



Foothills Stream Crossing Program

AGM June 17, 2009



Goal

- “...to help companies and crossing owners manage stream crossings in the long term...”



Objectives

- ❑ **Develop an industry-driven approach**
- ❑ **Establish a standardized stream crossing inspection process and protocols**
- ❑ **Establish a system to identify priorities for maintenance and replacement**
- ❑ **Improve the quality or performance of stream crossings**
- ❑ **Monitor results**



Current membership (crossing owners)

- ❑ BP Canada
- ❑ CN (inactive)
- ❑ CNRL
- ❑ ConocoPhillips
- ❑ Devon
- ❑ Hinton Wood Products, West Fraser Mills
- ❑ Imperial Resources (Esso)
- ❑ Petro Canada
- ❑ Suncor Energy
- ❑ Talisman Energy
- ❑ 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 Chamber of Resources
- ❑ Alberta Conservation Association
- ❑ Alberta Transportation



Overall Progress to Date

- ❑ **2005 – First official meeting; Developed and approved Stream Crossing Inspections Manual**
- ❑ **2006 – Completed just over 300 field inspections; summarized results for the owners**
- ❑ **2007 – Updated manual and developed a collaborative watershed management strategy for two basins to test cooperative remediation process**





2008-2009 Major Projects

- ❑ Pilot watersheds
- ❑ GRS Demonstration Project
- ❑ Status of our Watersheds Mapping Project

Pilot Watersheds

- ❑ Submitted watershed remediation plans to ASRD and DFO
- ❑ Selected 4 additional high priority watersheds
 - Fred Creek
 - Doctor Creek
 - Bryan Creek
 - Wildhay Tributary
- ❑ Continue with the collection of baseline fish and habitat data



GRS Demo Project


- ❑ Received funding from DFO for the replacement of a fish barrier on Hardisty Creek
- ❑ Will showcase the new crossing technology with many environmental and economical advantages
- ❑ In partnership with FPI innovations
- ❑ Demonstration signs will be used to link other tour sites



Legend

- Roads
- Probability of Fish Capture
 - Low
 - Medium
 - High
- Hardisty Creek
- Robb Road
- MWP FMA
- Fish Captured
- No Fish Captured

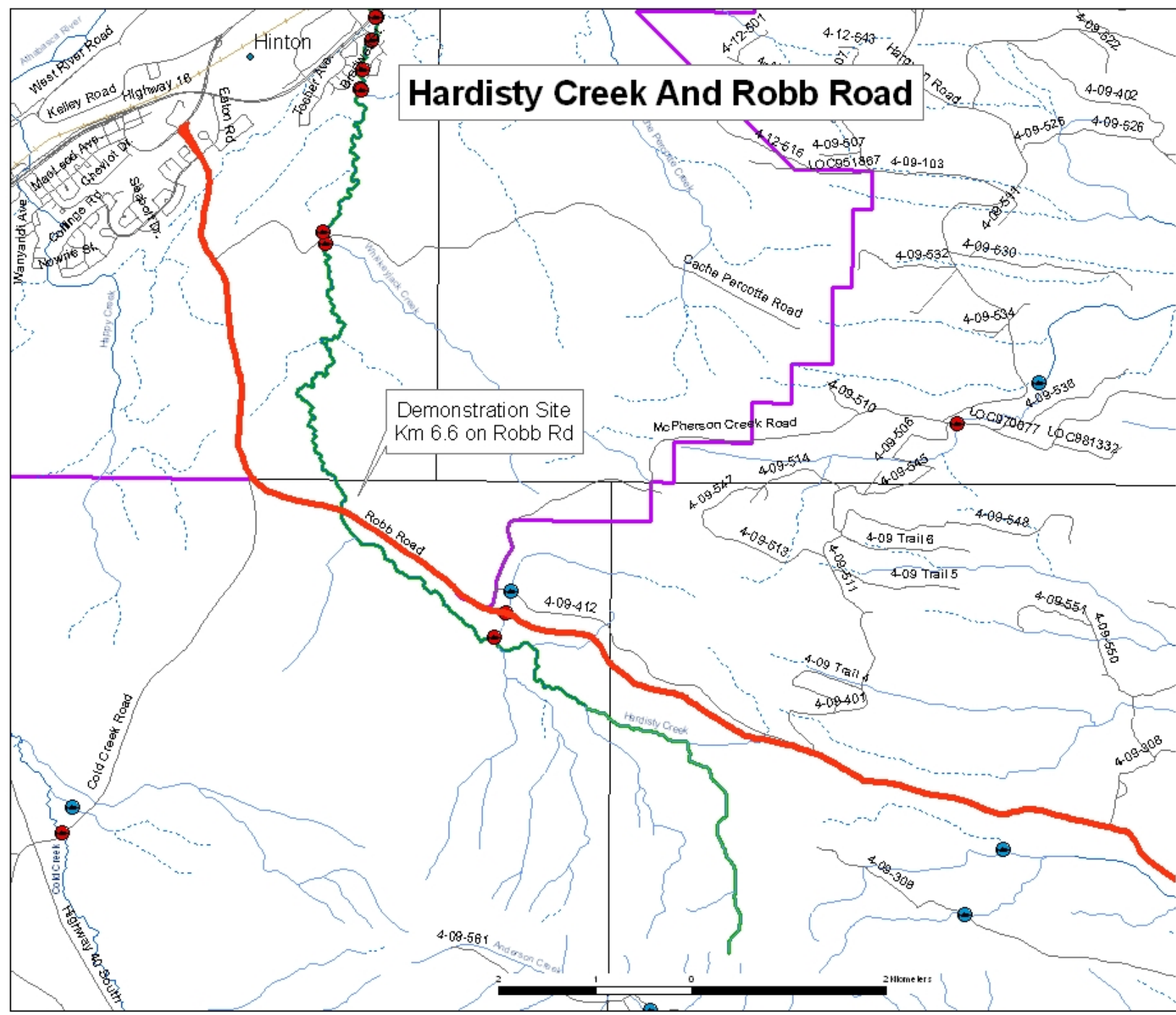
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Hardisty Creek And Robb Road

Demonstration Site
 Km 6.6 on Robb Rd



GRS Demo Project

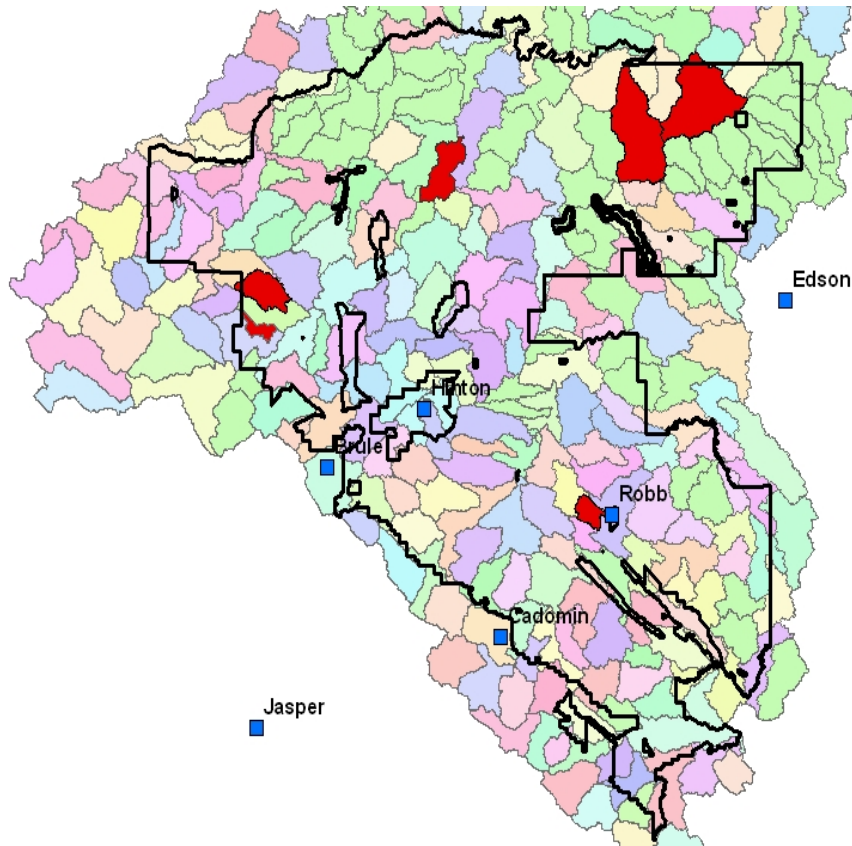
Geotextile Reinforced Structure



- ❑ Open bottom arch will make available 15km of fish habitat
- ❑ Reduce cost
- ❑ Using local materials reduces carbon footprint



Status of Our Watersheds Map



- display the status of watersheds based on fish habitat connectivity and sediment input
- provide up-to-date and easily accessible information on individual crossings
- In line with GIS geoconnections project



Problems / Concerns?

- ❑ How to get non-members on board, both industry and government?
- ❑ The magnitude of the problems including the number of crossings and the cost of remediation.
- ❑ The balance between industry driven solutions and being in compliance.



Summary

- ❑ Good example of “integration”
- ❑ Consistent with Water for Life Strategy
- ❑ Strong support and cooperation from industry, FRI, ASRD and DFO
- ❑ Results oriented and continuous improvement
- ❑ Potential to expand across Alberta





Thank you

