

Woodlot Licence W1611 – Site Plan (Original) Block GH15 – Open Bay



TENURE IDENTIFICATION

Licence	C.P.	Block	Region	District	Location	Mapsheet
Woodlot W1611	JA	GH15	Coast	Campbell River	Quadra Island – Gowlland Harbour	92J 014

Total Area Under Plan (TAUP) (ha)	Net Area to be Reforested (NAR) (ha)	Max Soil Disturbance In NAR (%)	Maximum Permanent Access Structure (%)	Wildlife Tree Retention Requirement (stand level biodiversity) (%)
1.8	1.7	8%	8%	N/A

SU	NAR (ha)	MOF Stocking Standard ID #
1	1.7	106685

MANAGEMENT STRATEGIES

Strategies for objectives prescribed under WLP.	Applicable to site (Y/N)	Indicate how strategy applies to site
Riparian Management (WLPPR, Sec.36(4)) (WLP, Sec. 2.11.5, Sec 2.11.6, Sec 2.11.7, Sec 2.11.8, Sec 2.11.9)	N	Block GH15 is bounded along the SW by a deeply incised S6 stream. There is 20 Management Zone (RMZ) along that stream. By Regulation there is no required reserve along the stream. A minimum of 10m is reserved along the stream generally along the edge of the incised stream bank. Within the remainder of the RMZ, partial harvest will occur.
Wildlife Tree Retention (WLPPR, Sec 52(1)) (WLP, Sec. 2.11.10)	Y	The long-term management intent at Block G15 is a future forest similar to the adjacent Protected Area along SE Heriot Ridge. Trees will be retained at approximately 20m intertree distance such that approximately 25 dominant or co-dominant trees per hectare are planned for retention.
Coarse Woody Debris (WLPPR, Sec. 54(1)) (WLP, Sec. 2.11.11)	Y	Minimum retention or 4 logs per ha $\geq 5.0\text{m}$ in length and $\geq 30\text{cm}$ diameter at one end.
Resource Features (WLPPR, Sec. 56(1)) (WLP, Sec. 2.11.12)	Y	There are no 'Resource Features' within block GH14. The 'Old B&B Trail is visible from the block and the access road (Arran's Avenue) crosses the trail. There is also a informal walking path within block GH15 (Janice's Jaunt?). This trail location has been mapped via GPS and will be re-established post harvest.

AREA SUMMARY

	AREA (ha)							
	TOTAL AREA UNDER PLAN	NP NATURAL Rock / Water / Swamp	PERMANENT ACCESS STRUCTURES	SLR * (Stand Level Retention)	WTP (Wildlife Tree Patch)	RMA RESERVE ZONE	RESERVE(S) / IMMATURE PATCHES	NET AREA TO BE REFORESTED (NAR)
1	1.8	-	0.1	-	-	-	0.0	1.7
BLOCK TOTAL	1.8	-	0.1	-	-	-	0.0	1.7

ECOLOGICAL INFORMATION AND SITE CHARACTERISTICS

SU	Site Index Spp/S _{iso}	SI Source Code	SU AREA DESCRIPTION								
1 01ss	Fd / 36	Field Measure	SU1 GH15 is classified as an 05 (4/D) site with relatively well drained SL soils. The SE boundary is an S6 stream and the block is bounded to the N and NW by the 'Northeast Gowlland Reserve' which is a permanent reserve area within Woodlot Licence W1611. The eastern boundary of block GH15 is private land and recent legal pins have been established. The mature forest is primarily douglas fir and the shrub layer is dominated by sword fern (<i>Polystichum munitum</i>) and some huckleberry (<i>vaccinium parvifolium</i>). Fd height is 42 and the stand age is 95 years.								
			ELEVATION (m)			SLOPE (%)			ASPECT	BEC	
SU	Min	Max	Avg.	Min	Max	Avg		ZONE/SUBZONE/VARIANT	SITE SERIES		
1	25	55	45	15	40	30	Flat	CWH xm	05 (4 / D)		
PREHARVEST STAND TYPE (est.) – SU 1											
Species Composition (by volume)			Age Distribution		Age Class	Height Class	Average diameter (cm)	Volume / ha (m ³ /ha)	Stems / ha		
Fd100%			second growth		5	5	60	900	400		

RESOURCE VALUES, MANAGEMENT STRATEGIES, AND RATIONALE

SOILS
Soil Disturbance Limits – 5% - SU 1 are: Compaction – Moderate / high; Displacement – Moderate, Erosion – Low.
Ground Based Yarding – Block will be harvested via hoe-forwarding.

SU	SILVICULTURE SYSTEM	DESCRIPTION
1	Irregular Shelterwood	Approximately 25 Dominant or Co-dominant trees to be retained post-harvest

SILVICULTURE PLAN

STOCKING STANDARDS **										
SU	NET AREA TO REFOREST (NAR)(ha)	SSID	SPECIES		WELL SPACED TREES/HA			MINIMUM INTERTREE SPACING (m)	REGEN DELAY (years)	LATE FREE GROWING (years)
			PREF. (height – m.)	ACC. (height– m.)	TSS PREF. & ACC.	MSS PREF. & ACC.	MSS PREF. ONLY			
1	1.7	1066681	Fd – 4.0 Cw – 2.0	Pw – 2.5 Bg – 3.5	900	500	400	2.0	3	12

Forest Health Factors:

Biotic – NA – no significant disease or pest infestations are observed at block GH15

Abiotic – NA – No significant signs of blowdown is observed in the vicinity of block GH1

SILVICULTURE TREATMENT REGIME

All seed and vegetative material used in accomplishing this plan will be used in accordance to the Chief Forester's Standards for Seed Use, and Changes to Seed Transfer Limits.

Standards Unit 1: 1.7ha NAR CWHxm 05 (4/D) Stocking Method: Plant

Harvesting

Block GH15 will be harvested under the 'Irregular Shelterwood Silviculture System*'. Mature leave trees will be maintained at approximate 20m inter-tree distance. The intent of the retained trees is to grow a future forest similar to the adjacent 'Heriot Ridge Protected Area' and to provide for Old Growth trees and increased biodiversity.

Silviculture - Artificial Reforestation

The recommended regeneration strategy is artificial (planting) to immediately reforest the site. The area should be planted the first spring following harvest with a combination of Fd and Cw. The area should then be surveyed following two growing seasons and fill planted at that time if required.

Vegetation Management Strategies

Monitor brushing, during scheduled surveys. Block GH15 is considered to have a low / moderate brush hazard. Prompt reforestation is recommended to minimize the necessity for brush control operation. Should surveys indicate that stocking / free-growing obligations will not be met, a brushing treatment will be scheduled. The method of brush control will be manual. Providing successful planting operations are completed, brush control at block GH15 is not anticipated.

ACTIVITY TIMELINE

Harvest (H)

Plant (if prescribed) - H + 1

Survey - H + 3

Brushing - H + ? – based on block visits

Free Growing – H + 20 years pending brush treatments and conifer height requirements

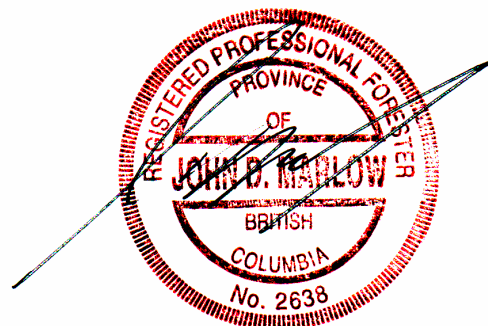
SEEDLING REQUIREMENTS *

Species	Age Class	Stock Types	Seed Zone	Elevation (m)	Trees per ha	Total Trees
Fd	1 + 0	410A	M	40	800	1360
Cw	1 + 0	410A	M	40	200	340

ANCILLIARY DOCUMENTS ON FILE:

- 1:5000 SITE PLAN MAP
- FIELD DATA CARDS (e.g., SP cards, forest health evaluations, site information, plantability, etc.)
- TERRAIN STABILITY ASSESSMENT
- ARCHAEOLOGICAL OVERVIEW ASSESSMENT
- VISUAL IMPACT ASSESSMENT
- SOIL HAZARD ASSESSMENT
- RIPARIAN ASSESSMENTS/RATIONALE
- FOREST HEALTH / PEST INCIDENCE ASSESSMENT
- PERMANENT ACCESS CALCULATION SHEET
- CRUISE SUMMARY
- WINDTHROW FIELD ASSESSMENT CARD

Site Plan prepared by: John Marlow, RPF



Registered Professional Forester Signature
Date: January 21, 2021

Silviculture System:

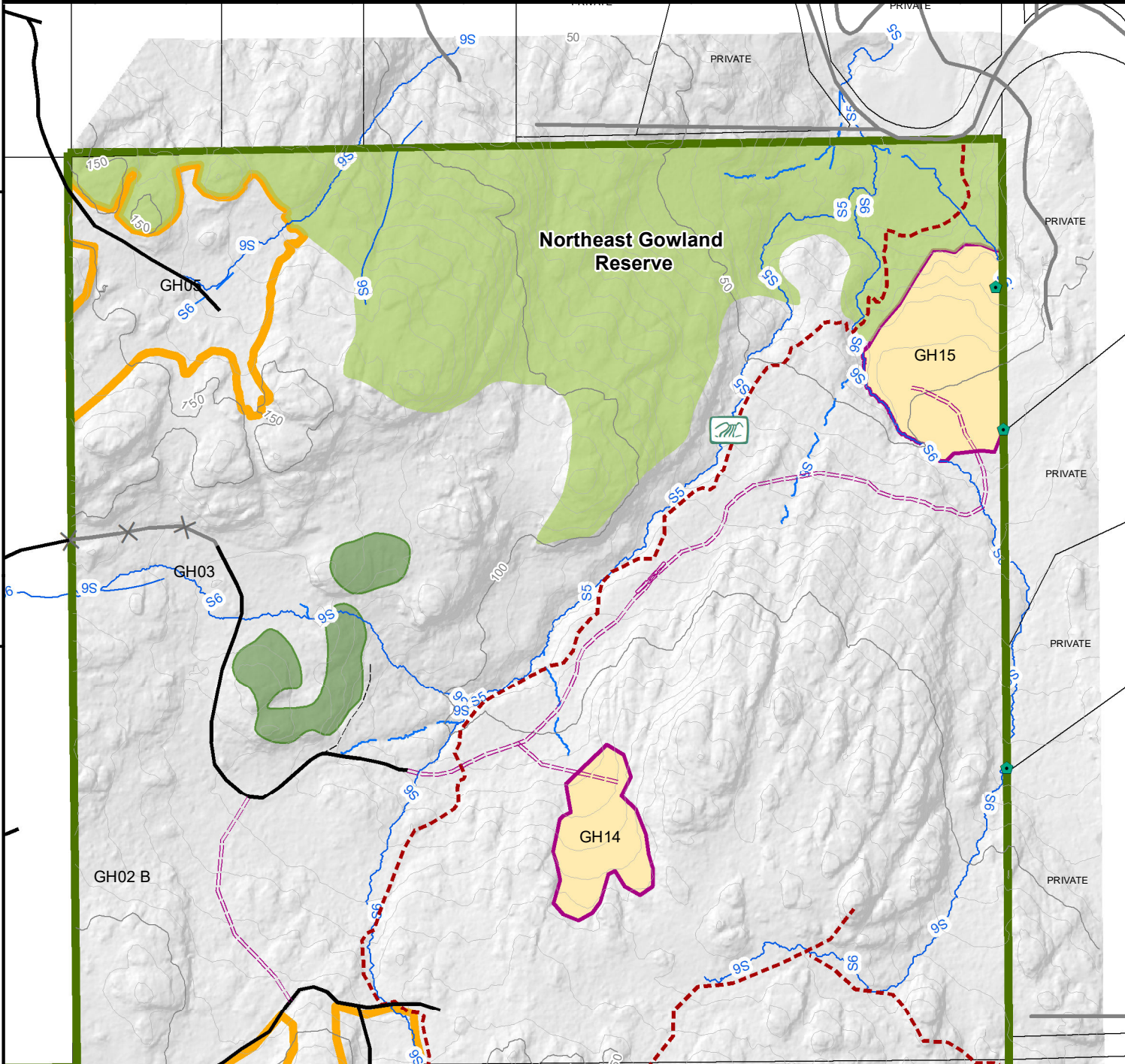
*** Irregular Shelterwood Silviculture System**

"An 'Irregular Shelterwood Silviculture System' can incorporate characteristics of other Shelterwood Systems (*A basic Shelterwood System is defined as a silviculture system in which mature trees are removed in a series of cuts to achieve a new 'even-aged' stand under the shelter of remaining trees*). The key characteristic of the 'Irregular Shelterwood' is that, although prompt regeneration is the objective, residual trees are left for periods beyond the regeneration phase (e.g. from 20% of the rotation to several rotations). Residual trees initiate new age classes of regeneration, accumulate wood volume increment and, if desired, achieve non-timber objectives". (From 1995 'Silviculture Systems Guidebook' BC Environment, BC Ministry of Forests).

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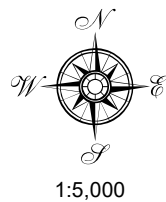
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Block	SU	Gross	NAR (ha)	PAS	BEC	Site Series	SSID	Lat	Long
GH14	1	0.9	0.8	0.1	CWHvm	01	1066681	50.112856	-125.236853
Total		0.9	0.8	0.1					
Block	SU	Gross	NAR (ha)	PAS	BEC	Site Series	SSID	Lat	Long
GH15	1	1.8	1.7	0.1	CWHvm	05	1066685	50.116650	-125.232538
Total		1.8	1.7	0.1					



Woodlot Licence W1611 Pre-Harvest Instructions
Blocks GH14 & GH15

Licensee: Rockview Resources Ltd.
Forest Region: Coast
Forest District: Campbell River
Ref. Map: 92J014
Datum, UTM Zone: Nad 83
Projection: BC Albers
Drafted By: Rockview Resources Ltd.
Date: January 2021



Woodlot Bdy

- Existing Block
- Engineered Block

Standard Units

- SU1
- SU2

Reserves

- Old Growth Reserve
- RRZ
- RMZ
- WTP

Road Feature

- Road Station
- FC
- Culvert
- Landing
- Barrier
- Road, Existing
- Road, Engineered
- Road, Deactivated
- Trail

Water Feature

- NCD
- S# 1 - S4 Fish Creek
- S# 5 - S6 Non Fish Creek
- Lake
- Wetlands

Resource Feature

- Water Intake
- Slope >60 %
- Contour - Index
- Contour - Intermediate

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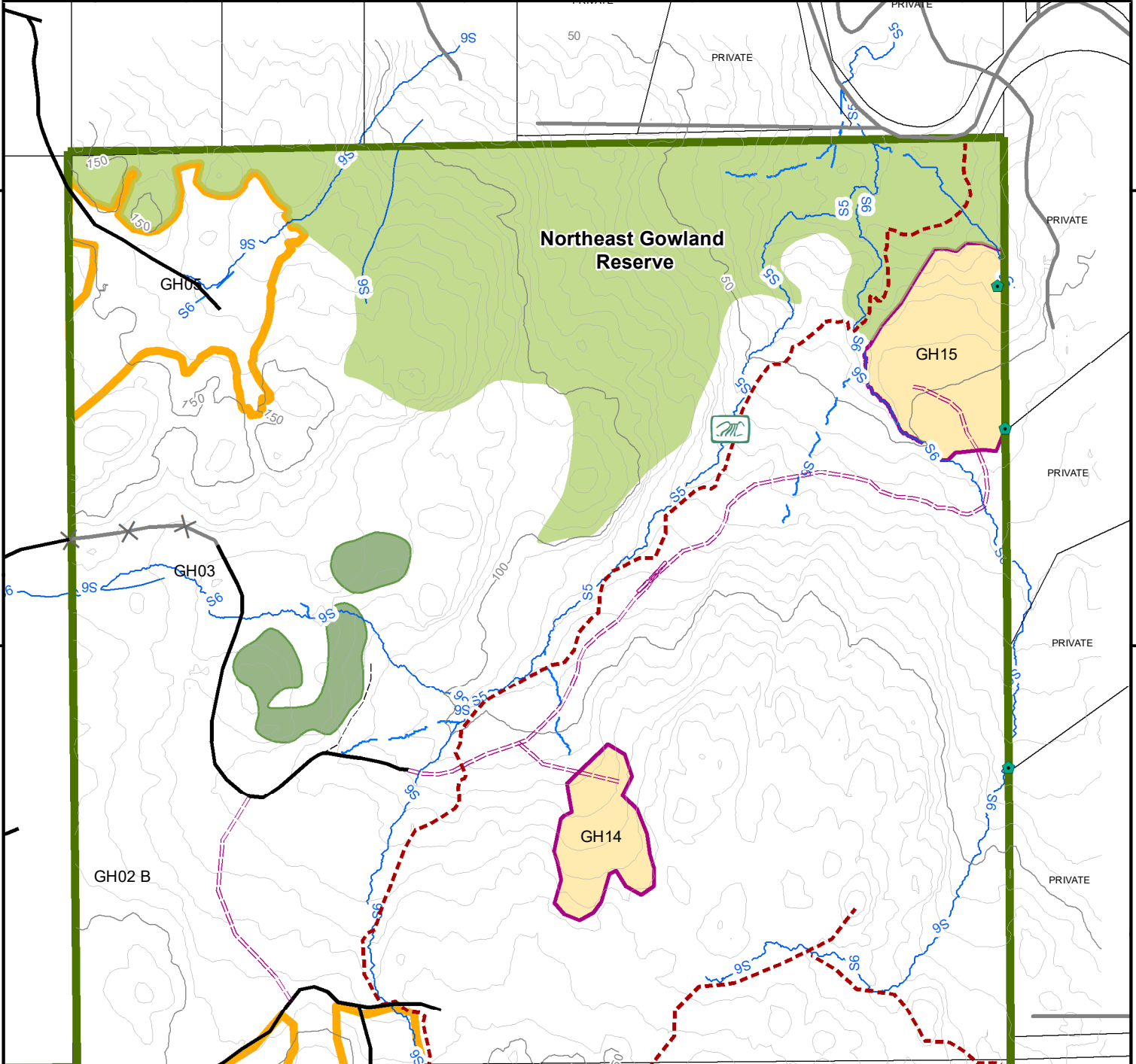
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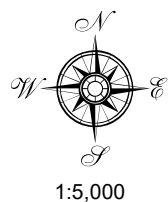
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Woodlot Body

Existing Block
 Engineered Block

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SU1
 SU2

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Old Growth Reserve
 RRZ
 RMZ
 WTP

Road Station

FC

Culvert

Landing

Barrier

Road Feature

Road, Existing

Road, Engineered

Road, Deactivated

Trail

Water Feature

NCD

S# 1 - S4 Fish Creek

S# 5 - S6 Non Fish Creek

Lake

Wetlands

Resource Feature

Water Intake

Slope >60 %

Contour - Index

Contour - Intermediate

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