

Pipeline Safety and Emergency Information

for excavators and contractors



You have received this brochure because your company is located near where Enbridge pipelines and/or associated facilities exist and may be involved in ground disturbance activities such as excavation-related work, land development, dredging, construction or facility installations.

Emergency number: 1-888-813-6844

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**Read this brochure,
then scan for a chance
to win \$500.**



About Enbridge

Life takes energy: to heat our homes, to feed our families, to fuel our vehicles. Enbridge connects people to the energy they need to help fuel their quality of life.

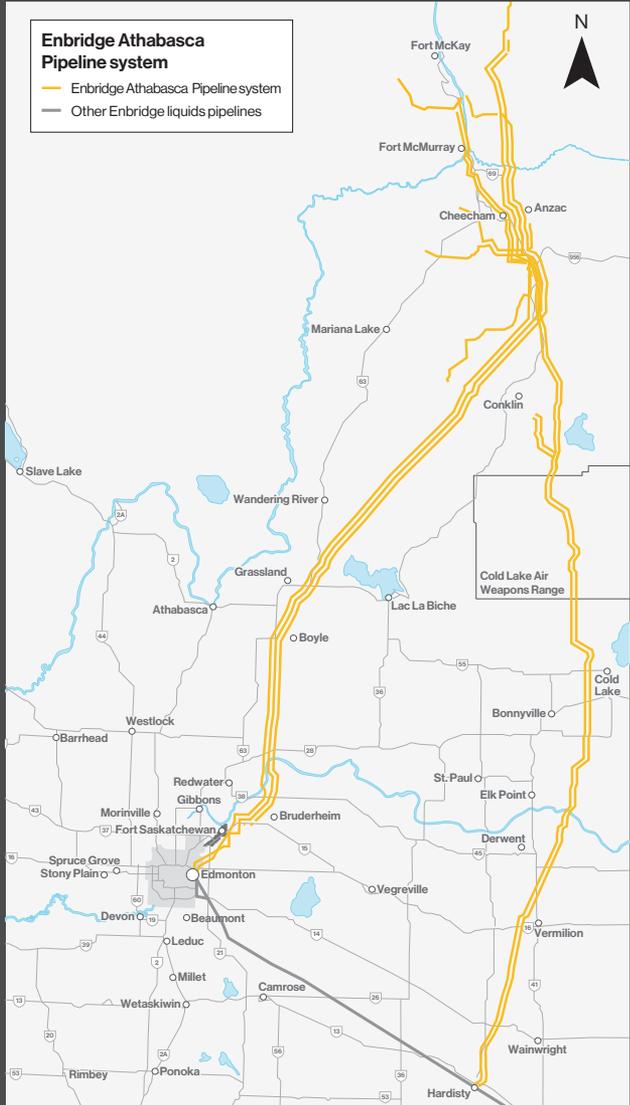
Enbridge is a global energy infrastructure leader with a vision to be the leading energy delivery company in North America.

As the owner and operator of thousands of kilometres of pipelines transporting oil and natural gas, our highest priority is operating our assets safely and reliably to protect the people, the communities and the environment located nearby.

We deliver more than three million barrels of crude and liquids every day and transport 30 percent of the crude oil produced in North America. Moving close to 85 separate commodities on any single day, Enbridge is the largest single conduit of oil into the U.S. We distribute energy, operating North America's largest natural gas utility by volume and third largest by customer count. And we generate energy with a renewable portfolio that includes nearly 2,200 net megawatts (MW) of generation capacity – enough to supply nearly 970,000 homes.

The Athabasca system

The Enbridge Regional Oil Sands system, called the Athabasca system, consists of a network of more than 2,000 km of pipelines originating north of Fort McMurray and delivering south to Edmonton and Hardisty, Alberta.



Know what's below



Risk: Failure to dig safely can endanger yourself, emergency responders and your community. Safe digging practices can save your life.

Please make community members, permit applicants, public works departments, excavators, contractors and developers aware that they need to make a locate request by following the steps listed below.

Enbridge maintains a Damage Prevention Program in accordance with provincial guidelines. The purpose of this program is to prevent damage to our pipeline facilities from excavation activities such as digging, trenching, blasting, boring, tunneling or backfilling or other activities such as heavy equipment crossing, storage on the ROW, etc. The Damage Prevention Program also monitors the depth of cover over our pipelines and conducts regular patrols of our ROWs to monitor for unauthorized activities.

If you see someone digging or disturbing the soil and there are no flags or marks on the ground, please stop the activity and ask the person to clickbeforeyoudig.com or contact their local one-call centre before continuing. One should not rely on word-of-mouth, maps, memory or pipeline markers when planning a digging project.

One-call requirements

1



At least two to three business days before your project—any time you are disturbing the soil—visit clickbeforeyoudig.com or call your local one-call centre.

2



When you call or click, you'll be connected to a representative, where you'll be asked to provide important details about your project, such as the type of work you'll be doing, where you'll be doing it and when your project is expected to begin.

3



Your local one-call centre will provide this information to pipeline operators, such as Enbridge and other companies with buried utilities near the work site, saving you the time and trouble of contacting them individually.

4



Within a few days, pipeline operators and utilities will respond to the one-call ticket. If line locating is required, professional locators will come to your location to mark their facilities—so you can work around them, saving yourself from possible injury or property damage.

**Click
Before
YouDig.com**

Know what's below

Pipeline ROW and pipeline location

A pipeline follows a narrow, clear stretch of land, called a ROW, that allows our employees and contractors to access the pipeline for inspections, maintenance, testing, and emergencies.

Approximate location of the pipeline can be determined by the pipeline marker.

A few important notes when it comes to ROWs and pipeline markers:

- Markers should never be removed or relocated.
- The pipeline marker displays the operator's name, the contents and an emergency phone number.
- If an emergency is suspected or discovered, call the number on the marker.
- The ROW must remain clear. Structures, stockpiles, stored equipment and burn piles are not permitted within the ROW.
- Markers should not be used to give exact locations and are not an alternative to contacting clickbeforeyoudig.com.



Vent marker



Line marker



Aerial marker

Marker appearance may vary in your area.

Consent within the controlled area and ROW

The controlled area is a 30 m strip of land, measured perpendicularly on each side from the centreline of pipe(s). Regulations require that within this area activities causing, or that might cause, a ground disturbance cannot occur without written consent from the pipeline company. If written consent for the activity is granted, you must then make a locate request to confirm the location of the pipeline and any other underground utilities. All planned construction activities on, along, under or across the pipeline must also receive approval from Enbridge and a locate request, before going ahead. Written consent from Enbridge is also required for vehicle or mobile equipment crossings within the ROW.

Construction and ground disturbance activity must not proceed until locating and marking of the pipeline and any possible mitigating factors have been addressed.

The Alberta Energy Regulator

Pipelines in Enbridge's Athabasca System are provincially regulated by the Alberta Energy Regulator (AER) and must comply with specific pipeline standards and regulations. As part of AER regulations, certain ground disturbance activities require approval of the pipeline company before work can commence.

Know what's near you

Above ground facilities

While most Enbridge pipelines are buried underground, our system also includes additional facilities such as compressor stations, metering stations and natural gas storage. It's important that you know what to expect as part of the normal operations at these facilities.

If you notice any suspicious activity or abnormal odour near one of our above ground facilities, call 911 immediately, then call Enbridge's 24-hour emergency number for your area.

Facility and purpose	Normal operations
At certain facilities, tanker trucks deliver producers' crude oil to lease automatic custody transfer (LACT) units , where it is metered and piped into crude oil storage facilities.	During normal operations, a slight odour may be noticed during oil transfers or maintenance activities. Higher truck traffic is common near LACT units.
Crude oil storage facilities are used to safely store and transport crude oil to refineries and other market destinations via pipeline.	During normal operations, a slight odour may be noticed during oil transfers or maintenance activities.
Pump stations increase pressure in the pipeline to maintain flow and are monitored 24/7 by Enbridge's control centres.	During normal operations, no significant odours should be detected.
Valve sites are located along the pipeline ROW and may be used to control the flow of products in the pipeline.	During normal operations, no significant odours should be detected.

Our safety measures

Safety is, and always will be, our number one priority. Our team devotes hundreds of thousands of hours every year to keeping our systems running smoothly and without incident. We invest heavily in safety measures, including:

-  Inspection and preventative maintenance programs
-  Around-the-clock monitoring of pipelines and facilities
-  Emergency response training and drills for employees and local emergency responders

-  Pressure tests on new and existing pipelines
-  Aerial and ground patrols along the pipeline ROW
-  Automatic shut-off and remote-control valves
-  High-quality pipeline material and protective coating

Enbridge has enhanced safety measures for pipelines that cross bodies of water and highly populated or environmentally sensitive areas.

To read more about our pipeline safety efforts, visit enbridge.com/safety.

Crossing or traversing the ROW



ROWs are not designed as roads or storage locations. The weight of vehicles, equipment or materials can damage pipelines below.

Do NOT do the following without obtaining Enbridge consent:

- Cross or travel along ROW with a vehicle, machinery or mobile equipment
- Park vehicles or equipment on the ROW
- Stockpile materials or construct any structures on the ROW
- Disturb the ground within the ROW

Vehicle and mobile equipment crossings

The AER requires that anyone wanting to cross the pipeline with vehicles including recreational vehicles like 4X4s, all-terrain vehicles, utility vehicles, motorcycles or mobile equipment (outside of a traveled portion of a highway or public road) submit a request to obtain the pipeline company's written consent before doing so.

By submitting your request, you provide Enbridge the opportunity to assess:

- If the vehicle, machinery or mobile equipment being used can safely cross or traverse our pipeline within the ROW at that location
- If the proposed use is safe by confirming the location and depth of cover of pipelines at the location of the crossing
- If any mitigation measures are required due to there being a potential risk or no alternative crossing locations

Crossing during an emergency:

If a crossing is required while responding to an emergency, please call Enbridge's emergency number before crossing the ROW.

> 1-888-813-6844

Non-emergency crossings:

For requests and questions about vehicle and agricultural crossings, email crossingscanada@enbridge.com.

Contact Enbridge

In case of an emergency, please find a safe place to **call 911** and then call Enbridge at:

1-888-813-6844

How to reach us



Phone:

(non-emergencies only)
1-877-640-8665



Email:

cdnpublicawareness@enbridge.com



Mail:

Public Awareness Program
200, 425 1st Street S.W.
Calgary, AB T2P 3L8



Website:

enbridge.com/publicawareness

To reach an Enbridge land representative, call **1-800-668-2951** (toll-free) or email landcontactcan@enbridge.com.

Call or Click Before You Dig



- Utility Safety Partners
(formerly Alberta One-Call)
1-800-242-3447

Links for more information

If you are planning work on the right-of-way, such as building a fence, deep tilling, digging a ditch, operating equipment or other activities, please email crossingscanada@enbridge.com.

More information can also be found online at enbridge.com/damageprevention.

More information about our emergency management program can be found at enbridge.com/emergencymanagement.

AER
aer.ca

AAER: Working Around Oil and Gas Pipelines
aer.ca/providing-information/by-topic/pipelines/working-around-oil-and-gas-pipelines

Alberta Pipeline Act
qp.alberta.ca/documents/Acts/p15.pdf

Alberta Pipeline Rules
qp.alberta.ca/documents/Regs/2005_091.pdf

Enbridge Inc.
enbridge.com

Critical safety information



Risk: Ignoring the critical safety information below could create additional hazards for the public, responders and the environment.

Recognizing a pipeline leak

In the unlikely event of a pipeline leak, one or any combination of the items listed below can typically help you recognize a leak.



You might see:

- Coloured liquid on the ground
- Flames, if a leak has ignited
- Oily rainbow-like sheen on water surfaces
- Continuous bubbling in a wet area
- Discoloured snow or vegetation in an otherwise green area
- A steam-like cloud or fog
- Unexpected frost buildup on the ground
- Dirt being blown or appearing to be thrown into the air



You might hear:

- An unusual roaring, blowing or hissing sound



You might smell:

- An unusual odour similar to diesel fuel, gasoline, sulphur or rotten egg

It is important to know that an unintended release of product from the pipeline has potential hazards including:

- Products may be flammable and explosive under certain conditions.
- Suffocation can occur if vapours displace the oxygen in an enclosed area.

What NOT to do when a leak occurs



Do not touch any liquid or vapour that may have come from the pipeline.



Do not drive into the area.



Do not remain in a building if the smell is stronger inside than outside.



Do not turn on or off anything that may create a spark – including cell phones, telephones, two-way radios, light switches, vehicle alarms, vehicle keyless entry systems and flashlights – until you are in a safe location.



Do not light a match and avoid open flames.



Do not attempt to extinguish a natural gas fire.



Do not open or close any pipeline valves; leave all valve operations to pipeline company personnel.

What happens next?

Public safety will be the top priority as Enbridge, contractors and local emergency responders work together to evaluate and respond to a pipeline leak. Local public safety officials will determine whether residents should evacuate or shelter in place. Residents may be asked to evacuate if it is no longer safe to be in the area or to shelter in place if there may be something unsafe in the environment.

Steps for a safe response

If you are in immediate danger, damage the pipeline or observe or suspect a leak – even if you are uncertain of the severity – take the following steps:

- 1 Abandon any equipment being used in or near the area, moving upwind of the product release.**
- 2 Warn others to stay away.**
- 3 Call 911.**
- 4 Call the toll-free, 24-hour Enbridge emergency number for your area:
☎ 1-888-813-6844.**
- 5 Follow instructions given to you by local emergency responders and Enbridge.**