

Pipeline Safety

Information for Government Agencies



KINDER MORGAN
CANADA INC.

Partners in Pipeline Safety

Kinder Morgan Canada (KMC) transports petroleum products throughout numerous communities in Canada. Pipelines are the safest, most efficient way to transport these products and we work hard to keep it that way. We are dedicated to keeping our pipelines safe, protecting the environment and ensuring the safety of the communities where we operate.

We use a variety of methods to ensure safe operations of our pipeline systems, such as continuous monitoring of the pipeline, regular air and ground patrols, and ongoing public awareness programs. We consider government agencies, landowners, contractors, emergency responders and the public our partners in pipeline safety.

24/7 Monitoring

We monitor our pipeline systems 24-hours a day from a state-of-the-art Control Centre in Edmonton, Alberta. Using remote monitoring technology within the pipeline system, we can quickly detect changes in pressure or

volume and have the ability to remotely shutdown sections of the pipeline.

Emergency Response

We have a comprehensive approach to emergency response planning. Our Emergency Response Plans identify staff and equipment needs to ensure a timely response in the unlikely event of a spill.

Regular training and exercises prepare our staff to respond to incidents. We work with community emergency response agencies to provide them with Incident Command training and pipeline specific response practice to ensure an efficient joint response.

Working Together to Protect Pipelines and Right-of-Ways

We rely on government agencies to notify us in advance about public works initiatives involving roadways,



bridges, utilities, zoning and other capital projects, as well as approvals issued to the public that may affect our right-of-way (ROW). With advance notice we can work together to avoid potential impacts to the pipeline or ROW. We also rely on government agencies to advise us of potential damage or conflicting ROW uses and to help enforce applicable regulations.

Excavation activity is the most common cause of serious pipeline damage. Anyone planning excavation should call their provincial or state One Call centre and request a locate of the buried facilities in the vicinity of the proposed project. If the project is near our pipeline, we will be notified by the One Call centre and will initiate an internal review of the project to ensure public safety and our pipeline's integrity.

Depending on the scope of work near our pipeline, this process might include an in-depth review that could result in a crossing agreement, or we may dispatch a KMC pipeline protection inspector to locate and mark our pipeline, free of charge.

Visual access along the ROW is critical for aerial and ground monitoring, maintenance activities, and emergency response.

Regular ROW maintenance includes trimming vegetation and removing encroachments such as unauthorized buildings or unacceptable plantings in the ROW. We rely on our partners in pipeline safety to notify us if they see any unusual activity on the ROW.

Locating Pipelines in Your Community

The pipeline is a coated steel pipe buried underground and is identified by pipeline markers located along the ROW (Fig. 1), which specify the product transported, the operator's name and emergency contact number. The markers indicate the general area of the pipeline. Only qualified KMC employees can determine the specific location and depth of the pipeline.

Please visit our website for

Information on the approval for construction on or near KMC right-of-way:

www.kindermorgan.com/business/canada under *Pipeline Safety and You*

Information for landowners and contractors, Landscaping Guidelines and other publications:

www.kindermorgan.com/business/canada under *Publications*

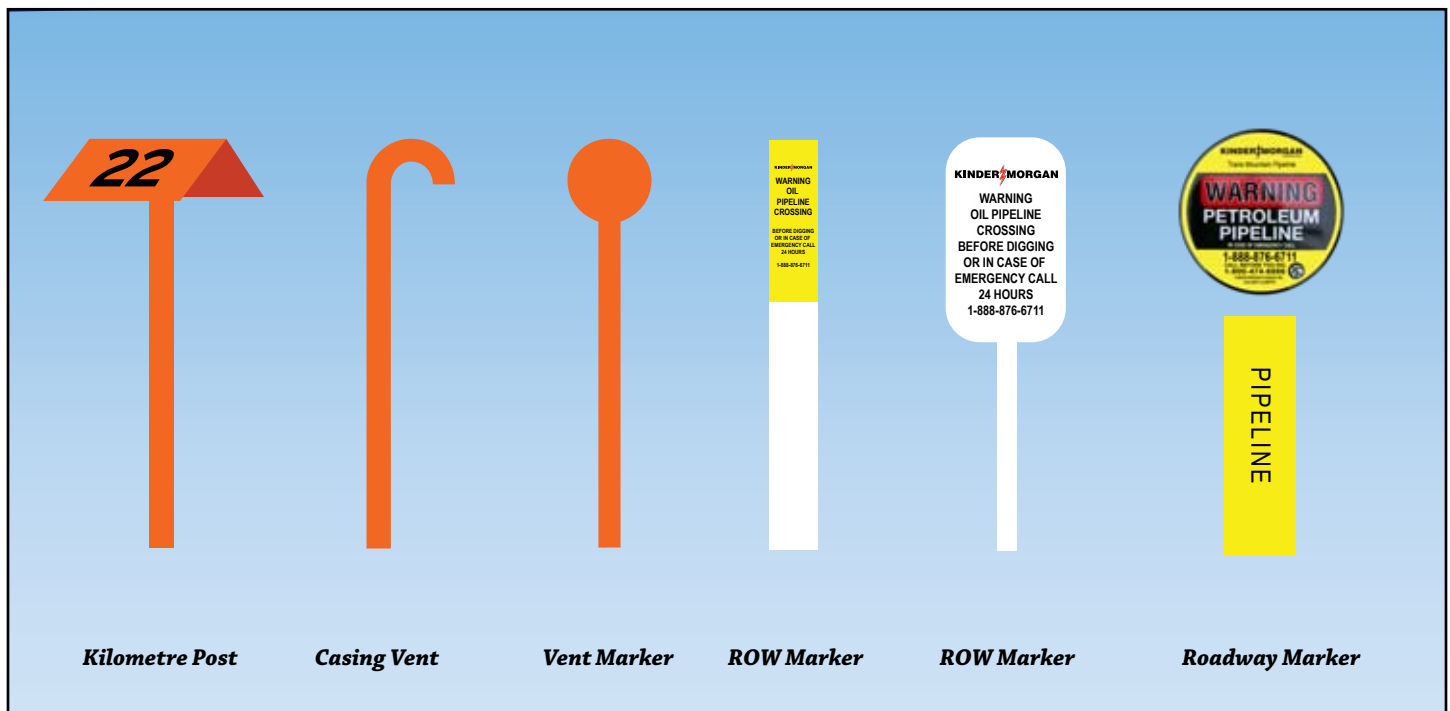


Figure 1 - Pipeline Marker Examples

Leak Recognition and Response

Although rare, pipeline incidents can be dangerous and require caution and immediate action.

Signs of a Pipeline Leak

SMELL: The smell of petroleum can be a signal that there is a problem. Some products smell like gasoline or diesel fuel; others smell like ether, sulphur, rotten eggs, or propane.

SIGHT: A small leak may moisten the ground in the immediate area of the pipeline, and a large leak could cause a puddle to form on the ground. It could be black, or yellow-brown in colour, or transparent—like gasoline. A vapour cloud or frosted ground along the pipeline may indicate a propane leak.

SOUND: A leak could sound like a hissing or roaring sound coming from the pipeline.

If a Leak Occurs

- Leave the area **on foot** in an upwind direction, moving uphill if possible.
- Don't touch or go near any liquid that looks like a leak, vapour cloud, or frosted ground along the pipeline.
- Don't attempt to operate the pipeline valves.
- Don't smoke, light a match, or create a potential source of ignition. Extinguish anything that is lit, like a cigarette.
- Don't turn on or off the lights, radios, cell phones, or any appliances powered by electricity, batteries or natural gas.
- Don't start or turn off your vehicle and do not drive into the area where you suspect a leak.
- Warn others to stay away from the area of the leak.
- As soon as you are out of the danger area call 911 and KMC at the emergency numbers provided in this booklet 24/7.

KMC EMERGENCY CONTACTS

Trans Mountain Pipeline System
(Alberta, British Columbia, Washington State)
1-888-876-6711

Express Pipeline System (Alberta)
1-888-449-7539

*Cochin Pipeline System (Alberta, Saskatchewan)
1-800-265-6000

CALL BEFORE YOU DIG

Alberta One-Call: 1-800-242-3447

BC One Call: 1-800-474-6886

Sask 1st Call: 1-866-828-4888

Washington State One Call: 1-800-424-5555 or 811



For more information on pipeline regulations, visit:

in Canada
National Energy Board
www.neb.gc.ca

in U.S.A.
Federal Energy Regulatory Commission
www.ferc.gov

*The Cochin system is operated by the KM Products Pipelines group in Houston, Texas. However, specific Canadian operational requirements are handled by KMC.