

## **Foothills Stream Crossing Program**

- 1. Objectives
- 2. Current Membership
- 3. Progress with regulators
- 4. 2011 Field Season
- 5. Watershed Priorities

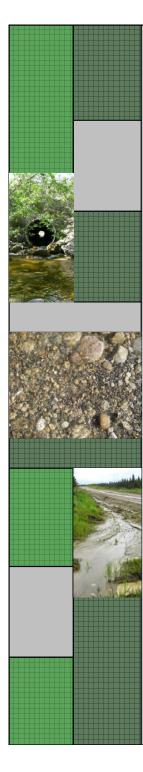


## Current membership (crossing owners)

TALISMAN

- □ Apache
- □ Canfor
- **CN** (inactive)
- CNRL
- ConocoPhillips
- **Devon**
- Hinton Wood Products, West Fraser Mills
- Talisman Energy
- **Tourmaline**
- Shell Canada (including Duvernay)

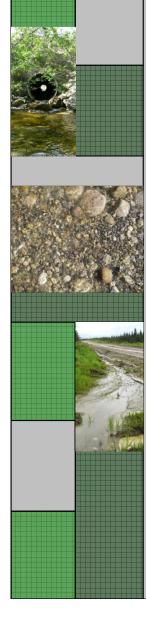




## Current membership (support)

- Fisheries and Ocean Canada
- □ ASRD Public Land and Forests
- □ ASRD Fish and Wildlife
- Alberta Environment
- Foothills Research Institute
- Alberta Conservation Association

## Summary of Progress with Local SRD



•Meetings and workshops between SRD, Environment, DFO, industry and the FSCP to resolve outstanding issues and to try to move the process ahead regarding the inspection of crossings and remediation

•Attempts to align the work of the FSCP and SRD's Foothills Watershed Remediation Pilot Project while keeping in mind the Enhanced Approval Process and avoiding duplication

#### **Outstanding Issues**

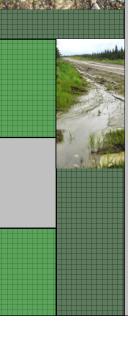


Submitting actual inspection data upon request from SRD (only for the purpose of conducting audits of the actual inspections).

The differences in the two manuals (our inspection manual and protocols are more detailed and thorough than SRD and more suited for what we are trying to do).

Remediation plan format

Still need to come up with common watershed boundaries



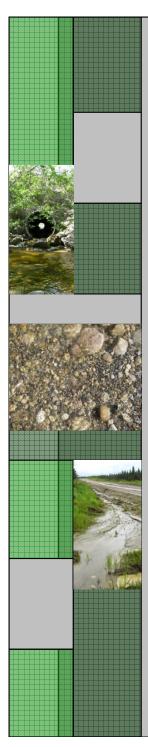
#### **Outstanding Issues (con't)**

Establishing priorities for watershed remediation (agreed to work on this jointly at the last meeting, but regulators made it clear this is mostly their responsibility).

Approval process (times lines for submitting remediation plans and getting feedback and "approval" from the regulators)

Audit process (SRD agreed to come up with some protocols around their audits as opposed to the ad hoc way they have been conducted previously).

How to handle erosion and sedimentation (and really ongoing road maintenance) issues (we need to submit a proposal).



### **Differences Between Inspection Protocol**

•Ultimately very similar outcomes

Gov't Protocols	FSCP Protocols
Stream Classification -Colluvial Fluvial	Added to FSCP protocols
Erosion -Yes/No/Potential -Extent – Low/High (Based on inspector's judgment)	Rated high, medium, low (Based on measurements and inspector's judgment)
Fish Classification -Salmonids vs. Non salmonids	Ratings high or low based on non salmonids
Structure Data - Limited to crossing type and culvert diameter	Assessments conducted on structural problems at site



## **Remediation Plan Updates**

#### **Remediation Plan**

				Leg	al Lo	ailot		UTM Coordinates		Contract of			Deb			Cro	ssing
Disposition No.	Crossing	Owner	Twp	Rgo	Mor	Sec	QS	Easing	Nonhing	Colluvial or Fulluvial	Fish Prob. Raving	Fish Species	Passage Risk Rating	Erosion Risk Rating	Year Inspecied	Туре	Size (m)

Seream Class (as per COP) R
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Stream Class (as per COP)	Timing Restrictions	Summary of Curronx Problems (Recommon darions)	Proposed Remediation	Timing	In Setoam Activity (Y or N	

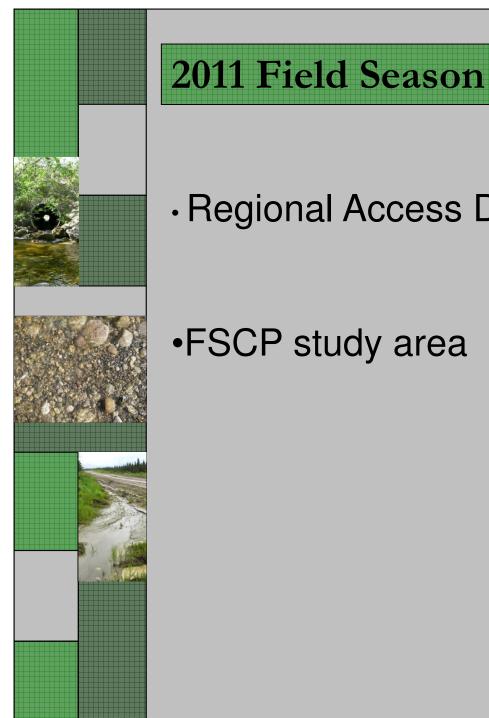


#### Removed

- Work completed (moved to separate update form)
- Removed sedimentation remediation
- Added
  - •Colluvial/Fluvial
  - •Risk Ratings

#### **Remediation Plan Update**

				Leg	al Loc	ation		Collected			Firsh			Cro	pssing
Disposition No.	Crossing	Owner	Тур	Rge	Mor	Sec	QS	Colluvial or Fulluvial	Fish Prob. Rating	Pating Fish Species	ish Species Passage Risk Rating	Erosion Risk Rating	Year Inspected	Туре	Size (m)
Summary of		oblems from Last Inspec mendations)	tions						Wo	rk Completed			Date	In	Next



### Regional Access Development Plan

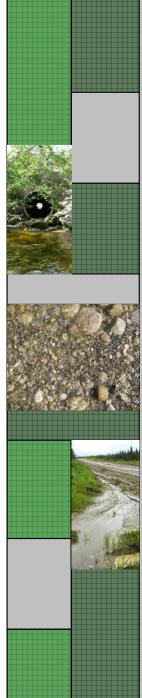
•FSCP study area



#### Forest Management Agreement Areas ANC Timber Ltd. Canadian Forest Products Ltd. Millar Western Forest Products Ltd. West Fraser Mills Ltd. (Hinton) Weyerhaeuser Company Limited (Grande Prairie) **Grande Prairie** Caribou Zone Whitecourt Grande Cache Edson Hinton Jasper



# Study Area

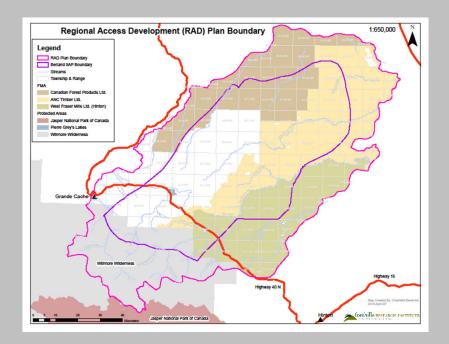


	2011
Company	Inspections
ANC	17
Aseniwuche	0
CNRL	124
Canfor	87
Conoco	104
Devon	49
EnCana*	34
FFP	102
Husky*	7
Paramount	12
Shell	33
Suncor	12
Talisman	53
Tourmaline	26
TransCanPipeline	0
Weyerhauser	0
West Fraser	122
TOTALS	777

RAD Plan

•2 crews operating out of Grande Cache

#### •1000 crossings total



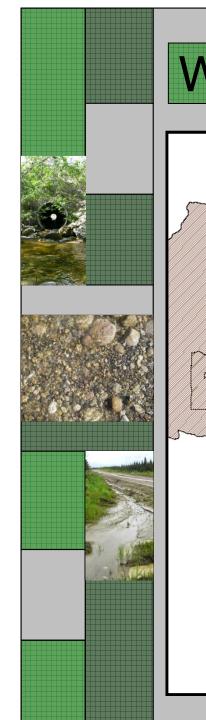




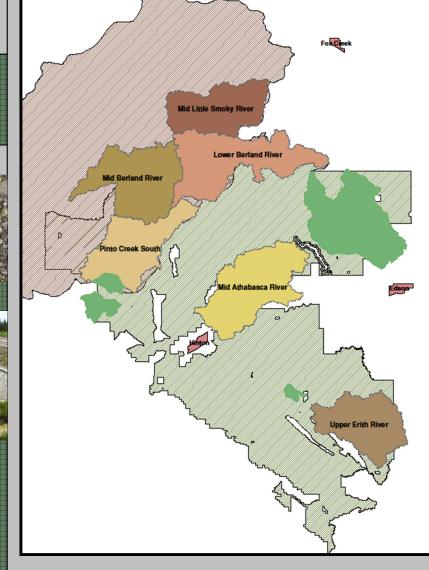
#### **ReInspections** Initial Company Apache 32 13 CNRL 21 25 ConocoPhillips 33 6 Devon 0 EnCana\* 4 4 Husky\* 23 Paramount\* 3 0 23 Shell 17 Talisman 23 5 Tourmaline 20 5 29 West Fraser $\mathbf{0}$ 126 165 Total

FSCP Study Area

Total = 291 \* *Potential members*  • 1 crew based in Hinton

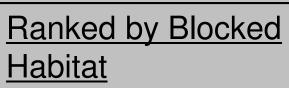


# Watershed Priorities



#### SRD Priorities

- 1. Lower Berland
- 2. Pinto Creek South
- 3. Mid Berland
- 4. Mid Athabasca
- 5. Mid Little Smoky

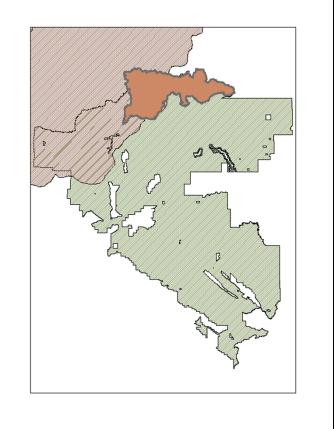


- 1. Lower Berland
- 2. Mid Athabasca
- 3. Mid Little Smoky
- 4. Pinto Creek South
- 5. Mid Berland

## Lower Berland

- 34 km of blocked habitat
- •FSCP has inspected 66 crossings
- •West Fraser has a total of 58 crossings
- •17 companies in watershed

Non Inspected Crossings	
Member Crossings	72
Potential Members*	31
Non Members	36
Total	139



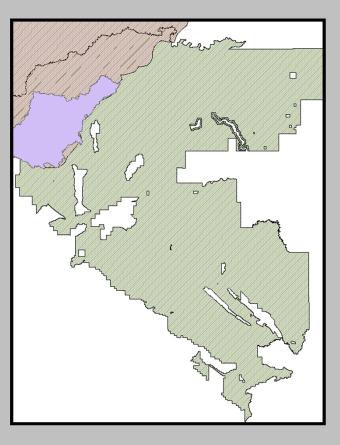
\* Encana, Apache, and Husky

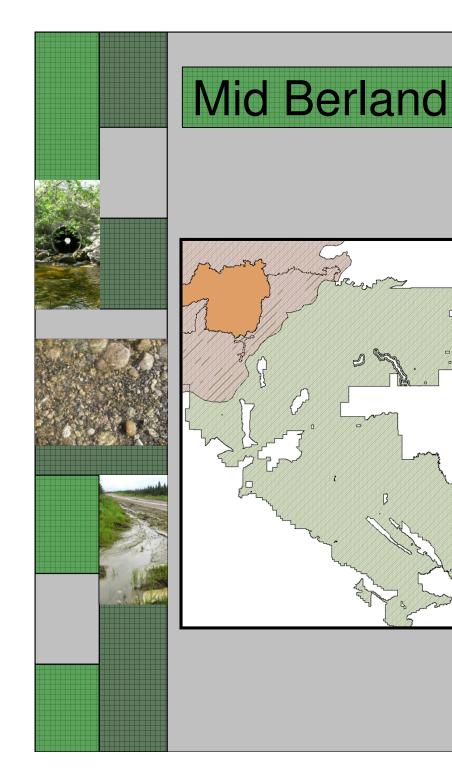


### Pinto Creek South

- 22 km of blocked habitat
- •FSCP has inspected 31 crossings
- •West Fraser has a total of 107 crossings
- •9 companies in watershed

Non Inspected Crossings	
Member Crossings	13
Potential Members*	0
Non Members	15
Total	28

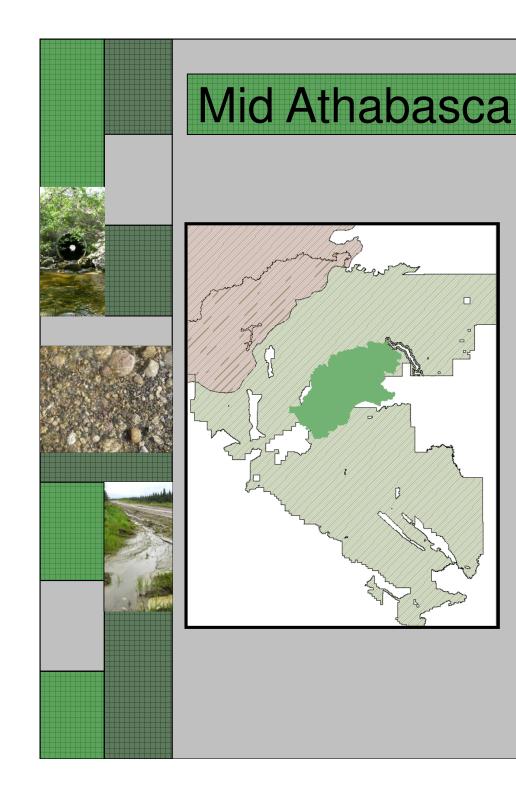




- 15 km of blocked habitat
- •FSCP has inspected 17 crossings
- •West Fraser has a total of 53 crossings
- •13 companies in watershed

Non Inspected Crossings	
Member Crossings	47
Potential Members*	2
Non Members	26
Total	75

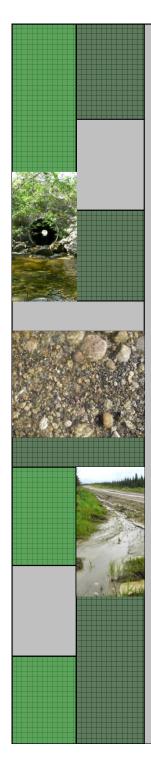
\* Husky



- 23 km of blocked habitat
- •FSCP has inspected 18 crossings
- •West Fraser has a total of 104 crossings
- •19 companies in watershed

Non Inspected Crossings	
Member Crossings	25
Potential Members*	6
Non Members	79
Total	110

\* Husky

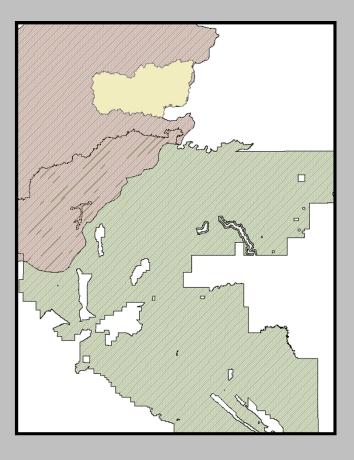


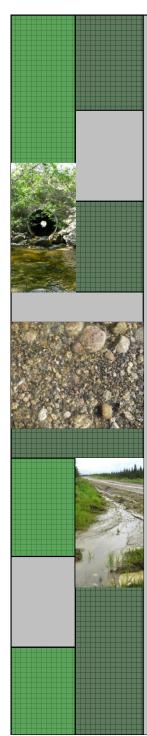
# Mid Little Smoky

- 22 km of blocked habitat
- •FSCP has inspected 25 crossings
- •11 companies in watershed

Non Inspected Crossings	
Member Crossings	25
Potential Members*	6
Non Members	79
Total	110

\* EnCana, Apache, Husky





# Moving the process forward.....

- Dealing with non-members crossings
  - do we continue to inspect?
- Establishing priorities for remediation
  - need to maximize benefits for dollars spent
  - **Relationship with regulators** 
    - a cooperative approach is desirable
    - Foothills Watershed Remediation Pilot Project
    - Enhanced Approval Process
- Handling sedimentation/erosion problems
  - to be decoupled from fish passage issues?

