

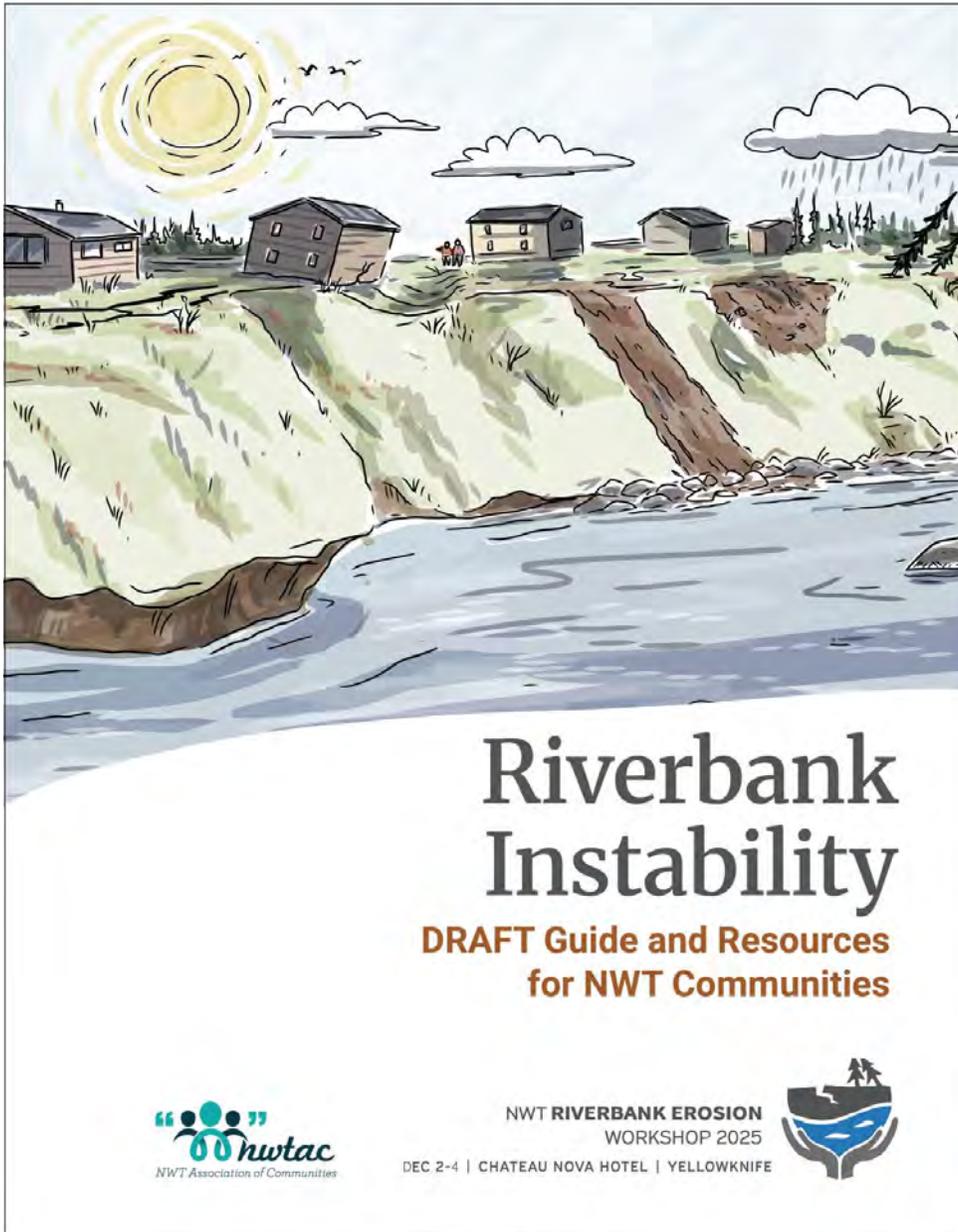


Introducing the Riverbank Instability DRAFT Guide and Resources for NWT Communities

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NWT
RIVERBANK EROSION
WORKSHOP 2025

DEC 2-4 | CHATEAU NOVA HOTEL | YELLOWKNIFE



- Preliminary DRAFT version
- 2 Parts
 - Guide: High level overview of steps
 - Resources : Chapters with additional detail
- We are seeking feedback
- Final version will be available on the NWTAC website

Why are we developing a Guide?



- Intended to be a neutral source of information
- There was a gap in support to communities on this issue
- Bring specialists together to discuss the challenges and solutions
- Create a network / community of practice (Partnership table)
 - Conversations with community, partnership table have helped to shape this guide



How was the Guide Developed?



- Federation of Canadian Municipalities Green Municipal Fund (Capacity Development Grant)
- NWTAC brought together a group of specialists in geomorphology, engineering, and community planning with extensive experience in NWT.
- Alison McCreesh worked with the team to develop the illustrations.
- Guide and Resources are DRAFT and we are seeking your feedback



Riverbank Instability DRAFT Guide and Resources for NWT Communities



Introduction to the DRAFT

Riverbank Instability: A Draft Guide for Communities



1 Recognize the Problem

- Identify what's at risk
- Observe changes
- Gather local knowledge
- Watch for warning signs
- Understand the causes



2 Manage the Threat Right Away

- Keep people and assets safe
- Communicate with the community
- Seek expert advice
- Monitor regularly
- Use short-term fixes
- Plan what you will do if things get worse quickly



3 Gather and Assess Initial Information

- Work with qualified experts
- Gather and review the right data
- Do field checks
- Get an assessment report
- Think about next steps



4 Evaluation Options and Make a Plan

- Compare solutions with technical specialists
- Talk with your community
- Understand what approvals you will need and what funding is available
- Make a decision and a plan



5 Take Action

- Put the plan into action
- Give the river space
- Take direction action on the riverbank
- Reinforce/protect structure
- Make the connection to community planning



Keep monitoring

- Track and document changes
- Identify and address new risks
- Measure how well your actions are working



1. Recognize the Problem



- Understanding what riverbank instability is and what causes it
- Know how to understand the processes occurring in your communities
- Riverbank change is natural and may be further affected by climate change

2. Manage the Threat Right Away



- **Dealing with riverbank instability in the short-term**
- Ensure people (and assets) are safe
- Monitor the site
- Short-term solutions
- Risk mitigation
- Emergency response

3. Gather and Assess Initial Information



- **Evaluating riverbank instability**
- Preliminary Assessment
- Support from specialists
- Developing a scope of work and working with consultants

4. Evaluate Options and Make a Plan



- **Assessing Option to Address Riverbank Instability**
- Decision-making processes and frameworks
- Work with community and specialists
- Identifying and considering criteria to guide your decisions
- Action planning
- Communications

5. Take Action



Most actions fall into one or more of the following categories:



Giving the River Space



Addressing the Issue



Protecting Structures



Today's focus

Recognize the Problem

- Case study in Nahanni Butte
- River behaviour
- Reading the River