



Line 21 Little Smith Creek Maintenance Project

To ensure the continued safe, reliable and environmentally responsible operation of the Norman Wells Pipeline, Enbridge will be seeking regulatory approval to replace a small segment of the pipeline in the Little Smith Creek area southeast of Tulita, Northwest Territories.

Project Scope

Enbridge operates Line 21 (the Norman Wells Pipeline), which carries crude oil 870 kilometres (km) from Norman Wells, Northwest Territories to Zama, Alberta, where it enters a third-party pipeline system and is sent on to Edmonton.

Pipelines are designed to pass through geographically diverse areas including slopes and riverbanks. Enbridge manages these areas by identifying, inspecting,

monitoring and—where necessary—remediating slopes where ground movement could impact safe operation of the pipeline.

Recent engineering assessments indicate slope movement in the Little Smith Creek area, approximately 67 km southeast of the Hamlet of Tulita. To avoid any potential future impact to Line 21 from the encroaching bank of the creek, Enbridge is proposing to replace an approximately 500-metre (1,640-foot) segment of Line 21 by Horizontal Directional Drilling (HDD) with the old pipe being physically removed. The segment replacement would be installed at an approximate depth of 45 meters (147 feet) below the ground surface.

To accommodate the proposed scope-of-work and the workforce, Enbridge would require the mobilization and set-up of a temporary work camp in the area. It is estimated this camp will provide food and lodging for up to 80 people.

Once this new segment is placed into service, the existing pipe segment would be isolated and removed from service in accordance with Canadian Energy Regulator (CER) requirements. This would include:

- Removing the vast majority of crude oil from the pipeline with specially designed cleaning instruments.
- Wiping and cleaning the pipeline, using a combination of cleaning instruments and cleaning solution.
- Physically disconnecting the pipeline and sealing it off from active operational facilities, such as pump stations.

In order to conduct this essential maintenance, Enbridge will apply to the Sahtu Land and Water Board (for a Type-A Land Use Permit and a Type-B Water License) and notify the CER.

Community and Indigenous Engagement

Since the fall of 2018, Enbridge has been engaging with local and Indigenous communities, landowners and interested parties who may be impacted by the proposed Little Smith Creek Maintenance Project.

We have held, and will continue to hold, meetings with Indigenous communities regarding the project, and be in contact through phone calls, update letters, informal meetings, and site and aerial tours.

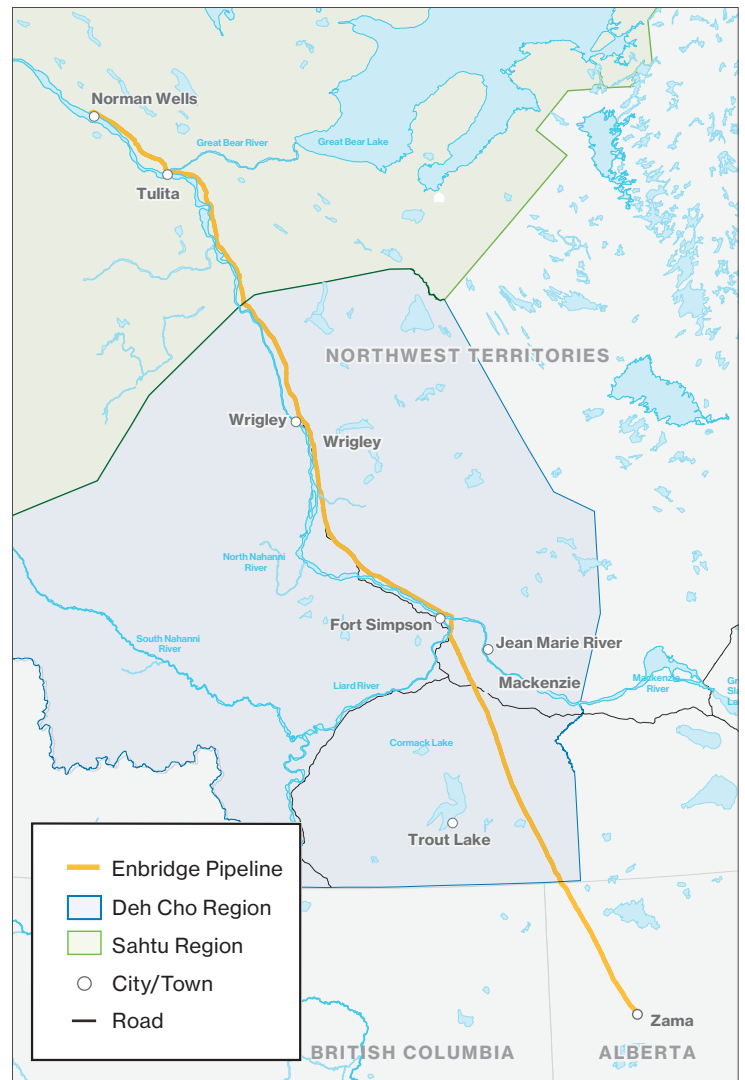
Enbridge has a long history of partnering with businesses that are owned and operated by Indigenous peoples and we are committed to conducting business with neighboring communities to maximize local economic benefit. We also encourage collaborative opportunities between Indigenous businesses and non-Indigenous businesses when it builds capacity and supports mutual business interests.

A Traditional Knowledge Study and environmental survey studies were conducted with the assistance of community members and Elders.

We look forward to continued dialogue, input and listening to community members during this process.

We want to hear from you

Enbridge welcomes any feedback, questions or concerns you may have about the proposed Line 21 Little Smith Creek Maintenance Project. Please call our toll-free line at **1-888-263-3654** or send an email to **athabascaprojects@enbridge.com**.



Preliminary Project Timeline*

Fall 2018 – ongoing	Community and Indigenous Consultation.
Winter 2020	Submit regulatory application.
Summer 2020	Pending regulatory approval, project startup (mobilize equipment, minor brushing activities, environmental assessments).
July 2020 to late August 2020	Delivery and set-up of camp by barge (the camp will be inoperative until January 2021).
January to March 2021	Camp is fully operational during this time to accommodate the main scope of work. The camp is hauled out on winter road as work becomes completed. Camp is fully removed before the end of March.
March to July 2021	Very limited to no activity.
July 2021 to August 2021	Remove barge landing and complete any final clean-up activities.
After August 2021	Monitoring of project area to determine if additional reclamation may be required in winter of 2021; and post construction environmental monitoring.

*Project timelines are subject to change