

NAHANNI BUTTE

South Nahanni
+ Liard
Rivers

Our vision for our river

Utilize for tourism
- strong connection to
- riparian habitat
- trail for better access
- challenges with bike
- trails and water crossing
- late tracking & monitoring

Integrated community planning
Use that erosion action plan to
inform Capital Plan, Emergency
Response Plan, Land Use Plan,
Strategic Plan etc.

90% indigenous
2% salmon
- hunting
- harvesting
Swamp point

2021/2022
- flooding in past
- housing development
- safer area
- (higher elevation)
- no rap proposed to
- protect key area
- food storage, hotel
- put off
- high water causing
erosion

Where are we 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

What is needed?
- Funding
- Bridge over Liard River
- Riprap surrounding of
slope on S. Nahanni
River
- New Band Office &
store in new location
(higher elevation)
- Detailed design of
rip rap slope project
- Study on flood & erosion study
(soil, log, log)
- Logging & implementation
of drainage plan

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LOOKING FORWARD

CHALLENGES
&
BARRIERS

Learn from other communities & how
they are solving challenges related to
the Liard river. What lessons can they
teach? How might we be inspired to find
solutions?

IDEAS
&
SOLUTIONS

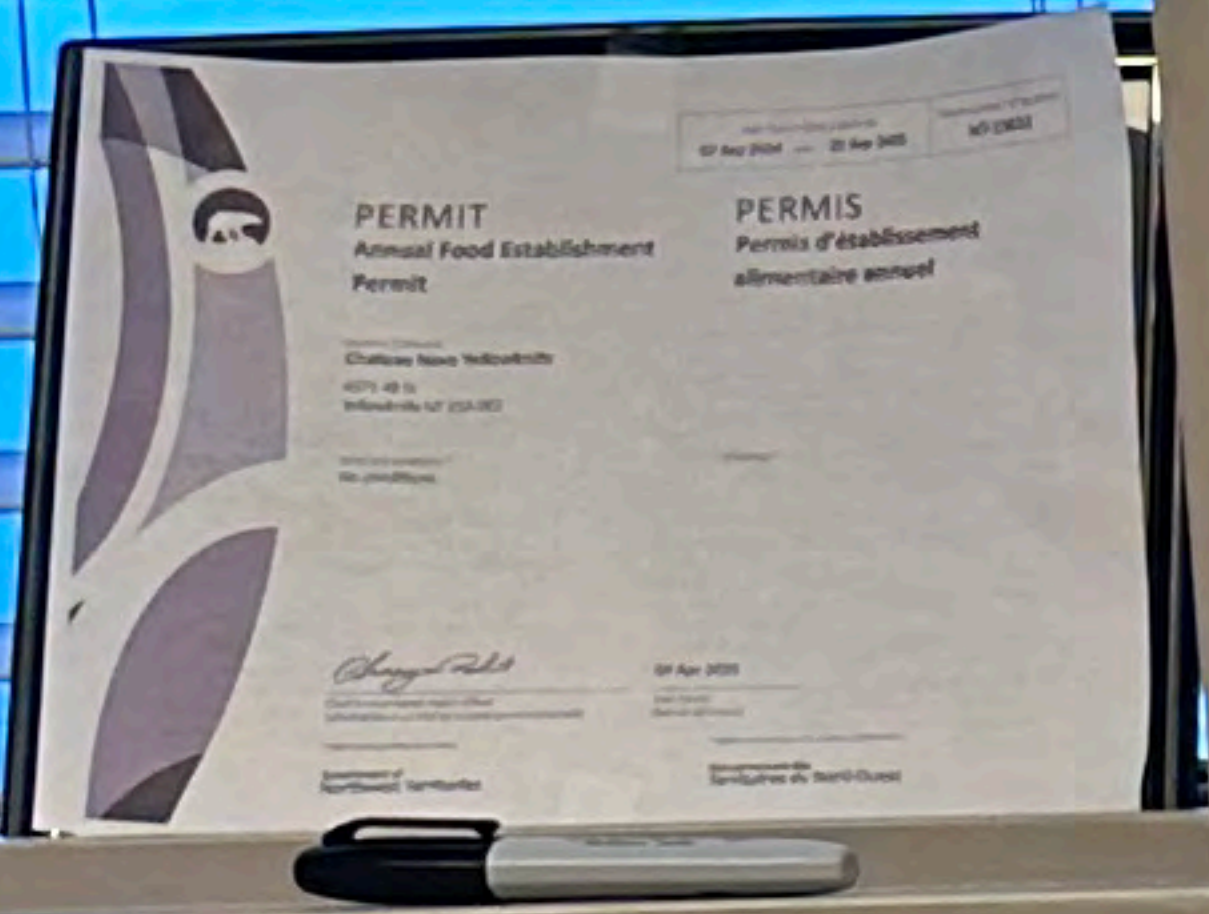
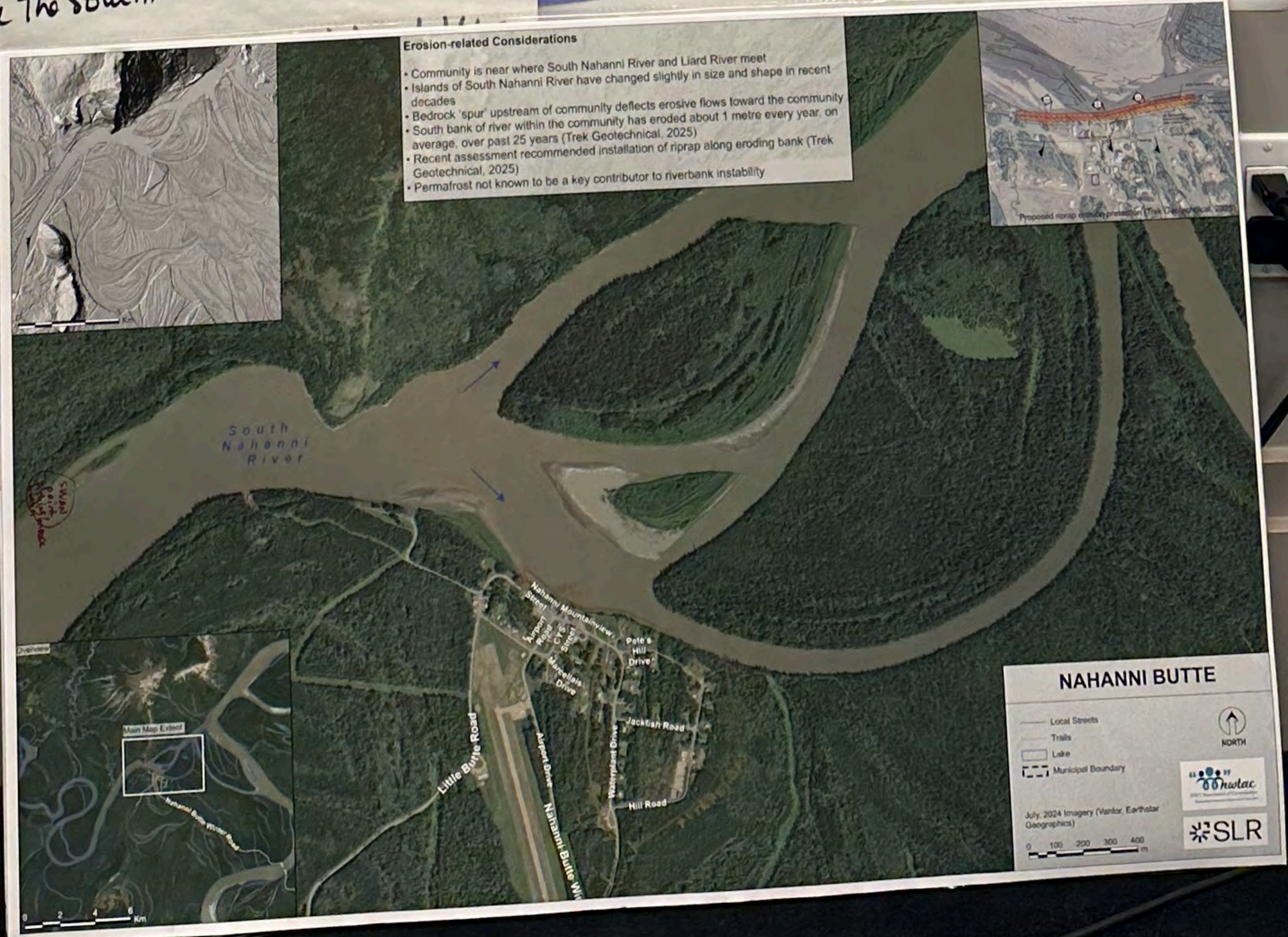
CHALLENGES
&
BARRIERS

Nahanni Butte

- o Funding a critical condition - be ready to move when it comes
- o Timeline for action
- o Engaging community members + their priorities
- o Consider tradeoffs ~ swap one risk for another (Flood vs fire)
~ lifespan of bldgs
~ building costs/logistics
- o Costs - O&M considerations
- timeline of solution sustainability
- are we just "delaying the inevitable"?)
- o Capacity to manage the solution
- o grading the slope
- o work near/in water
- o Nature-based S

Options
&
Needs

Priorities
&
Next Steps



NAHANNI BUTTE

South Nahanni
+ Liard
Rivers

Our vision for our river

- Utilize for tourism
- Strong connection for fishing, hunting, transport + traditional activities
- Need for bridge for access
- Challenges with low water and river crossing
- later freezing + earlier thaw

- Integrated community planning
- Use flood + erosion action plan to inform Capital Plan, Emergency Response Plan, Land Use Plan, Strategic Plan etc.

- 98% indigenous
2% Sohem (11)
2% Director

- hunting
- harvesting (1)
- Swan point

- 2021/2012
- flooding in past
 - housing development relocated to safer ~~area~~ area (higher elevation)
 - rip rap proposed to protect key area
 - food storage, hotel, post office
 - high water causing erosion (1)

Where are we 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

What is needed?

- Funding
- Bridge over Liard River
- Riprap armoring of slope on S. Nahanni River
- New Band Office + store in new location (higher elevation)
- Detailed design of Riprap slope project + other actions in flood + erosion study (costing)
- Updating + implementing of drainage plan

LOOKING FORWARD

STEP 5
take action

LOOKING FORWARD

CHALLENGES
&
BARRIERS

Learn from other communities + how they are addressing challenges related to river-bank erosion. What actions are they taking? How might this be adapted to MDDP?

IDEAS
&
SOLUTIONS

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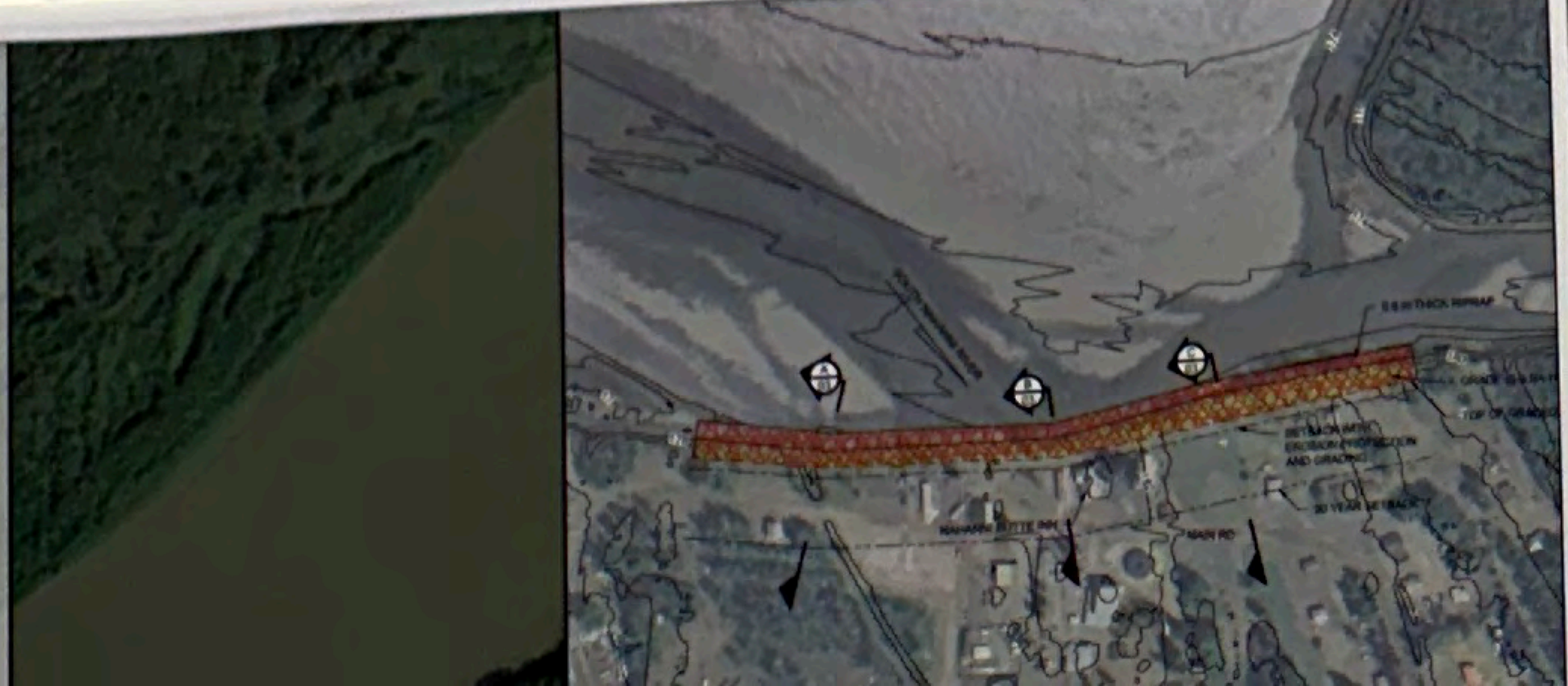
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Priorities
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Next Steps

Erosion-related Considerations

- Community is near where South Nahanni River and Liard River meet
- Islands of South Nahanni River have changed slightly in size and shape in recent decades
- Bedrock 'spur' upstream of community deflects erosive flows toward the community
- South bank of river within the community has eroded about 1 metre every year, on average, over past 25 years (Trek Geotechnical, 2025)
- Recent assessment recommended installation of riprap along eroding bank (Trek Geotechnical, 2025)



Nahanni Bulletin

- Funding a critical condition — be ready to move when it comes
- Timeline for action
- Engaging community members + their priorities
- Consider tradeoffs
 - ~ swap one risk for another (flood vs fire)
 - ~ lifespan of bldgs
 - ~ building costs / logistics
- Costs — O&M considerations
 - timeline of solution sustainability
 - are we just "delaying the inevitable"?
- Capacity to manage the solution
- grading the slope? Not a good option $\left\{ \begin{array}{l} \text{distance to bldgs} \\ \text{impacts on water} \end{array} \right.$
- work near / in water \Rightarrow need DFO Auth
- Nature-based Solutions \rightarrow not enough time for effective vegetation to take hold.