GUIDE TO

PIPELINE SAFETY

FOR THOSE LIVING AND WORKING NEAR THE ALLIANCE PIPELINE

KEEP THIS RESOURCE IN A HANDY PLACE AND REVIEW FOR INFORMATION ON:

- How To Recognize & Respond To A Leak
- Working Safely Around Pipelines
- Excavating, Building, Landscaping, Farming Activities

IN AN EMERGENCY CALL 911 AND THE ALLIANCE PIPELINE 24-HOUR EMERGENCY NUMBER 1-800-884-8811
THE ALLIANCE PIPELINE SYSTEM

Alliance Pipeline began operations December 1, 2000, transporting high-energy natural gas through a 3,848 kilometre (km) underground system from northeastern British Columbia and northwestern Alberta – running through Saskatchewan, North Dakota, Minnesota and Iowa, and ending in Illinois.

The Alliance system transports liquids-rich natural gas from key producing areas in western Canada and North Dakota to the Chicago market hub, delivering an average of 1.6 billion cubic feet of natural gas every day - enough to meet the daily energy needs of more than seven million homes and businesses.

With dedicated employees across our North American operations, we strive to be a good neighbour and invest in the communities where we operate. Alliance also ensures that environmental protection is a top priority, as evidenced by our stringent environmental standards.

THE ALLIANCE PIPELINE

• Our mainline system consists of approximately 338.3 km (210 miles) of 107 cm (42-inch) and 1,221.1 km (759 miles) of 91 cm (36-inch) diameter steel pipe.

• The mainline system was designed and installed to reduce hazards during operation by using pipe that is of high quality and toughness, coating the pipe to minimize external corrosion and a using a higher than normal depth of cover to minimize the potential for third-party damage.

• Our lateral, or gathering system, consists of pipelines ranging in diameter size from 10 cm to 61 cm (four to 24 inch) and the length of these systems ranging from 0.3 km to 142 km (0.2 to 88 miles).

• The entire mainline system is automated and remote controlled by our Gas Control Centre 24/7, 365 days-per-year, from which we can isolate and shut down any portion of the system at any time.

• Compressor stations, which move the gas down the pipeline, are located approximately 193 km (120 miles) apart. Our mainline block valves, which can be used to stop the flow of gas in the pipeline, are located every 32 km (20 miles).
Pipelines transport energy products to help meet your everyday needs. Whether it’s heating your home, driving your car or using electronics, pipelines play a key part in getting energy to our homes and businesses.

Pipelines are the safest and most efficient mode of transporting large volumes of natural gas. With more than four million kilometres of infrastructure across Canada and the United States, the pipeline network moves huge amounts of energy every day. Pipelines are extensively regulated by the federal and provincial governments with regard to design, construction, operation and maintenance. This vast underground network transports natural gas from producing regions to cities, towns and industrial areas where it is needed.
PIPELINE SAFETY

PARTNERS IN SAFETY

Safety is Alliance Pipeline’s top priority. Because our pipeline crosses under or near your land, we want you to have all the information you need to live and work safely around our system.

Our company’s progressive culture of safety was the catalyst behind the advanced design, technology, materials and standards used to construct our system. It drives our rigorous commitment to proactive pipeline condition monitoring and our safety management system which includes our environment, integrity management and emergency management programs. These important elements of our operations serve to deliver continued safe operations. Learn more in the Safety and Environment pages of www.alliancepipeline.com.

The Alliance mainline system is made of high-quality, heavy-wall steel pipe that is generally thicker than most other operating pipelines, making it more resistant to damage. Our pipeline is externally coated for additional protection and mainline system segments that are 40 centimetres (16 inches) or more in diameter are also internally coated to improve natural gas flow. A sophisticated 24-hour monitoring system ensures we always know how the pipeline is operating, and enables us to remotely isolate any segment of the line if a problem is suspected.

EMERGENCY RESPONSE

We have a longstanding track record of safe operations. However, in the unlikely event of a pipeline emergency, Alliance personnel are trained and prepared for an emergency response. Our emergency response plan focuses on the safety of those who live or work near our pipeline, and we are prepared to act quickly along with local emergency responders in each community along our system.

Alliance Pipeline places tremendous importance on safety. For us, it’s not just a job; it’s a vital responsibility.
NATURAL GAS

NATURAL GAS IS VITAL

Turning on your stove and seeing that blue flame is comforting, but if you only think about natural gas as the methane used for home appliances and furnaces, you’re missing a much bigger picture. Alliance Pipeline’s high-energy natural gas contains other fuels like propane, ethane and butane, the raw materials for manufacturing products such as plastics, textiles and some fertilizers. Natural gas energy products are all around us as part of our everyday lives.

North America requires a varied mix of energy sources to serve our growing economy and population, and to meet the demand for clean energy. Natural gas plays a vital role in that mix, meeting about 30 percent of Canada’s energy needs.

Natural gas is:

- **Versatile**... it fuels electric generators that produce about 20 percent of our electricity, heats and cools six million homes and businesses, is a vital component of many products such as fertilizer, and powers manufacturing and transportation.

- **Cleaner burning**... produces 45 percent less carbon dioxide than coal and 30 percent less carbon dioxide than fuel oil when burned.

- **Domestically abundant**... nearly all the natural gas consumed in North America – 98 percent – is produced in the United States and Canada, with current estimates suggesting enough gas reserves to meet future demand for 100 years.

- **Reliable**... available 24 hours-a-day, seven days-a-week, regardless of weather conditions.

For all these reasons, natural gas is a popular fuel choice. Secondary products, like those shown below, are created using natural gas.

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**Did you know?**

Think you know natural gas? Here are some facts that might surprise you:

- **Six million** homes in Canada are heated using natural gas.

- Other uses for natural gas include **industrial, commercial and energy generation** purposes.

- Use of natural gas has been traced back to **500 B.C.E. China**.

- Natural gas can be used in the **air conditioning** process.

*Source: naturalgas.org*
GAS LEAK RESPONSE

WHAT CAN HAPPEN IN AN INCIDENT

Natural gas is lighter than air, so if there were a release along our system, most of the product would dissipate into the atmosphere. Even so, you should avoid contact with product released from a pipeline. Natural gas poses some health hazards and could cause dizziness, shortness of breath and loss of consciousness, if inhaled. It is flammable, so be sure to eliminate any potential sources of ignition if you suspect a natural gas leak.

Signs of a natural gas pipeline leak

In the unlikely event of a pipeline emergency, it’s important that you know the warning signs.

- Unusual hissing, whistling or roaring.
- No odour or a smell similar to diesel, oil or propane.*

* Unlike natural gas delivered to your home that may be odourized, natural gas on the Alliance System is not odourized.

- Steam-like cloud.
- Unexpected frost on the ground.
- Dirt blowing from the ground.
- Bubbling in wet areas.
- Dying or discoloured vegetation along the Right-of-Way.

Actions to take in the event of a pipeline leak

- Extinguish/eliminate ignition sources like cigarettes or machinery.
- Alert others in the vicinity.
- Leave the area immediately, in an upwind direction.
- Start vehicles or machinery in the area.
- Come into contact with leaking substance.
- Operate phones or electrical devices.

FROM A SAFE LOCATION:

Call 911 and the Alliance Pipeline 24-hour emergency number 1-800-884-8811
PIPELINE LOCATIONS AND MARKERS

THE PIPELINE RIGHT-OF-WAY

Most transmission pipelines are located underground in a Right-of-Way (RoW). The RoW is a strip of land that provides space to perform operational activities like pipeline maintenance, inspections and in some cases allows access for responding to emergencies.

KEEPING THE RIGHT-OF-WAY CLEAR

The RoW must be kept clear from obstructions to allow pipeline personnel easy access to the pipeline for inspection and maintenance activities. Alliance conducts routine aerial and foot patrols to ensure the RoW is kept clear, and to monitor this corridor for activities that may impede safety. Erecting a shed, planting trees and shrubs, or storing heavy items above a buried pipeline can be problematic for noticing and responding to a leak and can damage the pipe. Pipeline markers are used to identify that a pipeline RoW is in the area.

Keep in mind: Pipeline markers are only a warning that there is a pipeline nearby. These markers are located near common areas like road intersections, fence lines and water crossings. Pipeline marker posts do not indicate the exact location or depth of a pipeline.

Pipeline markers include four key types of information:

- The name of the operator.
- An emergency phone number.
- What product is being transported.
- Call Before You Dig reminder.

Pipeline markers are only a warning that there is a pipeline nearby, and do not indicate the exact location or depth of a pipeline.
CONTACTING ALLIANCE BEFORE YOU START A PROJECT

Digging, installing a fence, or deep ploughing sound like harmless activities, but, if you live or work near a pipeline, they can be harmful and even dangerous. Even a small nick or scratch in the pipeline, if left undetected, can cause a serious safety issue in the future.

Not obtaining approval for work in and around a federally regulated pipeline can lead to a stoppage of work, costly delays, investigation of the activity, or monetary penalty.

To ensure safety, you should contact Alliance Pipeline and obtain written approval for a number of different activities on the Right-of-Way. This includes:

- Operating non-agricultural vehicles or mobile equipment over the Right-of-Way (where a road does not exist).
- Digging or ploughing deeper than 30 cm (one foot).
- Contouring.
- Installing a drainage system.
- Constructing fences or buildings.

If you strike or hit the pipeline, get to a safe location, call 911 and the Alliance Pipeline 24-hour emergency number at 1-800-884-8811.
PLANNING A PROJECT NEAR A PIPELINE

- **Check the site.** Identify the precise location of your work; walk around the site and/or check records for evidence of pipeline easements or other buried facilities. REMEMBER: Pipeline signs and marker posts do not indicate the exact location of a pipeline.

- **Make a “locate” request.** Call your One-Call Centre (see list on back cover) to have a pipeline – and any other buried utilities – located. A company representative will visit the property and mark where the pipeline and any other Alliance buried lines or cables exist. There is no cost to you for this service.

- **If possible, be on site for the locate/markout.** This will be helpful to ensure you understand where the pipeline is located by the markings, or if you have any questions.

CROSSING/PROXIMITY AGREEMENTS

You may be required to obtain written permission and/or an agreement from Alliance for certain types of work such as:

- Any excavation, digging, or construction activity within the RoW or the NEB regulated “Prescribed Area” which is defined as 30 metres (100 feet) on either side of the pipeline as measured from its centre.

- Ploughing or trenching deeper than 30 cm (one foot) over or near the pipeline.

- If crossing or proximity agreements are necessary for your work, Alliance will work with you to obtain the necessary permission.

- If you have any questions please contact Alliance.

COMPLETING YOUR PROJECT

- Know what the various markers indicate.

- Depending on the activity, if you’ve been advised that written company approval is not required, please continue to work in a safe manner.

- An Alliance representative must be on site for all mechanical excavation within the Prescribed Area. Please comply with their directions.

- If you have received a crossing or proximity agreement from Alliance, follow the instructions within the document, including notifying us when the work will begin.

- Any unauthorized excavation, contact with the pipe, or its coating must be reported to Alliance immediately.

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Farming and damage prevention

Most of the land where our pipelines run is used for agriculture. The Alliance system is constructed and designed to cause minimal interference with normal farming operations. However, some activities could adversely affect the pipeline.

These include (but are not limited to):

- Sub-soiling
- Chisel ploughing (deeper than 30 cm or 1 foot)
- Drainage system excavation
- Contouring
- Driving posts
- Fencing
- Deep mechanical planting/ harvesting (e.g. tree farming)
PREVENTING DAMAGE

Working safely around our system: there’s more than a natural gas pipeline at risk

Every year, failure to “call before you dig” results in disruption of utilities - like power, water and telephone - for hundreds of thousands of individuals and families and can potentially lead to legal hassles, injury, and death for those involved. As a member of the community, you play an important role in monitoring your surroundings. If you see any activity taking place along the pipeline that does not seem right – you have the right to question it. This includes things like construction, operation of machinery, excavation and vehicles crossing the pipeline Right-of-Way.

If you see any activity, or anything that concerns you, contact Alliance Pipeline, the RCMP, or your local police.

In December 2010 the National Energy Board (NEB) released the “Guidance for Safe Crossings of NEB-Regulated Pipelines Using Agricultural Vehicles and Mobile Equipment.”

The guidance provides a recommended approach to the crossing of a regulated pipeline Right-of-Way by agricultural vehicles and mobile equipment and contains information on:

- Pipeline crossing safety
- Safe crossing of NEB regulated pipelines using agricultural vehicles

If you are in doubt about your activity and are working around the Alliance system, please contact us and we will arrange an on-site meeting to discuss your activity to ensure your safety and the safety of our system.
KEY CONTACT INFORMATION

Alliance Pipeline

Head Office
800, 605 – 5th Avenue SW
Calgary, Alberta, Canada T2P 3H5

Alliance Toll-Free: 1-800-717-9017
Telephone: 403-266-4464
Fax: 403-266-4495

info@alliancepipeline.com
www.alliancepipeline.com

Crossings Information/Requests
1-800-717-9017
crossings@alliancepipeline.com

Alliance Pipeline has a team responsible for meeting and working with landowners regarding any concerns and questions you may have.

AREA OFFICES

British Columbia and Alberta Gathering Office
10944 – 92 Avenue
Grande Prairie, Alberta T8V 6B5
Telephone: 780-402-3102
Fax: 780-402-3134

Alberta Mainline Office
PO Box 3149, Stn. Main
Morinville, Alberta T8R 1S1
Telephone: 780-706-4160

Saskatchewan Office
1990 Industrial Drive
Post Office Box 3527
Regina, Saskatchewan S4P 3J8
Telephone: 306-775-3030
Fax: 306-775-3035

CALL BEFORE YOU DIG

Sask First Call (Saskatchewan)
1-866-828-4888
www.sask1stcall.com

Alberta One-Call Corporation
1-800-242-3447
www.alberta1call.com

BC One Call (British Columbia)
1-800-474-6886
www.bconeallcall.bc.ca

HELP US KEEP IN TOUCH!

If you live along the Alliance Pipeline, it is important that we are able to reach you. If you’ve recently changed your phone number or have switched from a land-line to a cell phone number, please call us at 1-800-717-9017 to update your contact information.

ALLIANCE PIPELINE EMERGENCY NUMBER:
1-800-884-8811