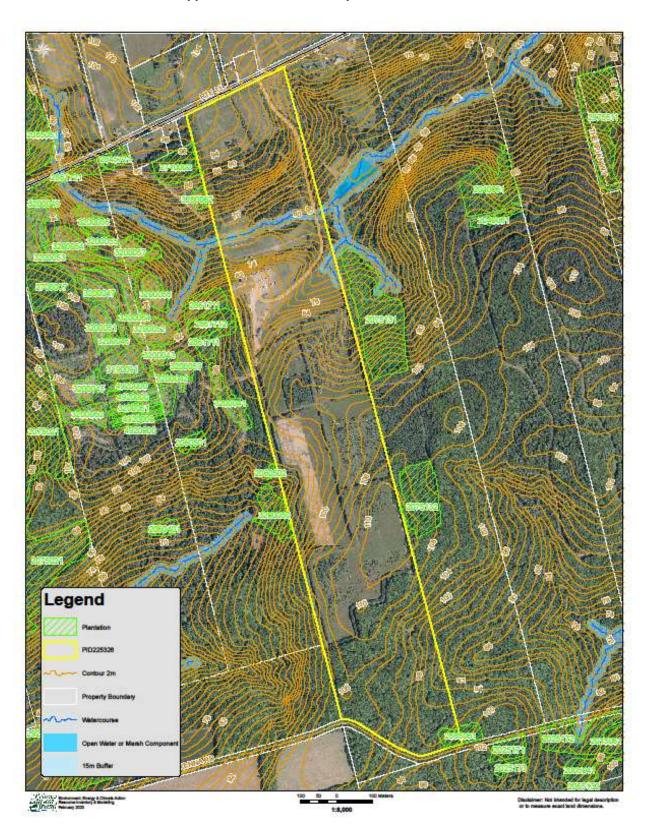
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Site In	dicator	S		Υ/	N	_				ŀ	f yes th	nen	wha	t sp	ecie	es:				_						_			
										EN۱	/IRONI	MEN	ITAL	OBS	SER	VA	TIO	NS											
Water	Course	9		E	Bog			Po	ond			Stre	am			See	eps				В	eave	er P	rese	ent		Υ,	/ N	
Draina	ge: I	oor			М	ode	rate	<u> </u>		Go	od		Exc	elle	nt				Er	osion	Cor	itrol	Re	quir	ed		Υ,	/ N	
Snag T	rees:	Ac	dequ	ıate			lı	nad	equ	ate												Ш							
Coarse	Wood	ly M	ater	ial:		Ad	equ	ate			Inad	equ	ate																
Dens			Nes	sts (	Rap	tor	s, so	ong	bird	s, e	tc.)																		
Wildlif				spa																									
Comm	ents	pa	tche	s of	ор	en g	ras	slar	nd w	/ith	sectio	ns o	f im	mat	ure	de	evel	opin	g cc	ver, r	ecre	eatio	on t	rails	S	_			
											STA	ND	PRES	SCRI	PTI	ON													
No Tre	atmen	t							Reg	gen	eration	Cu	t				Crc	p Tr	ee F	Releas	e				Blo	ck (	Cut		
Shelte	rwood	Cut							Sel	ecti	on Cut						Pat	tch C	ut						Str	ip C	Cut		
Comm	ercial <sup>-</sup>	Thinr	ning						Aff	ore	station	1					Site	e Pre	par	ation		Х							
Pre-co	mmer	ial T	hinn	ning					Ref	fore	station	1		Х			Rip	ariar	n Zo	ne M	gmt	<u></u>							
Pln. M	aint.		Υ/	N			Ste	ms,	/Ha																				
Comm	ents:										elopin/													_					
						_		_			by boy																		
							_				rsity, (				_											_		ed	
											of pla					_					ılly	stoc	kec	d, go	od	vig	or,		
		rec	creat	ion	al tr	rails	in	sect	tion	s. n	lanted	hed	ge a	alone	w	est	hou	unar	v (ti	rail)									

Appendix G. Plantation Map with Contour Lines



Appendix H. Work Completed

activity #	treatment code	amount completed	date completed	treatment description
	15	0.34	9/30/2020	Road right of way cutting
	16	0.1	6/7/2021	Misc. Road Maintenance
	16B	2.4	6/16/2020	Mechanical roadside trimming
	16D	0.2	3/19/2020	Grading
2190505	16J	100	8/22/2019	Mulching
	2	1	5/26/2015	Fill
	2	1	5/26/2015	Fill
	2	1	5/26/2015	Fill
	2	20	5/26/2015	Fill
	28	3	6/19/2015	Duff Removal
	28	1.5	5/17/2019	Duff Removal
	31	1	6/5/2018	Farm Equipment: per Ha
	430	3	5/26/2015	Garbage Cleanup
	55E	1200	6/13/2017	WHITE SPRUCE - EASTERN
	55W	1200	6/12/2018	WHITE SPRUCE - WESTERN
	55W	1325	6/19/2019	WHITE SPRUCE - WESTERN
	55W	1325	6/19/2019	WHITE SPRUCE - WESTERN
	55WF	260	6/13/2018	FILL PLANT WHITE SPRUCE - WESTERN
	58WF	65	6/13/2018	FILL PLANT YELLOW BIRCH - WESTERN
	64E	300	9/25/2015	RED OAK - EASTERN
	64E	250	10/3/2016	RED OAK - EASTERN
2170500	64E	250	10/4/2017	RED OAK - EASTERN
	75WF	65	6/13/2018	FILLPLANT RED MAPLE - WEST
	75WI	45	6/20/2019	INTERPLANT RED MAPLE - WEST
	90	0.1	11/4/2022	Selective Cut
	90	1.76	5/27/2015	Selective Cut
	95	1200	6/24/2015	Special Projects
	95	1	6/13/2016	Special Projects
	95	3	6/13/2016	Special Projects
	95	2	6/13/2016	Special Projects
	95	5	9/22/2020	Special Projects
	95	5	9/22/2020	Special Projects
2190503	95	5	9/11/2019	Special Projects
2190504	95	1	5/16/2019	Special Projects