

St. Laurent Pipeline Replacement Project

Public Information Session

Tuesday, October 3 and Wednesday October 4, 2023

Welcome!

Thank you for joining us at this Public Information Session to learn more about the St. Laurent Pipeline Replacement Project!

You can provide your input on the project by:

- Speaking to a member of the project team here today
- Completing the Project Comment Form (available at the front where you signed in)
- Visiting the Enbridge Gas project website at: www.enbridgegas.com/StLaurentReplacement
- Emailing the project team at: StLaurentEA@dillon.ca

Please submit your comments by October 13, 2023 for consideration in the Environmental Report Amendment that will be submitted to the Ontario Energy Board.

Enbridge Gas' Commitment to Environment, Health, and Safety

Enbridge Gas provides safe and reliable delivery of natural gas to more than 3.8 million residential, commercial, and industrial customers across Ontario.



Enbridge Gas will carefully consider all input.

It is committed to involving community members and will provide up-to-date information in an open, honest, and respectful manner.



Enbridge Gas is committed to environmental stewardship and conducts all of its operations in an environmentally responsible manner.



Enbridge Gas is committed to protecting the health and safety of all individuals affected by its activities.

Enbridge Gas will provide a safe and healthy working environment and will not compromise the health and safety of any individual.

Its goal is to have no workplace incidents and to mitigate, to the extent feasible, its impacts on the environment. To achieve this goal, Enbridge Gas will work with our stakeholders, peers, and others to promote responsible environmental practices and continuous improvement.



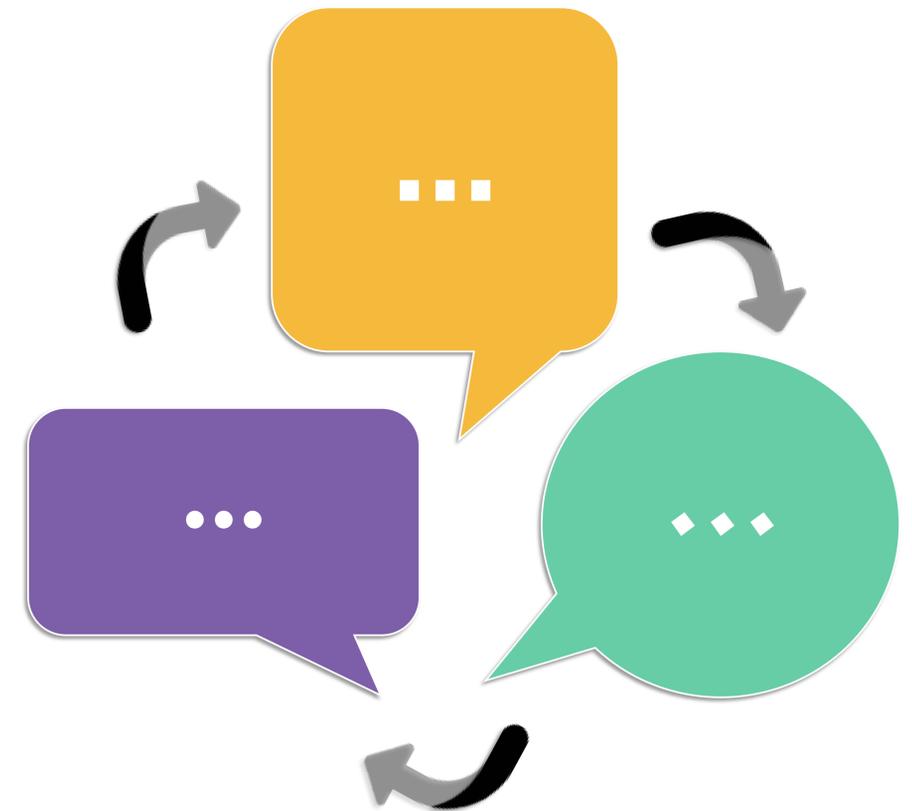
Enbridge Gas is committed to environmental protection and stewardship, and recognizes that pollution prevention, biodiversity, and resource conservation are key to a sustainable environment.

All employees are responsible and accountable for contributing to a safe working environment, for fostering safe working attitudes, and for operating in an environmentally responsible manner.



Purpose of the Public Information Session

- Provide information on the project purpose and illustrate the pipeline routes
- Inform the public, landowners, Indigenous communities, municipalities, stakeholders, and regulatory authorities about the project and gather feedback about the assessment of the pipeline routes
- Give everyone the chance to participate during the process of completing the Environmental Report Amendment, which will be included in the application to the Ontario Energy Board (OEB)
- Provide an opportunity to identify any unknown constraints and review draft plans to mitigate impacts to the local community and the environment
- Create a space for you to ask questions and/or provide comments to Enbridge Gas or Dillon Consulting



Consultation Approach



We are committed to a comprehensive consultation process and want to hear from you about this project.

Our consultation approach is:

- **Inclusive** – reaching out to all who may be interested or affected and providing opportunities to become informed and get involved.
- **Transparent** – providing access to information and clear explanations for decisions.
- **Accountable** – explaining how your input will be used in the decision-making process.

An important part of the consultation process is working with stakeholders to identify and resolve potential project-related issues and concerns.

Enbridge Inc. Indigenous Peoples Policy

Enbridge Gas follows the Enbridge Inc. (Enbridge) Indigenous Peoples Policy.

Enbridge recognizes the diversity of Indigenous Peoples who live where the company works and operates. They understand from history the destructive impacts on the social and economic wellbeing of Indigenous Peoples.

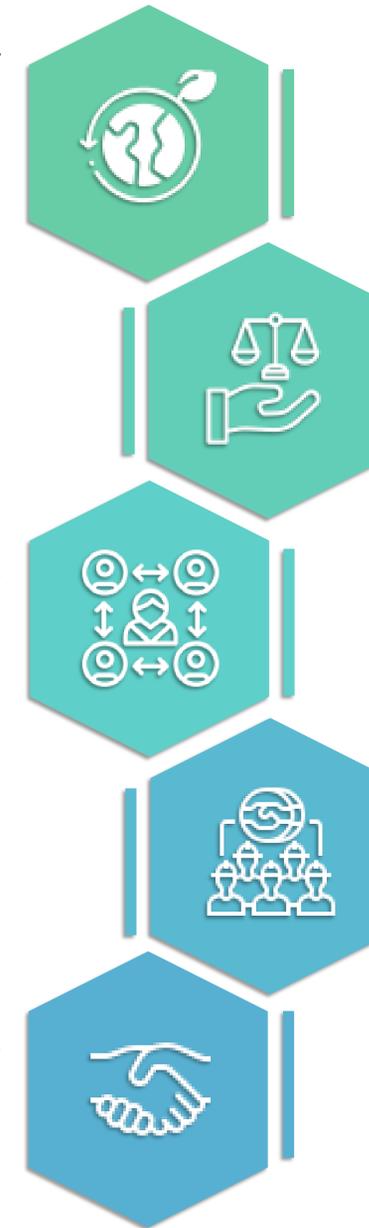
Enbridge recognizes and realizes the importance of reconciliation between Indigenous communities and the broader society. Positive relationships with Indigenous Peoples, based on mutual respect and focused on achieving common goals, will create positive outcomes from Indigenous communities.

Enbridge commits to pursue sustainable relationships with Indigenous Nations and groups in proximity to where Enbridge conducts business. To achieve this, Enbridge will govern itself by the following principles.

Enbridge **recognizes** the legal and constitutional rights of Indigenous Peoples, and the importance of the relationships between Indigenous Peoples and their traditional lands and resources. They commit to working with Indigenous communities in a manner that recognizes and respects those legal and constitutional rights and the traditional lands and resources to which they apply. Enbridge commits to ensuring that Enbridge projects and operations are carried out in an environmentally responsible manner.

Enbridge **engages** in forthright and sincere consultation with Indigenous Peoples about their projects and operations through processes that seek to achieve early and meaningful engagement. Indigenous engagement helps define projects that may occur on lands traditionally occupied by Indigenous Peoples.

Enbridge **fosters** an understanding of the history and culture of Indigenous Peoples among their employees and contractors, in order to create better relationships between Enbridge and Indigenous communities.



Enbridge **understands** the importance of the United Nations Declaration of the Rights of Indigenous Peoples in the context of existing Canadian law and the commitments that the government has made to protecting the rights of Indigenous Peoples.

Enbridge **commits** to working with Indigenous Peoples to achieve benefits for them resulting from Enbridge's projects and operations, including opportunities in training and education, employment, procurement, business development, and community development.

The commitment is a shared responsibility involving Enbridge and its affiliates, employees and contractors. They will conduct business in a manner that reflects the above principles. Enbridge will provide ongoing leadership and resources to effectively implement the above principles, including the development of implementation strategies and specific action plans. Enbridge commits to periodically review this policy so that it remains relevant and respects Indigenous culture and varied traditions.

Regulatory Framework and Environmental Study Process

For the project to proceed, approval from the OEB is required. The OEB requires that Enbridge Gas complete an environmental assessment and route selection study.

Role of the Ontario Energy Board:

- Reviews the Environmental Report (including details of consultation) as part of the application, known as the “Leave-to-Construct” Application.
- Once the Leave-to-Construct (LTC) Application is submitted to the OEB, any party with an interest in the project may apply to the OEB to become intervenors or interested parties.
- Provides a public forum during the review of the LTC Application for people to participate in the decision-making process.
- Determines whether a proposed pipeline is in the public interest.

As part of the planning process, Enbridge Gas has retained Dillon Consulting to undertake an Environmental Study for the project. The Study will be conducted in consideration of the OEB’s Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Projects and Facilities in Ontario, 8th Edition.

The Study will be conducted during the earliest phase of the planning process. As part of the Study, Enbridge Gas and Dillon Consulting will:

- Undertake engagement to understand the views of interested and potentially affected parties
- Consult and engage with Indigenous communities to understand interests and potential impacts
- Identify potential impacts of the project
- Develop environmental mitigation and protective measures to avoid or reduce potential impacts
- Develop an appropriate environmental inspection, monitoring, and follow-up program

Project Overview

What's being proposed?

Enbridge Gas is proposing to replace its St. Laurent Pipeline System, currently located along St. Laurent Boulevard in Vanier and Ottawa South.

In 2019, Enbridge Gas retained Dillon Consulting to undertake a pipeline route selection and environmental assessment to complete an Environmental Report (ER) for the project. The original ER for the project was completed in June 2020, and subsequently amended in October 2020.

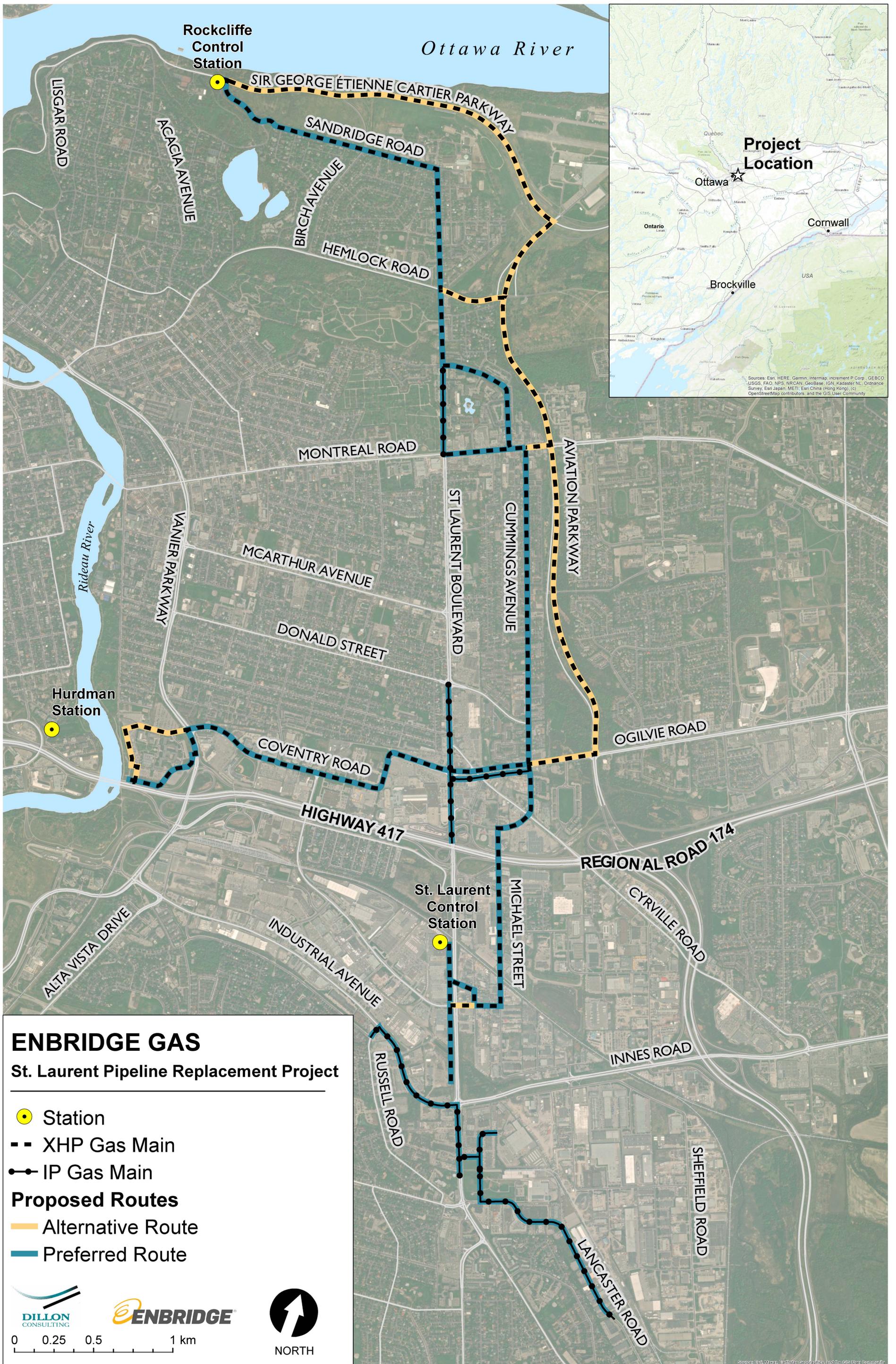
As changes to the scope of the project have been introduced, Enbridge Gas is now completing a second ER Amendment.

What's changed since the original ER and ER Amendment?

Enbridge Gas has added two new segments to the project scope. An approximate 600 m segment that runs along St. Laurent Boulevard between Shore Street and Industrial Avenue, and a 118 m segment that runs along Belfast Road between St. Laurent Boulevard and Michael Street.

Why do we need this project?

An analysis and safety evaluation completed by Enbridge Gas has demonstrated the need for the immediate replacement of the system to ensure the continued safe and reliable delivery of natural gas service.



Baseline Studies – Desktop and Field

Desktop and field studies completed to date:

- Ecological Land Classification (ELC)
- Wetland delineation
- Watercourse assessments
- Botanical inventory
- Butternut Health Assessment
- Targeted wildlife surveys – Western Chorus Frog, breeding birds, bat maternity roost habitat assessments
- Cultural heritage resource assessments (i.e., Stage 1 and Stage 2 Archaeological Assessments, Cultural Heritage Assessment Reports)

Additional Studies to be completed for the ER Amendment:

- Cultural heritage resource assessments for the two new pipeline segments.
- Desktop review of the areas of the new pipeline segments not considered in the original ER or ER Amendment.

Standard mitigation strategies will be carried out throughout construction to reduce or avoid potential impacts to native vegetation, aquatic resources, wetlands, urban wildlife, Species at Risk (SAR), and cultural heritage resources.



Natural Environment - Overview

A preliminary field investigation including preliminary Ecological Land Classification (ELC) was conducted by Dillon biologists on December 13 and 17, 2019 from the municipal road allowance along the pipeline routes to identify and assess existing natural features, including potential terrestrial and aquatic habitat. ELC and wetland delineation was completed in spring/summer 2020, as well as terrestrial, aquatic, and targeted wildlife and SAR habitat surveys.

The results of the ELC surveys determined lands in the Study Area are primarily classified as 'constructed' or 'cultural' communities; however, natural communities also occur adjacent to the proposed pipeline routes.

Cultural communities most common within the Study Area include residential properties, businesses, and commercial and institutional properties.

Natural communities encountered within the Study Area are diverse in habitat type, with the most common community types identified as graminoid meadow, deciduous forest, open pasture, and thicket swamp.



Natural Environment - Species at Risk (SAR)

Based on the results of the field studies completed for the ER in 2019/2020, there is one identified SAR occurring in the Study Area (Butternut). In addition, forest communities in the Study Area were identified as having the potential to support maternal roosting habitat for SAR bats (Northern Myotis, Little Brown Myotis, and Tri-coloured Bat).



Butternut



Northern Myotis



Tri-Coloured Bat



Little Brown Myotis

The Ministry of the Environment, Conservation and Parks will be consulted during detailed design to determine whether species-specific surveys are required to support potential permitting and/or approvals under the *Endangered Species Act, 2007*.

Socio-Economic Environment - Overview

- The project Study Area is urban in nature with a broad variety of land uses including residential, employment, industrial, commercial, and recreational uses. Commercial and industrial activities are mainly located along St. Laurent Boulevard and Coventry Road and commercial activities, such as retail shops, grocery stores, and food services occur along St. Laurent Boulevard. Industrial activities also occur south of Highway 417 on Michael Street, Industrial Avenue, St. Laurent Boulevard (south of Innes Road), Bourassa Street, Gladwin Crescent, and Lancaster Road where the proposed routes occur.
- Areas with urban natural features, such as woodlands, wetlands, watercourses, and ravines, and major open space also occur within the Study Area.



According to the latest 2021 Census, the leading industries in the City of Ottawa are public administration, health care and social assistance, and professional, scientific, and technical services.

High-tech and the federal government, which, together, account for 37% of Ottawa's total gross domestic product are the two major economic sectors in Ottawa.

Potential Effects and Mitigation Measures

Natural Environment

Examples of Potential Effects

- Temporary loss or alteration of vegetation during construction.
- Temporary alteration of wildlife habitat and/or disruption of wildlife movement during construction.
- Temporary alteration of SAR habitat and/or disruption of SAR movement during construction.

Examples of Mitigation Measures

- Minimize the width of the construction area to reduce the amount of vegetation affected.
- Flag or fence off environmentally sensitive areas prior to construction.
- Document wildlife and SAR encounters and notify appropriate regulatory authorities, where required.
- Provide SAR identification sheets and environmental orientation to workers to ensure awareness of sensitive species, habitat, and mitigation measures during construction.

Socio-Economic Environment

Examples of Potential Effects

- Temporary increase in nuisance noise during construction.
- Temporary traffic disruptions during construction.
- Temporary increase in wastes during construction.

Examples of Mitigation Measures

- Construction activities will be carried out in compliance with municipal noise by-laws with respect to noise and construction equipment usage. Applicable noise by-law exemptions will be sought if construction activities cannot be avoided on Statutory Holidays, Sundays or at night. (Note that typical construction days and times are Monday-Saturday, 7 am to 5 pm).
- Traffic access will be maintained, where possible, during construction. Good management and best practices will be implemented during construction to minimize traffic disruption. If required, temporary detour routes will be provided to reduce potential impacts to commuters.
- Solid waste will be collected and disposed of appropriately in accordance with applicable regulations at a licensed waste facility.

Cultural Heritage Resources

Archaeology

- Stage 1 and Stage 2 Archaeological Assessments (AAs) were undertaken for the project in 2020 and 2021.
- The Stage 1 AAs confirmed that the majority of the Project footprint is considered extensively disturbed and no longer retains potential for recovering archaeological resources; however, 131.28 ha was determined to be subject to Stage 2 AA.
- The Stage 2 AAs confirmed that the Study Area is free of archaeological concern.
- A Stage 1 AA is being conducted in the areas of the new proposed pipeline segments. The Stage 1 AA will review geographic, land use, and historical information of the Study Area to determine if there are any known archaeological sites on or near the newly proposed pipeline segments.

Built Heritage Resources and Cultural Heritage Landscapes

A Cultural Heritage Screening conducted for the project in 2020 identified properties of possible Cultural Heritage Value or Interest (CHVI) along the pipeline routes. Cultural Heritage Assessment Reports (CHARs) and Heritage Impact Assessment (HIAs) were subsequently completed in 2021 that further evaluated potential heritage resources and the project's potential to impact cultural heritage resources.

The Cultural Heritage Screening and CHARs found that:

- The Study Area contains a number of properties with potential CHVI – including buildings over 40 years of age, cemeteries, a Canadian Heritage River watershed, and properties that are the subject of municipal, provincial, and federal commemorative and interpretive plaques.
- Local or Aboriginal knowledge or accessible documentation also suggests that some properties within the Study Area are considered a landmark in the local community or contain structures or sites that are considered to be a cultural heritage landscape.
- The CHAR and HIA completed for a portion of the Study Area in 2020 concluded that approximately 65 properties have potential or confirmed CHVI.

A Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment is being conducted in the areas of the new proposed pipeline segments.

Pipeline Design, Construction and Safety

Pipeline Design



- The proposed pipeline is designed to meet and/or exceed the regulations of the Canadian Standards Association (Z662 Oil and Gas Pipeline Systems) and the applicable regulations of the Technical Standards & Safety Authority (TSSA).

Pipeline Construction



- The construction work is temporary and transitory – once the pipe is laid, the area will be restored to as close to pre-construction condition as possible.

Pipeline Safety



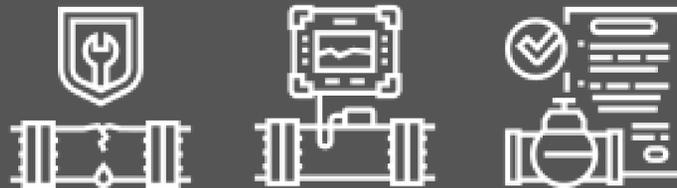
Enbridge Gas takes many steps to safely and reliably operate their network of natural gas pipelines, such as:

- Designing, constructing, and testing their pipelines to meet or exceed requirements set by industry standards and regulatory authorities.
- Ensuring that any work is respectful of community activities, regulations, and bylaws.
- Continuously monitoring their network.
- Performing field surveys to detect leaks and confirm that corrosion prevention methods are working as intended.

Pipeline Integrity Studies - Overview

To fully assess the current condition of the St. Laurent Pipeline, Enbridge Gas undertook the following integrity assessment activities between June 2022 and May 2023:

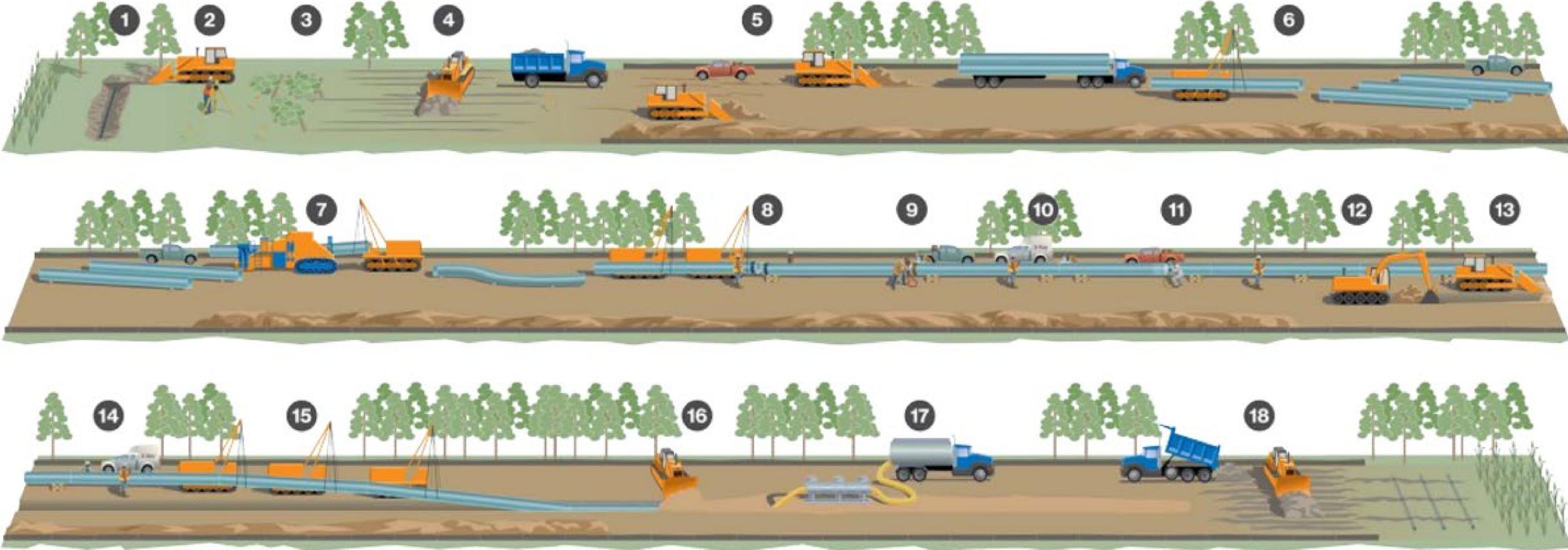
- In-line inspections of the pipeline utilizing advanced scanning technologies to identify third-party damage, defects and corrosion
- Leak detection assessments and surveys
- A review of the pipeline's current condition against applicable safety standards
- An evaluation of various remediation options, including ongoing assessments and repairs, and a partial replacement of the pipeline system



Integrity Assessment Conclusion

A full pipeline replacement is the optimal option for the continued safe and reliable delivery of natural gas service. Long-term, the St. Laurent Pipeline is not safe to operate without replacement.

General Construction Overview

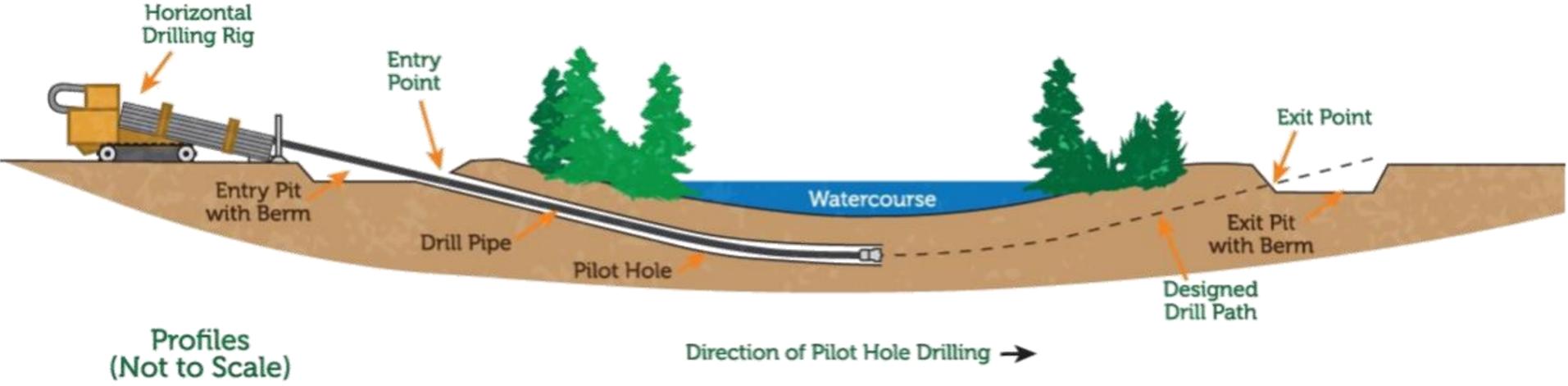


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|----------------------------|-----------------------------------|-----------------------|---|---|---|
| 1. Pre-construction tiling | 4. Right-of-way topsoil stripping | 7. Field bending pipe | 10. X-ray or ultrasonic inspection, weld repair | 13. Padding trench bottom | 16. Backfilling |
| 2. Surveying and staking | 5. Front-end grading | 8. Lining-up pipe | 11. Field coating | 14. Final inspection and coating repair | 17. Hydrostatic testing |
| 3. Clearing | 6. Stringing pipe | 9. Welding process | 12. Digging the trench | 15. Lowering pipe | 18. Site restoration and post-construction tiling |

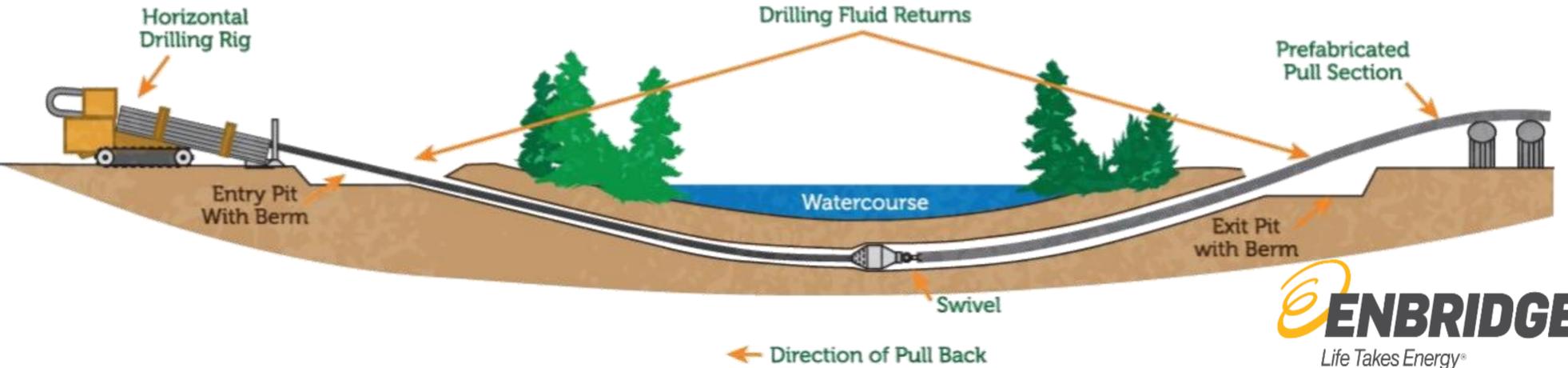
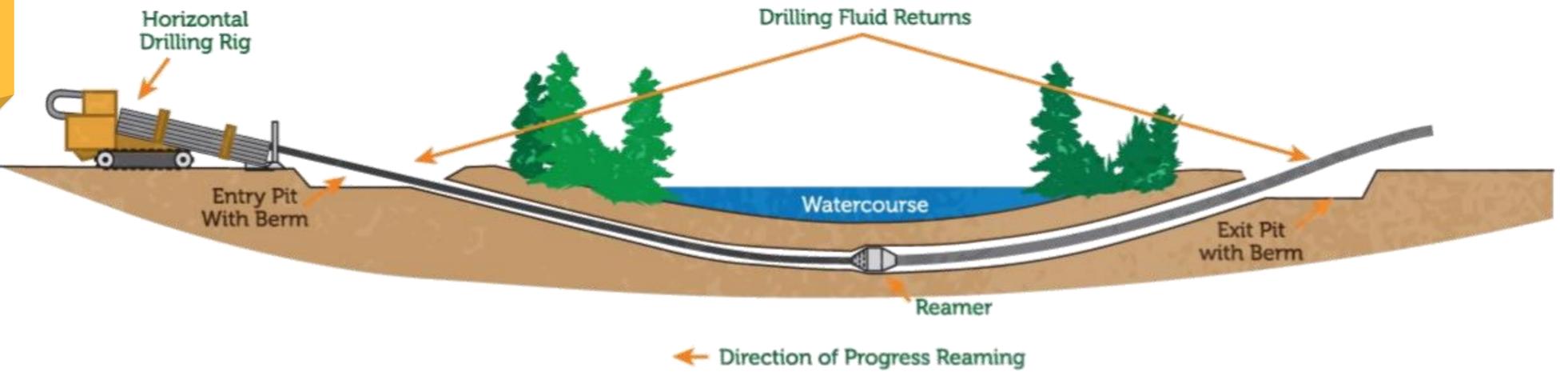
Typical Process for Horizontal Directional Drilling (HDD)

HDD is a construction technique whereby a tunnel is drilled under a designated area and a pipeline is pulled through the drilled underground tunnel. HDD construction is considered suitable for site-specific situations because it minimizes the impact on the area above the drill. Although land around the drill entry and exit locations is temporarily disturbed during HDD activities, it will be restored to its pre-drill state following construction.

**Stage 1:
Pilot Hole
Directional
Drilling**



**Stage 2:
Reaming and
Pulling Back**



Source: <https://www.transmountain.com/news/2019/digging-deeper-trenchless-crossing-methods-reduce-impact>

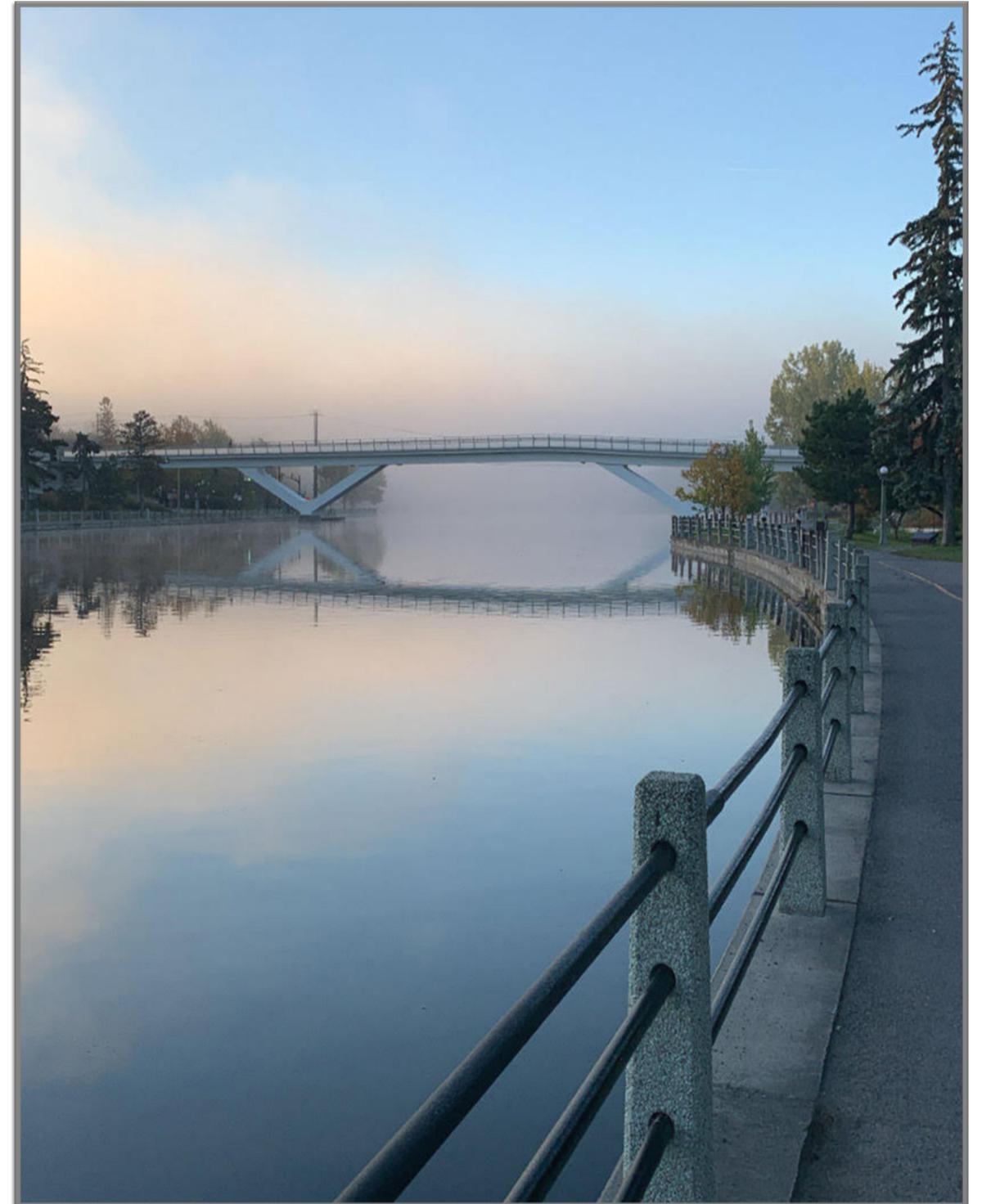
Example of Pipeline Installation in Road Allowance

The photos on this slide show a typical pipeline construction sequence in a road right-of-way, from stringing (1), to trench preparation (2), lowering in (3), and site restoration (4).



Integrated Resource Planning (IRP)

- As the energy landscape continues to evolve, there is a growing interest in non-pipe alternatives to meet energy needs.
- IRP is a framework through which Enbridge Gas reviews alternative approaches to meeting energy needs to avoid or defer the build of new infrastructure such as:
 - Delivering more energy without adding new pipelines by using liquefied or compressed natural gas.
 - Reviewing market-based supply side alternatives.
 - Lowering energy use through effective energy efficiency or demand response programs.
- As Enbridge Gas continues to lead the transition to a low-carbon future, it is dedicated to exploring IRP alternatives where they are in the best interest of communities, the environment, and the company, while considering safety and reliability, cost-effectiveness, optimization, risk management, and public policy.



Mitigation and Monitoring

Enbridge Gas is committed to working with the community on construction planning, mitigation, and post-construction monitoring. Post-construction monitoring will be conducted so that impacted areas are restored to as close to pre-construction conditions as possible.



Enbridge Gas recognizes that the construction of the pipeline may result in short-term adverse impacts and they commit to applying mitigation measures to reduce these impacts and work with affected municipalities and landowners so that issues are resolved in a timely manner.

Environmental Assessment Process and Project Schedule

Communication and Consultation

October-November 2019	●	Identification of Potential Routes
December 2019	●	Baseline Data Collection
February 2020	●	First Notice of Commencement and Public Information Session
July 2020	●	Completion of Environmental Report
November 2020	●	Completion of First Environmental Report Amendment
September 2023	●	Second Notice of Commencement and Public Information Session
October 3 and 4, 2023	●	Second Public Information Session
September-October 2023	●	Desktop Studies and Additional Assessment for Second ER Amendment
October 2023	●	Second Environmental Report Amendment Submitted to Ontario Pipeline Coordinating Committee for 42-day Review Period
December 2023	●	Anticipated Leave-to-Construct Application Submission to the OEB
Summer 2024	●	Tentative Construction Start Date (pending OEB approval)
Winter 2025	●	Potential Construction Completion Date

We are here

Continuous Stakeholder Engagement

Enbridge Gas is committed to open dialogue throughout the environmental assessment and the OEB Leave-to-Construct Application process. Stakeholders will have the opportunity to remain engaged in the process after the environmental assessment is completed, through:

- Participation in the OEB hearing as an intervenor or interested party (details can be found at www.oeb.ca)
- Contacting project team members (project contact information provided on next slide)
- Visiting the Enbridge Gas project website at www.enbridgegas.com/StLaurentReplacement



Thank you for participating in the Public Information Session!



We want to hear from you! Please complete the Project Comment Form provided here today or contact a project representative via the contact details provided below.



After today, all public information session materials will be available for download on the Enbridge Gas project website at:

www.enbridgegas.com/StLaurentReplacement



Please submit your feedback by **October 13, 2023** so it can be considered in the Environmental Report Amendment that will be submitted to the Ontario Energy Board.

Project Contact Information:



StLaurentEA@dillon.ca



416-229-4646, ext. 2048

Stay Informed