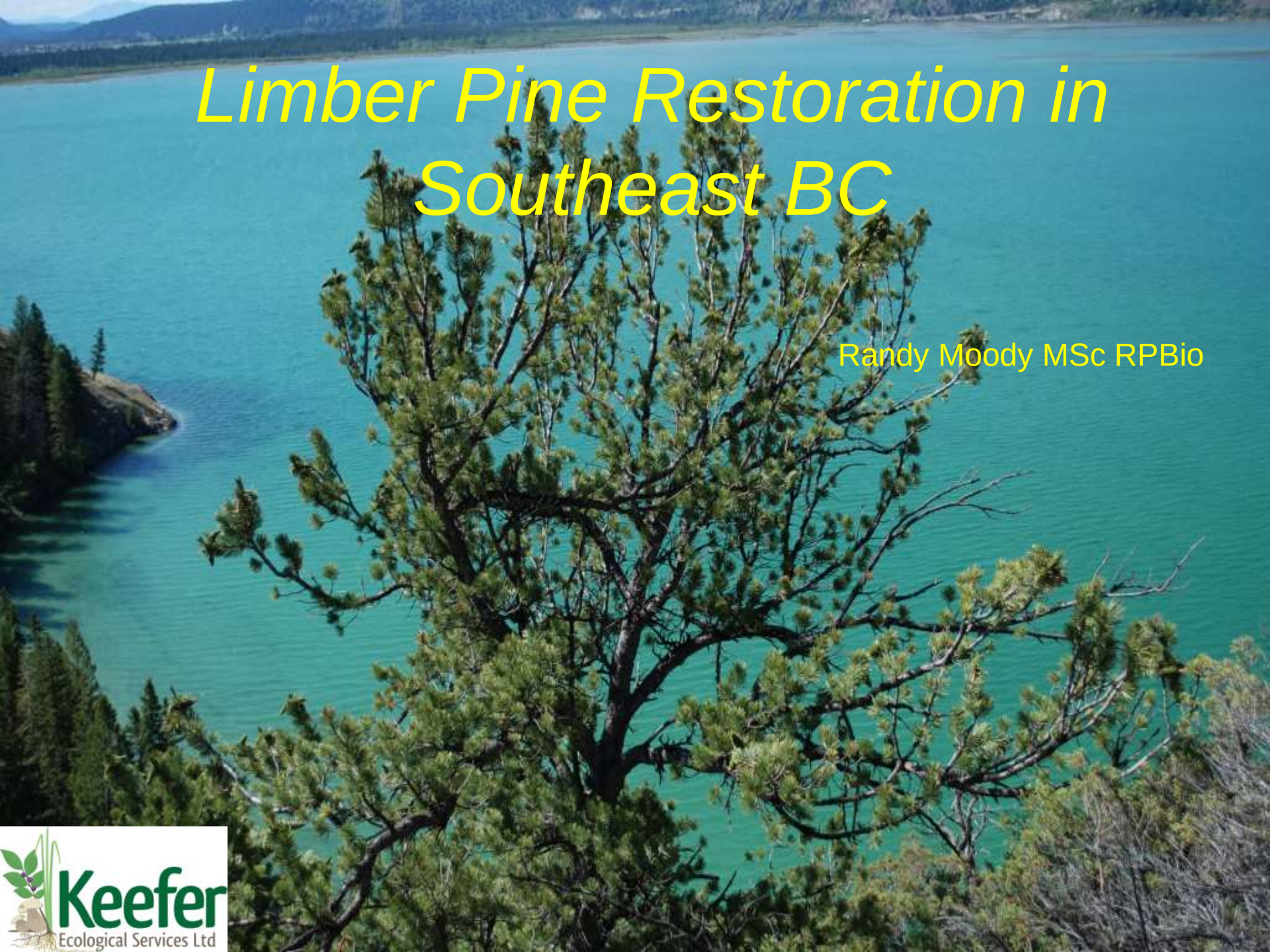
Limber Pine Restoration in Southeast BC

Randy Moody MSc RPBio



Keefer Ecological Services Ltd

Why Restoration?

Why Restoration?

Blue Listed in BC

Why Restoration?

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- Mountain Pine Beetle

Why Restoration?

Blue Listed in BC

- **Mountain Pine Beetle**
- **White Pine Blister Rust**

Why Restoration?

Blue Listed in BC

- Mountain Pine Beetle
- White Pine Blister Rust
- Development

Burmis Tree
Limber Pine

Project Objectives

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- **To enhance recruitment of limber pine;**

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- To enhance recruitment of limber pine;
- To document and map occurrences of limber pine;

Project Objectives

- To enhance recruitment of limber pine;
- To document and map occurrences of limber pine;
- To raise awareness and disseminate information regarding limber pine.

Limber Pine Biology

Limber Pine Biology

Cyndi Smith

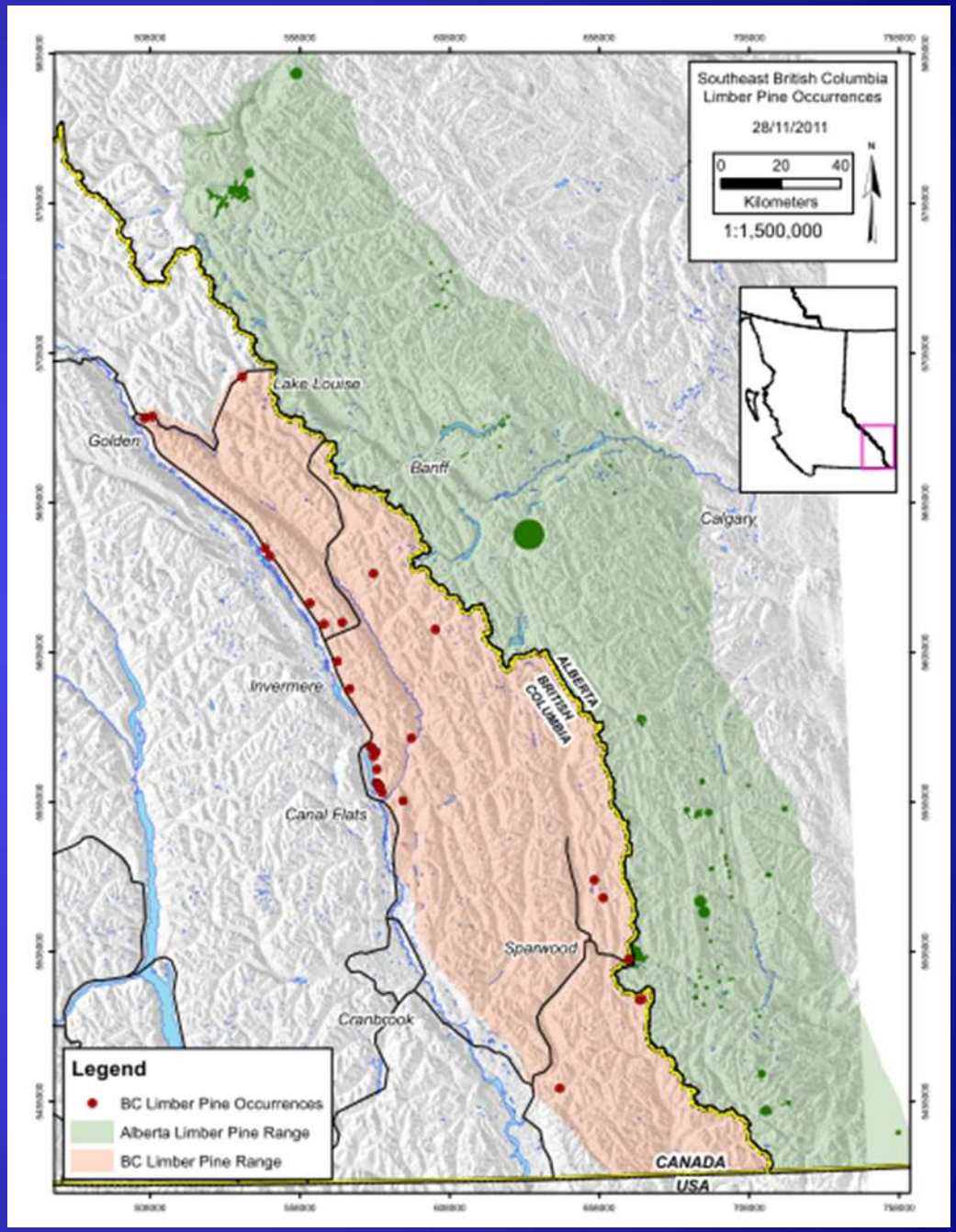
Limber Pine Biology

Calcareous Soils

Limber Pine Biology

Limestone Cliffs

Range Map


Southeast British Columbia
Limber Pine Occurrences
28/11/2011
0 20 40
Kilometers
1:1,500,000
N
Lake Louise
Golden
Banff
Calgary
Invermere
ALBERTA
BRITISH COLUMBIA
Canal Flats
Spanwood
Cranbrook
Legend
BC Limber Pine Occurrences
Alberta Limber Pine Range
BC Limber Pine Range
CANADA
USA

Methods

- **Conduct surveys of limber pine stands;**

Methods

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- Collect seed from limber pines for seedling production;

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- Identify new populations;

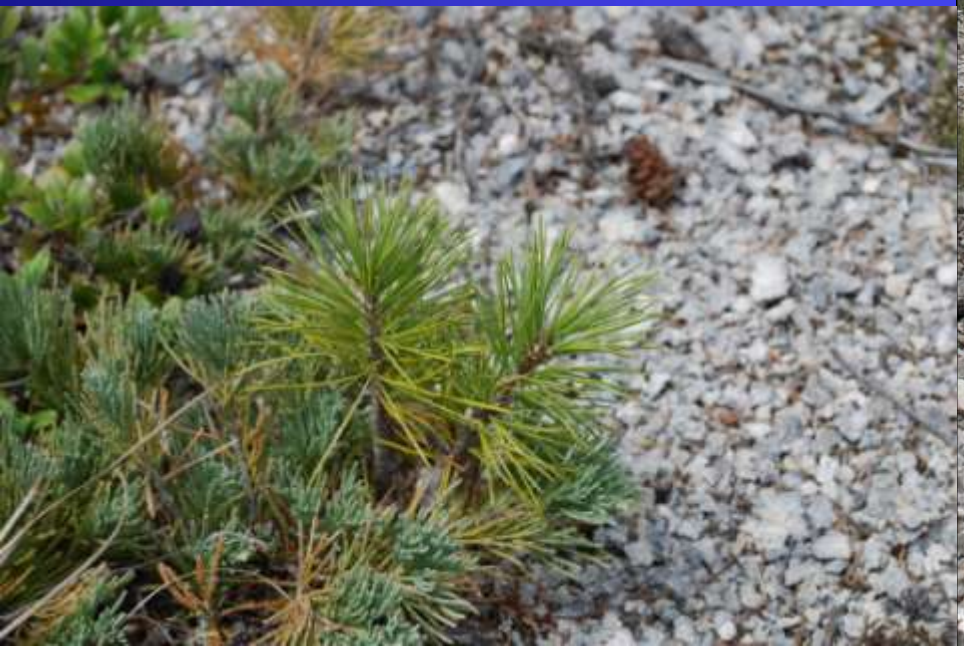
Methods

- Conduct surveys of limber pine stands;
- Collect seed from limber pines for seedling production;
- Identify new populations;
- Produce brochures and conduct outreach.

Results

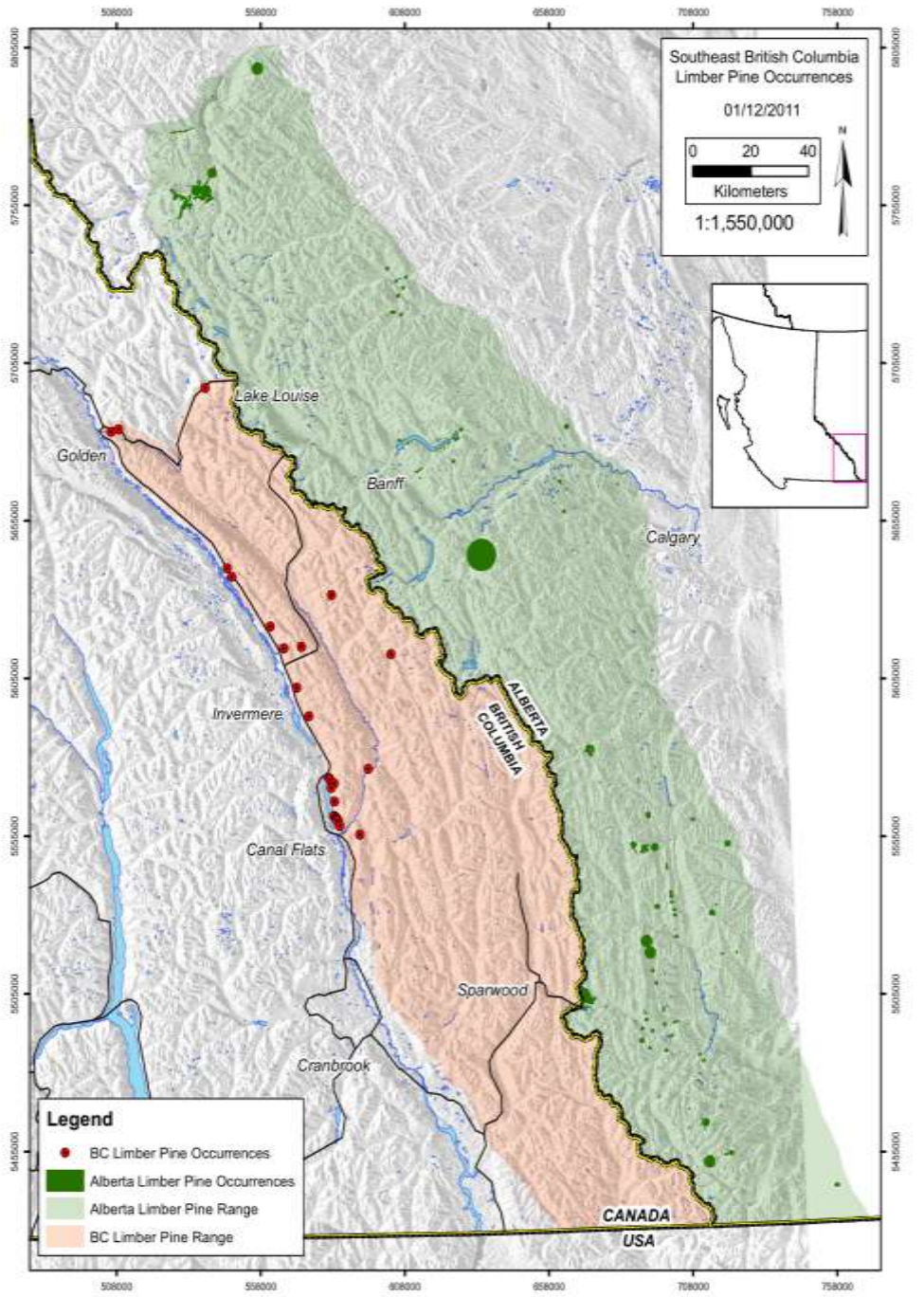
Results

- Conduct surveys of limber pine stands
  - >90% of populations >2m in height
  - Poor recruitment



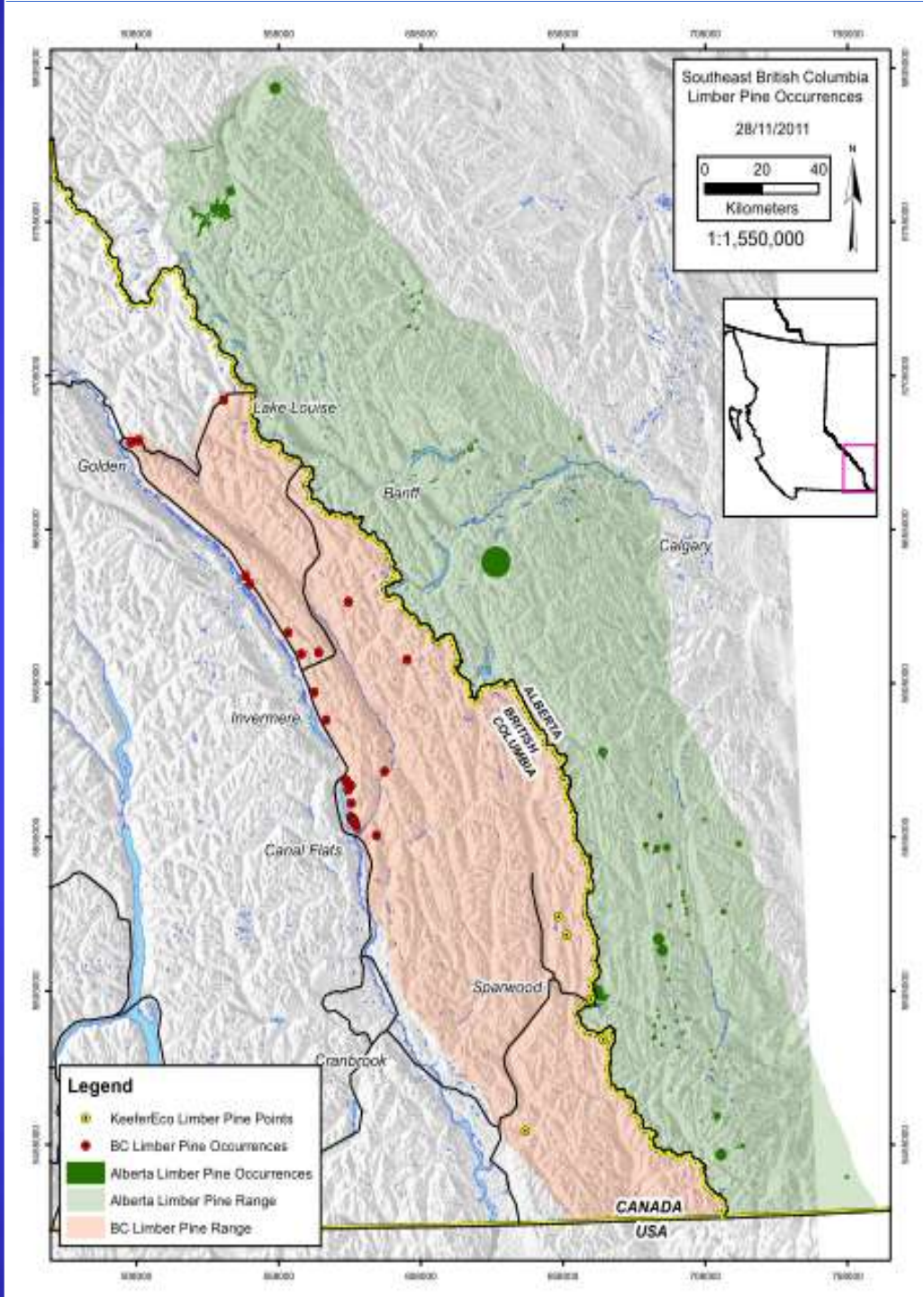
Results

- **Identify new populations.**



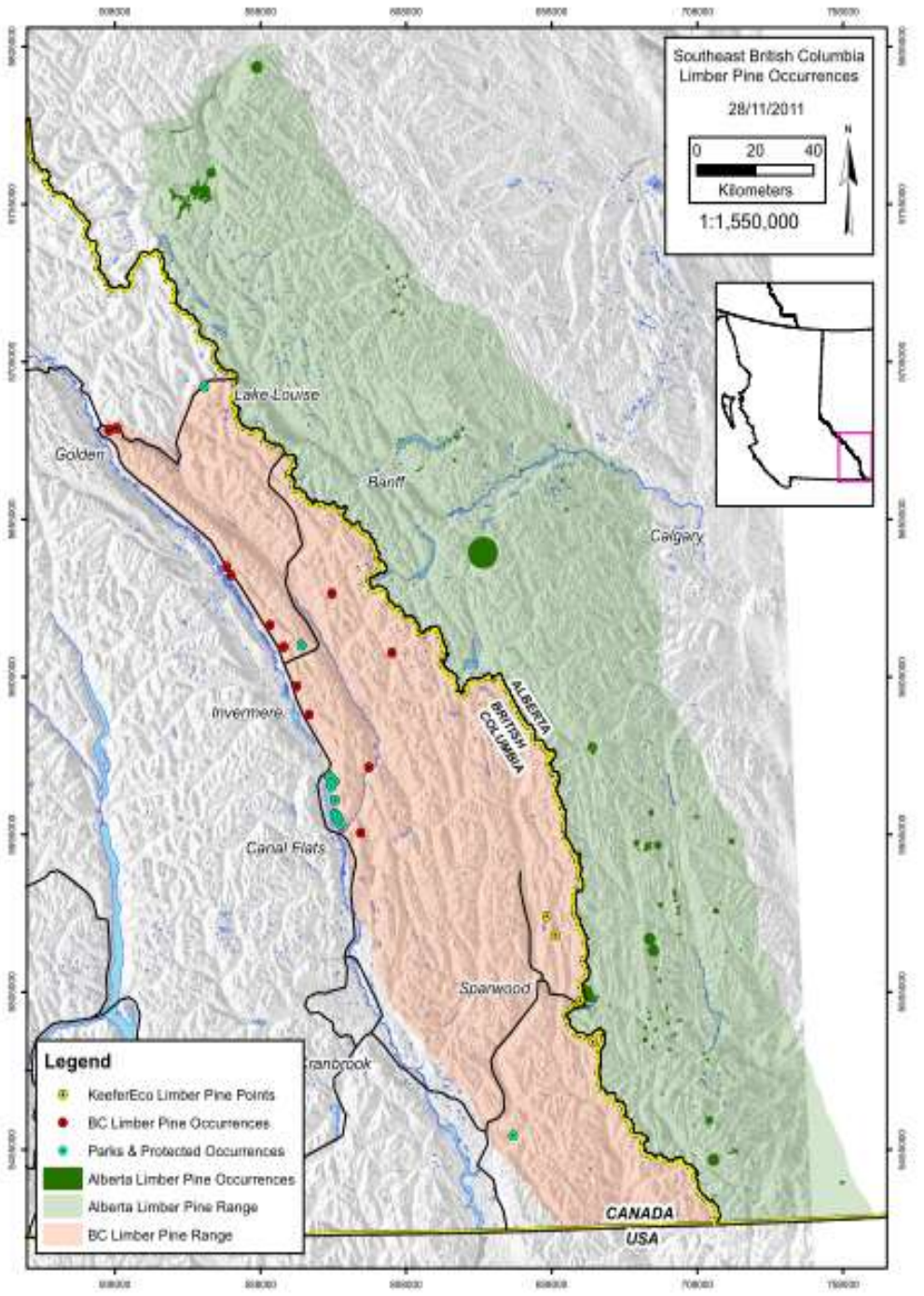
Results

- **Five new populations in SE BC**



Results

- **Limber Pine in protected areas is by chance**



Results

- Collecting seed from parent trees

Results

- Collecting seed from parent trees
  - Four Populations

Results

- **Seedling Propagation**

Results

- ~ 5,000 seedlings in production

Results

- **Volunteer Planting**

Results

- **Volunteer Planting**

Results

- **Brochure Production**

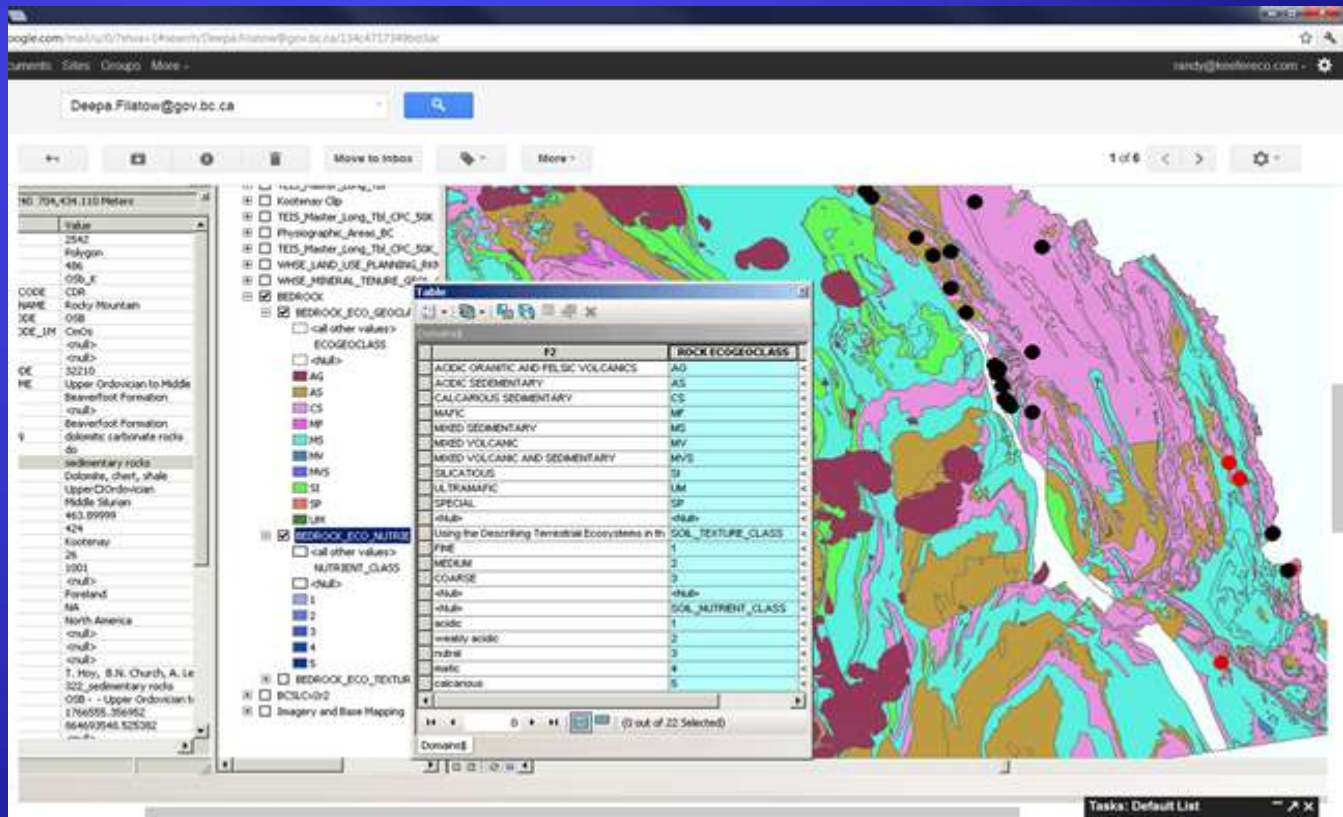
The Future

The Future

- **Continue Identifying New Populations**

The Future

- **Continue Identifying New Populations**
  - **Bedrock Approach**

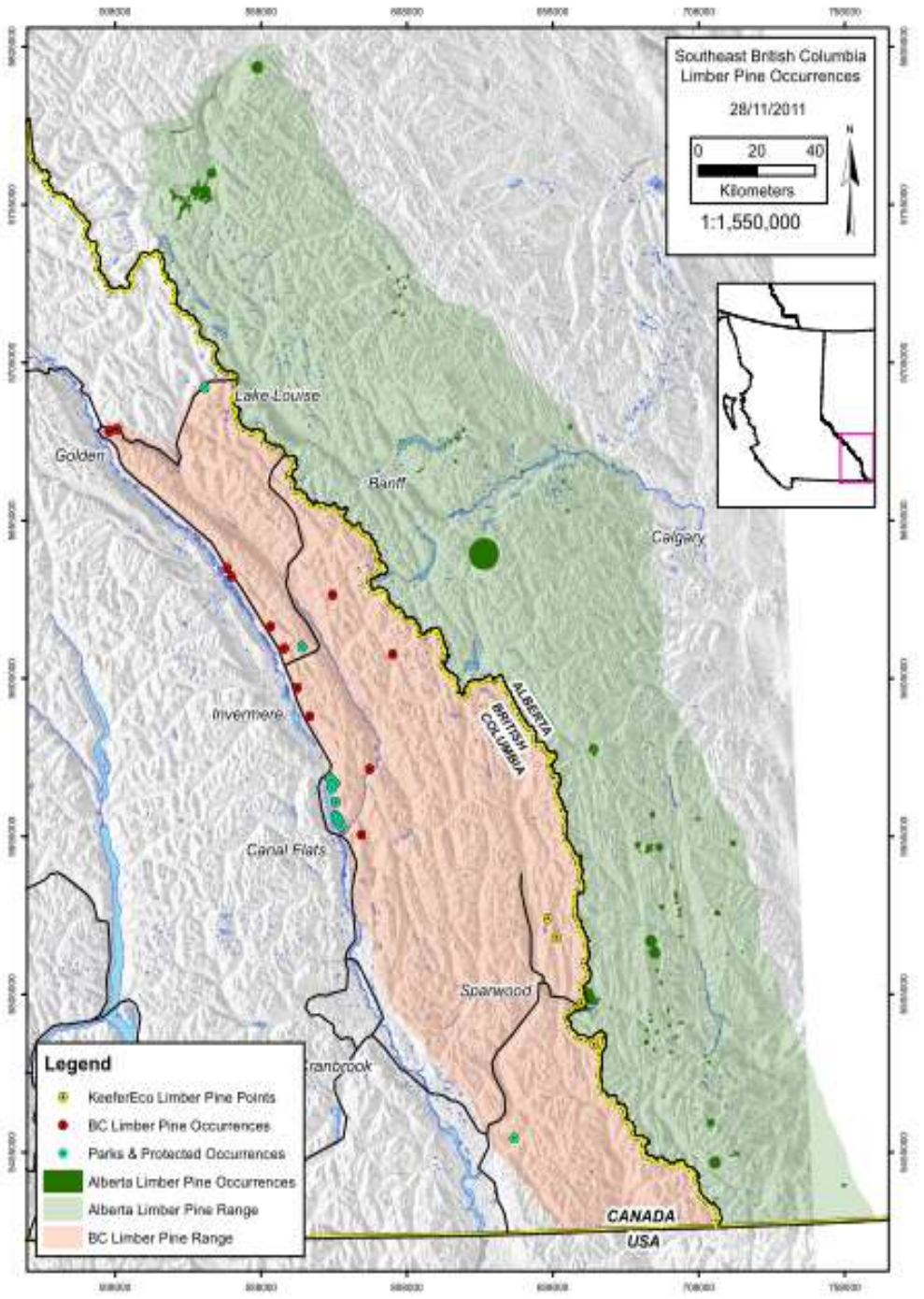


The Future

- **Seed Collections**

The Future

- **Identify Restoration Sites**



The Future

- **Outreach and Restoration**

Keefer Ecological Services Ltd

COLUMBIA BASIN TRUST
a legacy for the people

Yellow Point Propagation

Local Conservation Fund