

zie River

TULITA

MACKENZIE RIVER

OUR VISION FOR OUR RIVER

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)

Tulita
- Snow movement is
- riverbank
- erosion
- when snow melts
- permafrost change
- Needing permafrost
- mapping before
- community plans

Tulita
- Permafrost is
- shifting
- (above riverbank)
- some serious planning
- Permafrost - mapping
- Relocation of infrastructure
- Damp concrete
- extend roads
- cost great deal

Completed
Tulita
- drainage plan
- Highways, filling, building
- to extend closer
- Low level - walk across
- Great Bear River
- Sand bank depending
- homes at risk
- Tree stump near airport
- (12 miles)

Gravel erosion
on maintenance dr.
Next steps
- Securing funding
- Site assessment
- by area of
concern

LOOKING FORWARD

CHALLENGES
&
BARRIERS

• Capacity & resources
• Need for regulatory
permits
• Communication
• Incentives for
community
FUNDING
• No granular
material

• Permafrost
- final mapping
to
• SRRB - PF mapping
Report

IDEAS
+
SOLUTIONS

Local surrounding
area
- environmentally
sensitive
- therefore, future
development

What does a
geotechnical
investigation
- Cost
- time
- who is involved?
- how it does it
- soil

Questions
&
Needs

Priorities
&
Next Steps



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❑ STEP 1
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❑ STEP 4
(EVALUATE OPTIONS & PLAN)

❑ STEP 5
(TAKE ACTION)

Tulita
- snow movement to riverbank
- minimal flooding when snow moved
→ positive change

Needing permafrost mapping before community plan.

Tulita
- Permafrost + issues with tracks shifting (above riverbank)
- time sensitive planning

Permafrost → mapping
Relocation of infrastructure

Barge cancelled
- extend roads
→ Coast guard dock

Completed
Tulita ~~sediment~~ drainage plan

Highway, fishing, hunting
→ ice road closure.

Low level → walk across Great Bear River.

Sand bank expanding
- homes at risk

Tree slump near airport
Coal seams burning
- 12 miles

→ Graveyard erosion on Mackenzie dr.

Next steps
→ Securing funding
→ Site assessment...
↳ 2 areas of concern

LOOKING FORWARD

LOOKING FORWARD

CHALLENGES & BARRIERS

- Capacity & resources
- Real time → completing permits
- Communication → incentives for community

FUNDING

No granular material

IDEAS + SOLUTIONS

- Permafrost → final mapping to
- SRRB → PF Mapping Report

Zoned surrounding areas
→ as environmentally sensitive
→ present/future development

What does a geotechnical investigation

... Cost
time
who is involved?
↳ what does it entail

Questions ? Needs

Benetite
→ Solution?
→ tension cracks

Reinforce pond to stop erosion

Involve Partners
Contractors Local org.

Priorities & Next Steps