



**ENBRIDGE**  
**NORTHERN**  
GATEWAY PIPELINES

# Marine Terminal and Transport FACT SHEET



## NORTHERN GATEWAY KITIMAT TERMINAL

Canada's Pacific Coast is a source of pride for all Canadians and Enbridge recognizes our responsibility in protecting this important heritage.

Located at the end of the Douglas Channel, one of the widest and deepest inland waterways on North America's West Coast, the Northern Gateway Kitimat Terminal will provide safe mooring for vessels and terminal facilities to load and unload cargo.

The terminal will employ world class safety and navigational standards, and will include a 24/7 control centre, radar monitoring, first response equipment and personnel, storage tanks and a pump station.

The terminal will be built to accommodate a variety of ships and will have strict operational guidelines to ensure constant communication between the terminal and ships in port.

Additionally, the operation of the terminal will create direct and supporting positions that will draw on the skills and talents of the local community.

## History of Marine Safety in BC

Petroleum products have moved safely in and out of BC ports for decades.

Over the last 25 years, more than 4,300 deep sea vessels have safely moved over 50 million tonnes of cargo through the Port of Kitimat. This includes 1,500 vessels traveling to Kitimat carrying petrochemical products, including condensate.

Northern Gateway is committed to continuing the tradition of safely and securely transporting goods through BC's coastal waterways.

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Whiffen Head Newfoundland



## Double-hulled Vessels

International regulations require all new deep sea tankers be double-hulled by 2015. These are the only types of tankers that will be permitted to call on the Northern Gateway Kitimat Terminal.

Double-hulled vessels decrease the risk of cargo being released into the environment. The second hull creates an added layer of protection in the event of an incident.

Division of the cargo storage compartments helps reduce the amount of product that could be released.

## KEY SAFETY FEATURES

### Experienced Marine Pilots

Experienced BC-based marine pilots with extensive knowledge of local waters and assigned by the Pacific Pilotage Authority will board vessels bound for the Northern Gateway Kitimat Terminal at designated locations. The pilots will provide navigational guidance to the ship's master through coastal routes.

BC's marine pilots are independent, government-licensed and are knowledgeable in the navigation of local waters.

In 2007, the Pacific Pilotage Authority provided marine pilots for more than 13,000 large vessels traveling through BC's coastal waters. Through the use of these experienced pilots, there has not been a single major incident on BC's coast in the last 10 years.



### First Response

Environmental protection is a core priority for Northern Gateway. We will devote significant time, energy and financial resources to ensure that accidents are prevented.

In the unlikely event of an incident, we will respond quickly to control, contain and clean up any dispersed product.

Key elements of our environmental protection strategy are:

- Extensive training of personnel, including real-time first response drills
- First response drill review and continuous plan improvement
- Placement of first response equipment in strategic locations along the ship routes and at the Kitimat Terminal
- Training of personnel in local communities to assist in response activities
- State-of-the-art trajectory modeling to prioritize response efforts
- Dedicated response equipment and rigorous maintenance and inspection plans

## COMMITMENT TO MARINE SAFETY

### Setting the Standards

Northern Gateway will ensure that vessels calling on the marine terminal will be operated to the highest internationally recognized safety and environmental standards.

The marine strategy will include the following safety standards:

- All vessels entering Kitimat will be modern and double-hulled
- All vessels will be guided through coastal waterways by experienced and licensed BC coast pilots
- Only vessels meeting the highest safety and environmental standards in the world will be permitted at our terminal after being vetted by independent, third party agencies
- Powerful state-of-the-art tugs, the largest on Canada's West Coast, will be tethered to vessels
- Radar will be installed at strategic locations to monitor marine traffic and provide additional guidance to pilots
- Vessel travel speed will be reduced in the marine channels to between 8 and 12 knots
- First response stations and personnel will be located at the terminal and in selected locations along the route



Model of the Northern Gateway Kitimat Terminal

- While docked at the terminal, vessels loading petroleum will be surrounded with booms
- Operational safety limits will be established to cover weather conditions

### TERMPOL Review Process

To further ensure safe marine transportation, Northern Gateway is going through the TERMPOL Review Process (TRP) which refers to the Technical Review Process of Marine Terminal Systems and Transshipment Sites.

Administered by Transport Canada, the TRP is conducted by a team composed of representatives that include the Department of Fisheries and Oceans Canada, Environment Canada and other agencies. The TRP is a distinct and separate process from the federal environmental assessment process.

As part of the TRP, studies and surveys will be conducted to assess operational, safety, management and environmental issues associated with vessel routes and marine terminal siting, construction, and operation.

### Quantitative Risk Assessment

Northern Gateway has established a small research working group to assist in the planning and review of a quantitative risk assessment (QRA) of the potential risk of spills. Members of the research working group represent environmental and local community interests.

Information from the QRA will be used to complete the TERMPOL Review Process. Information from the QRA will also be publically available and provided to the National Energy Board and CEAA.



## ABOUT ENBRIDGE

Enbridge operates the world's longest petroleum and liquids pipeline system. Its pipeline systems have operated for more than 60 years and now comprise approximately 13,500 kilometres of pipeline, delivering more than two million barrels per day of petroleum products.

In addition, Enbridge is committed to fostering the development of renewable and alternative energy sources, like our wind power projects in Alberta, Saskatchewan and Ontario. Some of the power from these projects is used to power pump stations along our Liquids Pipelines System.



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