

# Line 21 – Winter 2021 Integrity Dig Program

Enbridge operates the Norman Wells Pipeline (Line 21), which carries crude oil 870 kilometers (km) from Norman Wells, Northwest Territories to Zama, Alberta. Enbridge provides an essential service across North America and communities depend on us to safely and reliably provide the energy they need to heat their homes and fuel their lives.

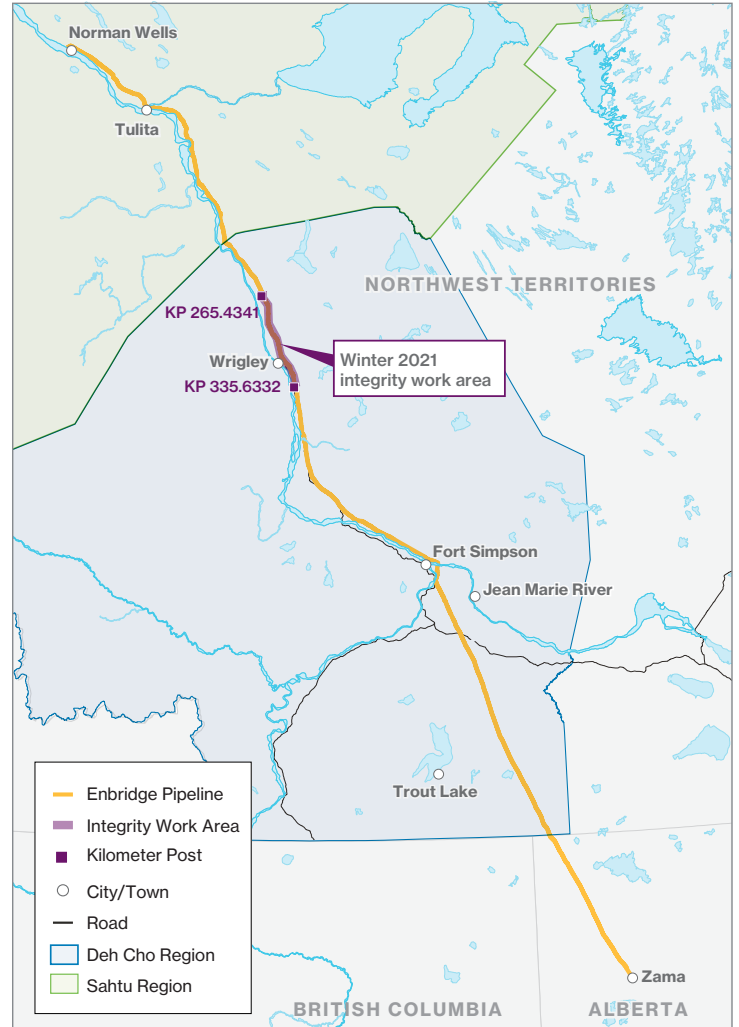
## Integrity Management Program

The goal of Enbridge's Integrity Management Program is to ensure the safety of our system and prevent incidents before they occur through ongoing maintenance of our operations. As part of this program, Enbridge conducts periodic in-line inspections to monitor the integrity of our pipelines. When data collected from these inspections meet criteria that requires Enbridge to take a closer look, we will excavate and assess the pipeline, and if necessary, conduct repairs. These excavations are often referred to as integrity digs.

## Upcoming Work in Your Community

In 2019-2020 an integrity program was launched to assess Line 21 using two in-line inspection tools – both featuring higher resolution imagery than previous tools used on Line 21. As a result of these inspections, Enbridge is planning to conduct up to seven integrity digs in the Dehcho Region between January – March of 2021 to assess the pipeline. All required integrity digs will occur on the existing Line 21 right-of-way (ROW), along a segment of pipeline that starts approximately 50 kilometers north of Wrigley at kilometer post (KP) 265 and ends approximately 20 kilometers south of Wrigley at KP 335.

This work will be executed with participation from the local communities. To accommodate work crews, Enbridge is planning to construct two temporary work camps, one at Fort Simpson and one at Wrigley. The camps are expected to be in use by the end of January and demobilized by mid-March 2021.



## Commitment to safe operations during COVID-19

Nothing is more important to Enbridge than the health and safety of your community members and our workers. We have developed a COVID-19 Northwest Territories Response Plan that details our COVID-19 Safe Work Protocols. We will follow all public health orders issued by the Chief Public Health Officer of the Government of Northwest Territories. In addition, Enbridge will be testing all workers using COVID-19 rapid test units, as described further below. The following measures will be in place to help prevent transmission of COVID-19.

## Non-territorial workers entering the Northwest Territories

Non-territorial workers will be kept to a minimum and will:

- Strictly adhere to the processes outlined in our COVID-19 Northwest Territories Response Plan and requirements of the Chief Public Health Officer.
- Be required to travel directly to the Fort Simpson work camp, and then from the camp to the work site. Only direct travel will be permitted between the two camps.
- Be subject to COVID-19 testing and must have negative test results prior to entry into the Northwest Territories. They will then be tested again within 1 week of arrival at camp.
- Be subject to COVID-19 testing again upon completion of work prior to travelling home.

## Managing COVID-19 at the worksite

- Qualified health professionals will conduct COVID-19 rapid testing for all workers upon arrival. As noted above, non-territorial workers will also be tested prior to entry into the Northwest Territories.
- Workers may be tested at any time if they are feeling unwell or exhibiting COVID-19 symptoms.
- All workers will undergo daily health screenings including temperature checks.
- Workers will be required to follow social distancing protocols and will be required to wear face covering masks when they are unable to socially distance.
- Workers will be required to practice enhanced hand hygiene, healthy respiratory practices, and enhanced disinfection procedures.
- Any worker who develops symptoms of COVID-19 will not be permitted access to the worksite and will be required to immediately self-isolate and comply with any directions of the Office of the Chief Public Health Officer.
- Camp facilities will be set up to accommodate the isolation of a worker with COVID-19 symptoms.
- Workers will be expected to remain at the camp for the duration of the project including periods of time off. Should a worker need to leave the camp or worksite, they will be tested for COVID-19 prior to departure.

## The Seven Steps of a Maintenance Dig

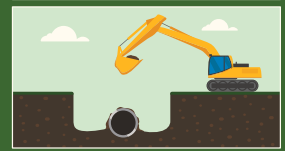
### 1 Marking the dig site

Temporary markers identify the access route and location of the excavation.



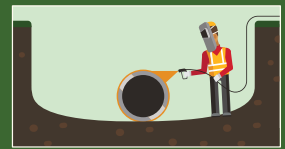
### 2 Excavation

Using machinery such as an excavator, the area is first stripped of topsoil, which is piled nearby. A hydrovac truck is used to dig small holes to expose the pipeline so that it can be seen from the surface. Finally, the subsoil surrounding the pipeline is carefully removed with an excavator, and piled separately from the topsoil.



### 3 Coating removal

Sand blasting crews remove the protective coating from the pipeline.



### 4 Inspection

Qualified technicians inspect the pipe to determine if repairs are required.



### 5 Maintenance and repair

If needed, welding repairs are made, which typically involves the installation of a sleeve. Once this work is complete, welds are inspected to ensure repairs meet government and industry standards.



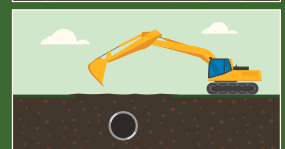
### 6 Recoating

Once the pipe is repaired, it is recoated to protect against corrosion from water and soil.



### 7 Backfill and cleanup

The excavation is backfilled and the affected landscape restored. Depending on the time of year the work is completed, restoration may have to wait. The site will be monitored for about one year after project completion and additional remediation may be performed to ensure the landscape is fully restored.



## Contact us

Keeping the lines of communication open is important to us and we are committed to continued dialogue with local communities about the project. We are always available to answer any questions or concerns associated with our planned activities. Please reach out at any time.

### Jay Brown

Community & Indigenous Engagement Advisor

**Phone:** 780-504-2683

**Email:** jay.brown@enbridge.com