

WRIGLEY

Mackenzie River

Our vision for our river

To ~~stabilize~~ stabilize the riverbanks, to keep houses, infrastructure from landslide
- Airport infrastructure from erosion + landslide
- Monitor stations set up to record change in erosion
~~3000 (WLU)~~
permafrost melt likely cause erosion

• Fishing or hunting drinking water source

Challenges + Barriers
- not enough info about erosion + potential landslide
- this workshop very informative
- people in the community have to lean hard on leadership to put the concern out to Govts + consultants to do assessments

Where we are today

- STEP 1
recognize the problem
- STEP 2
manage the threat
- STEP 3
gather / assess info
- STEP 4
evaluate options + plan
- STEP 5
take action

LOOKING FORWARD

* Monitor Stations
→ Role of Guardians

IDEAS

LOOKING FORWARD

CHALLENGES
&
BARRIERS

★ Monitor Stations
→ Role of Guardians
Study Permafrost

IDEAS
&
SOLUTIONS

Manage landslides

↳ Loading at top of bank

- Needs - ground staking
- view faults
- Study changes

Which study is required to start process?

Who do we involve?
Ex: NRC, MACA
→ private consultants?

• Planning meeting → Communicate with leadership

1) Community meeting to share ideas & solutions (quarterly)
→ present available options & resources
+ review cemetery location

Questions
&
Needs

Priorities
&
Next Steps

Erosion-related Considerations

- The community sits on a high terrace – the floor of an ancient channel
- Old landslide scar on 40 m-high slope along Mackenzie River
- Uncontrolled surface drainage and erosion of the toe of slope can contribute to instabilities
- Heads of deep gullies are eroding toward airstrip
- Permafrost not known to be a key contributor to riverbank instability