



BRITISH
COLUMBIA

Caribou Habitat Restoration in BC

**An Overview of the Provincial Caribou Recovery Program Tool
&
A FLNRORD led Initiative in the Quintette Range**



**BC CARIBOU
RECOVERY PROGRAM**

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British Columbia's Commitment

- 47M over five years
- Comprehensive and uniform approach
- Basis in traditional knowledge and science
- Emphasis on partnerships



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Why Habitat Restoration?

- Ultimate cause of caribou population decline
 - Habitat disturbance and fragmentation
- Functional and ecological habitat restoration aimed at
 - 1) reducing the use of linear features by wolves/humans
 - 2) Regeneration of disturbed ecosystems to pre-disturbed state



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British Columbia's Model

- BC – HCTF Multi-year agreement
 - Caribou Habitat Restoration Fund
- Application based model
 - Restoration of high-value habitat for caribou



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CHRF thus far

- Two public intakes:
 - December 2018
 - Nov 1, 2019
- Full list of approved projects available on HCTF website
hctf.ca/grants/caribou-habitat-restoration-grants/



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WHAT activities can the CHRF fund?

- Restoration of high-value habitat for caribou in BC using functional and ecological restoration methods
- Eligible Activities list is available on HCTF website
- Additional considerations around legal obligations, permitting, etc.





WHERE can projects take place?

- Province has identified high and medium priority ranges for restoration
- Website lists criteria for selecting areas for restoration within these ranges
- Consult with regional caribou bio





Other Funding Sources

- The Fish and Wildlife Compensation Fund (FWCP)
- Habitat Stewardship Program (HSP)
- Aboriginal Funding for Species at Risk (AFSAR)
- Forest Enhancement Society of British Columbia (FES)



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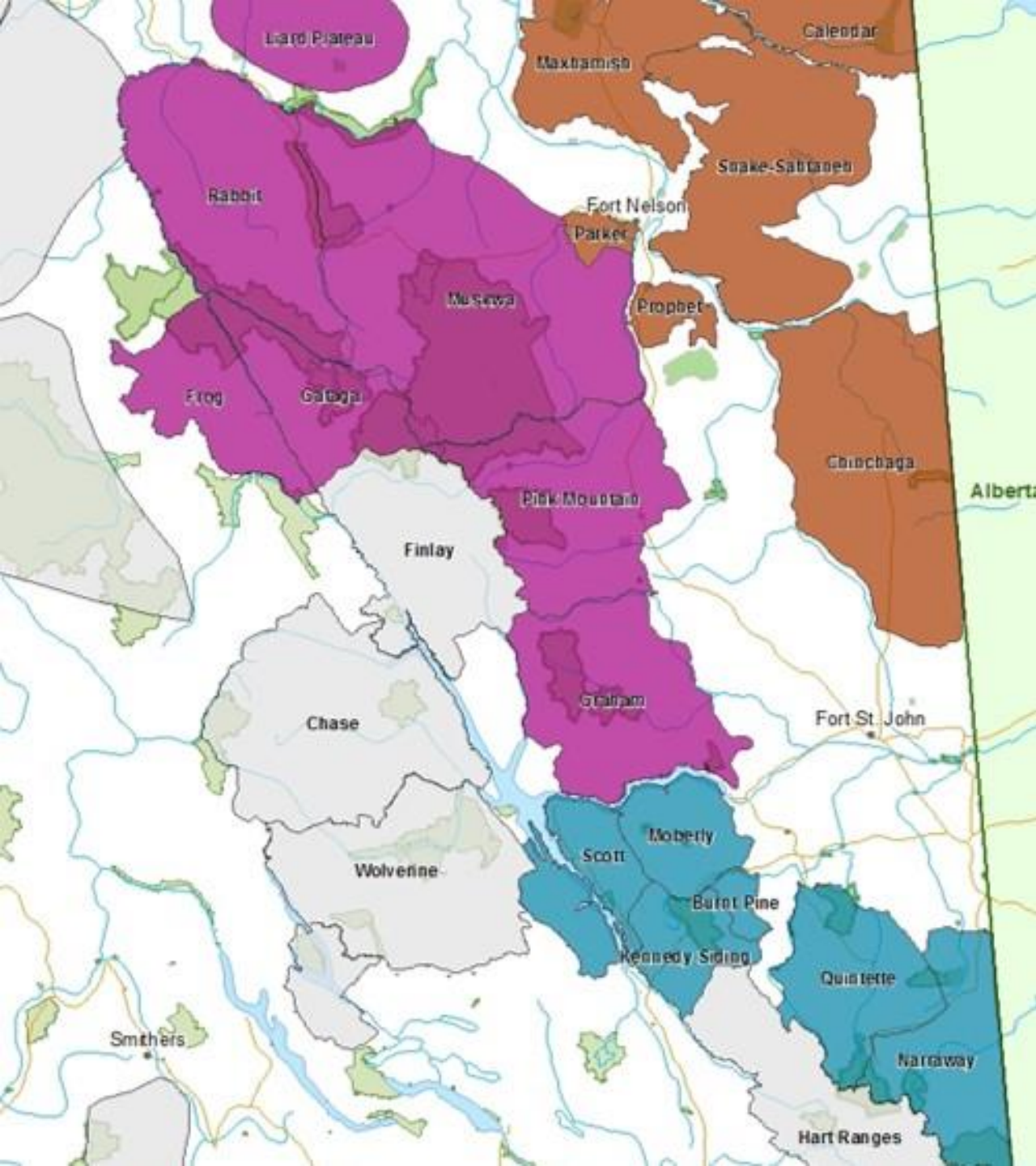
NE Restoration Planning & Implementation

- Quintette Strategic Action Plan
- Tactical plan completed for South Peace Northern Caribou
- Caribou Habitat Restoration Framework for Boreal Caribou
 - Spatial identification of high priority sites in BCPRP
- Partnerships
 - SERNbc, Fort Nelson First Nation, ABMI, West Moberly FN, Sauteau FN



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Quintette Range Restoration



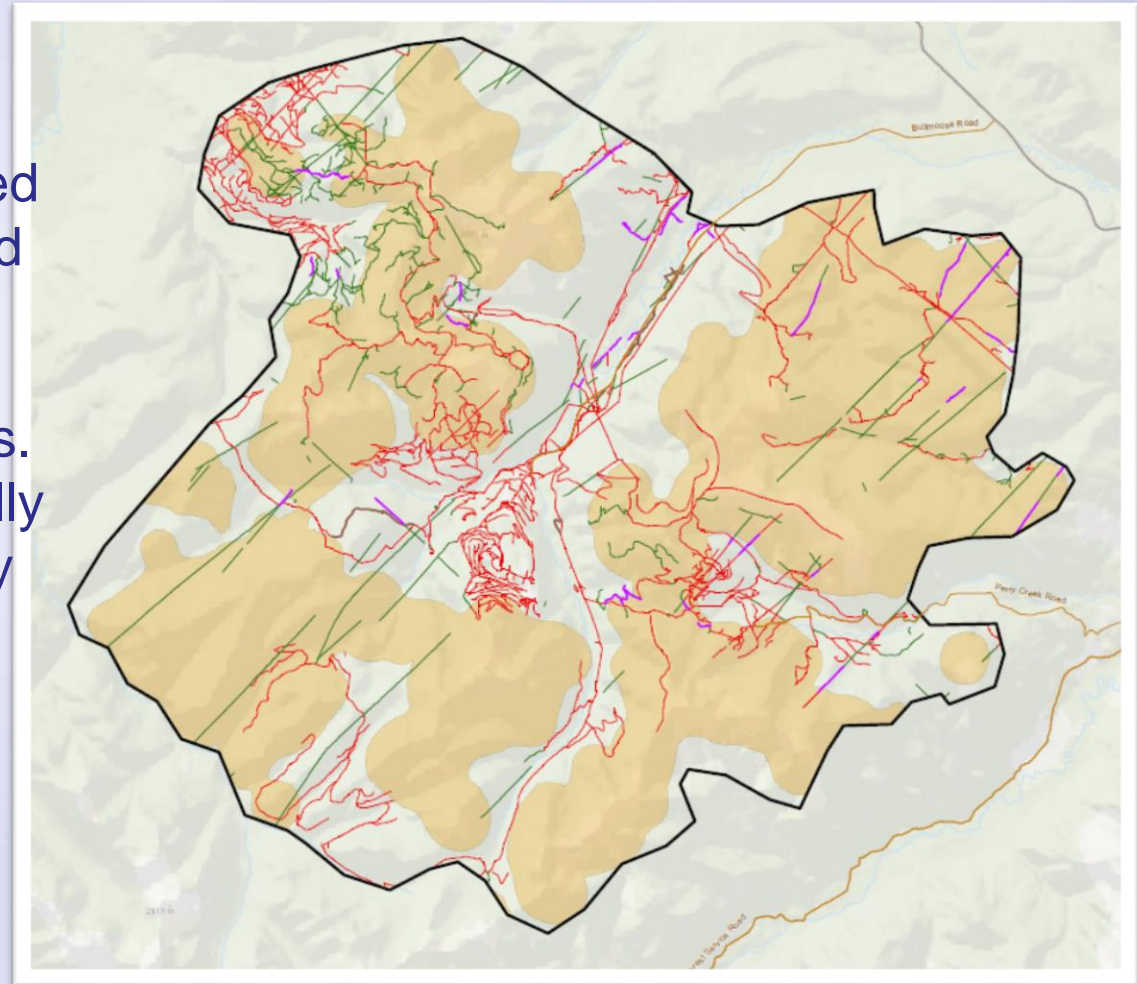
Project Overview

- Phase 1 (2017): High level disturbance inventory for all of Quintette
- Phase 2 (2018/19): Site level plan and implementation in priority area
 - Priority area: Mt. Speiker/Bullmoose area chosen for caribou values, protections in place, availability of features
 - Study area a mix of elevations and ecotypes, indicative of mid-lower elevation habitat in Quintette.



Quintette Habitat Restoration project

- Treatment candidates determined based on veg characteristics and engagement
- ~39 km of linear disturbance identified as treatment candidates.
- ~220 km of disturbance is naturally revegetating on 30 year trajectory (75% of potential treatment lines)
- ~490 km of disturbance is under tenure or actively used





Implementation

- ~39 km planned for treatment
- Minor site preparation conducted summer 2018
- Remainder site prep and tree felling early June 2019
- Tree planting late June 2019
- Monitoring program ongoing



Implementation

Total of ~32.5 km treated in total. Combination of functional and ecological treatments:

- Site prep: Machine Screefing, road ripping
 - 3.04 km/ 2.24 ha
- Tree felling: cluster falling every 5 m, 200 m segments
 - 25.78 km/ 19.42 ha
- Tree planting: mixture of pine, spruce, fir, alder. Target density of 1,400 stems/ha conifer, 700 stems/ha alder
 - 10.87 km/ 7.30 ha/ ~29,000 seedlings



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Costs

Funds provided by Forest Enhancement Society and PNCP
Offset funding.

- Planning costs: \$156,000 contract with Golder
- Implementation costs:

Activity	Km	Ha	Cost
Site Prep	3.04	2.24	Included below
Tree Felling	25.78	19.42	\$100,407
Seedlings	(29,846)		\$71,754
Planting	10.87	7.30	\$108,000
Total	32.5	29.4	\$280,162



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Costs

- Total costs to date: \$436,000
- Costs/km (including planning): **\$13,415**
- Implementation costs/km: **\$8,620**

Prime contractors:

- Site Prep and tree felling: Duz Cho Construction
- Seedling Nursery: Twin Sisters Native Plant Nursery
- Tree Planting: Tree Time Ltd.
- Oversight/supervision: SERNbc



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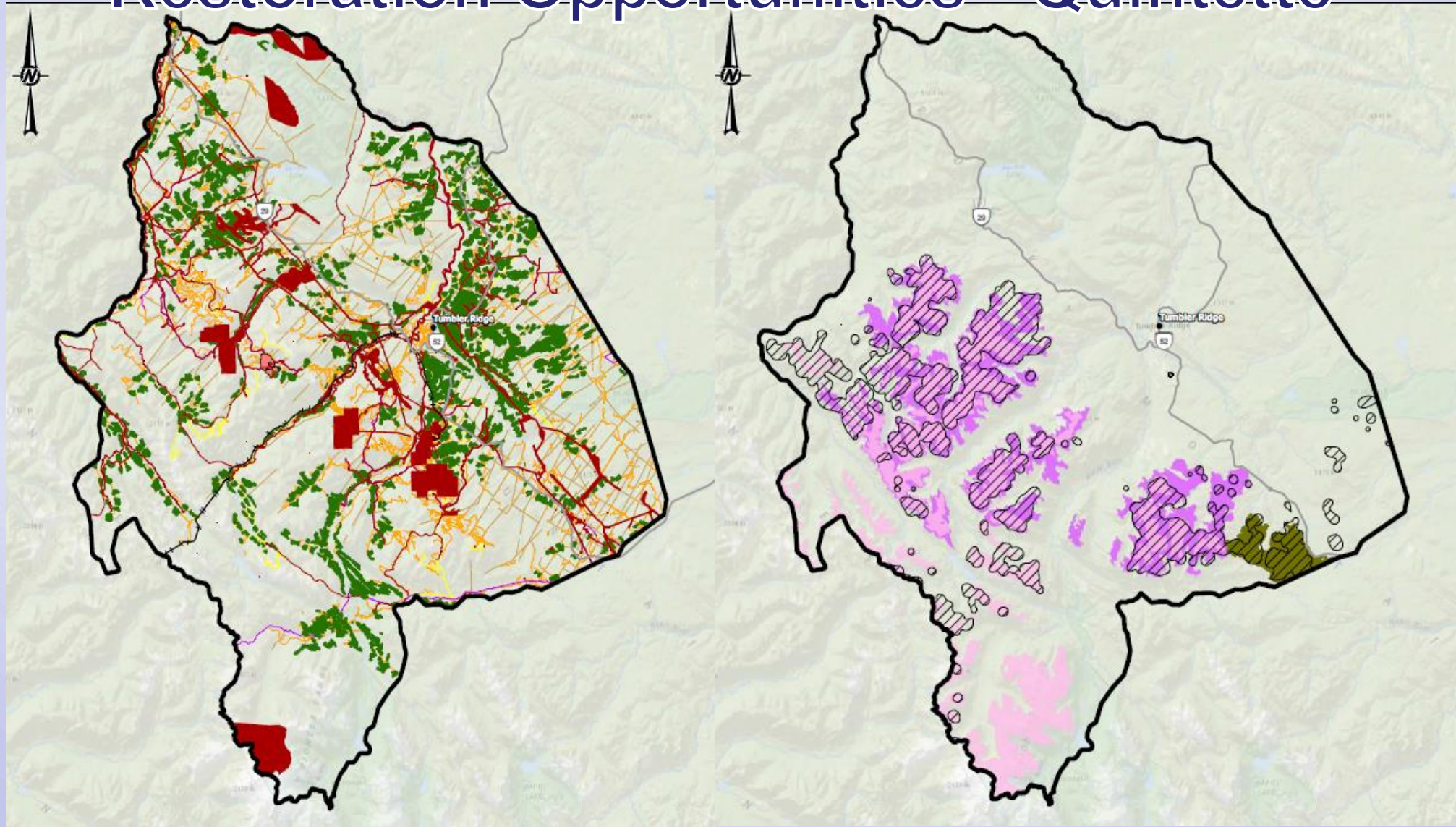
- Questions?





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Restoration Opportunities - Quintette



BC Caribou Recovery

Q and A



BC Caribou Recovery

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