



ENBRIDGE GAS INC.

Post Construction Report

NPS 20 Replacement Cherry to Bathurst (EB-2020-0136)

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Acronyms and Abbreviations

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Acronyms and Abbreviations

AFN	Alderville First Nation
Dillon	Dillon Consulting Limited
Enbridge Gas	Enbridge Gas Inc.
EPP	Environmental Protection Plan
ER	Environmental Report
EASR	Environmental Activity and Sector Registry
GFL	GFL Environmental Inc.
LTC	Leave-to-Construct
L/day	litres per day
m	metre(s)
MCFN	Mississaugas of the Credit First Nation
MENDM	Ontario Ministry of Energy, Northern Development and Mines
NPL	NPL Canada
NPS	Nominal pipe size
OEB	Ontario Energy Board
O. Reg.	Ontario Regulation
OEB Guidelines	Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 7th Edition
the Project	4.5 km of natural gas pipeline in the City of Toronto
ROW	Right-of-Way
SAR	Species at risk
Stantec	Stantec Consulting Limited
TMHC	TMHC Inc.

1.0

Introduction

On December 17, 2020, the Ontario Energy Board (OEB), in its Decision and Order for EB-2020-0136, granted Enbridge Gas Inc. (Enbridge Gas) leave to construct the NPS 20 Replacement Cherry to Bathurst Project, consisting of the installation of natural gas pipeline and ancillary facilities to replace approximately 4.5 km of the Cherry to Bathurst segment along Lake Shore Boulevard in the City of Toronto (the Project).

Construction of the Project began June 2021. Due to concurrent projects in the area and permitting timelines, Enbridge Gas divided the construction of the Project into four components. The first component involved the installation of 110 m of pipeline along Lake Shore Boulevard East at Cherry Street. Construction of this segment was completed in September 2021. Component 2 involved the construction of 970 m of pipeline along Lake Shore Boulevard West, from approximately Bathurst Street to Spadina Avenue. Construction of this segment was completed in March 2022. Component 3 consisted of the construction of 3,054 m of pipeline along Lake Shore Boulevard West, from approximately Spadina Avenue to Cherry Street. Construction began May 2022 and was completed December 2022. The final component, Component 4, entailed construction of the remaining 254 m of pipeline along Parliament Street from Mill Street to Lake Shore Boulevard. Construction of this segment was also completed December 2022. The pipeline was energized and fully in-service December 8, 2022.

Enbridge Gas filed notifications of Project milestones (i.e., construction and in-service dates) with the OEB, in accordance with the Conditions of Approval for the Project.

Condition 7(a) of Schedule B (Leave to Construct Conditions of Approval) of the OEB Decision and Order (EB-2020-0136) for the Project states that:

7. Both during and after construction, Enbridge Gas shall monitor the impacts of construction, and shall file with the OEB an electronic (searchable PDF) version of each of the following reports:

(a) A post construction report, within three months of the in-service date, which shall:

- i. Provide a certification, by a senior executive of the company, of Enbridge Gas' adherence to Condition 1 [i.e., "Enbridge Gas Inc. (Enbridge Gas) shall construct the facilities and restore the land in accordance with the OEB's Decision and Order in EB-2020-0136 and these Conditions of Approval."];*
- ii. Describe any impacts and outstanding concerns identified during construction;*
- iii. Describe the actions taken or planned to be taken to prevent or mitigate any identified impacts of construction;*

- iv. *Include a log of all complaints received by Enbridge Gas, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions; and*
- v. *Provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licences, and certificates required to construct, operate and maintain the proposed project*

This Post Construction Report has been prepared to satisfy the requirements set out in Condition 7(a), as outlined above. The certifications required pursuant to conditions 7(a)(i) and 7(a)(v) are provided in **Appendix A**.

1.1 Project Description

The Project consisted of the installation of approximately 4.5 km of nominal pipe size (NPS) 20-inch high pressure steel pipeline, of which 4.3 km of pipeline was installed to replace the existing natural gas main on Lake Shore Boulevard from Cherry Street to Remembrance Drive and a 230 m section on Parliament Street from Mill Street to Lake Shore Boulevard. Installation and construction of the pipeline occurred entirely within the municipal road rights-of-way (ROWs). As provided above, due to concurrent projects in the area and permitting timelines, construction of the pipeline occurred in four phases (components). An overview of the Project is illustrated on **Figure 1**.



Service Layer Credits: Source: Esri, Maxar, Earthstar, Geographics, and the GIS User Community

ENBRIDGE GAS INC.
NPS 20 REPLACEMENT CHERRY TO BATHURST

PREFERRED ROUTE
FIGURE I



- Existing Pipeline (NPS 20)
- Road
- Railway
- Waterbody
- Preferred Route



MAP DRAWING INFORMATION:
DATA PROVIDED BY MNRF,
ENBRIDGE GAS INC.
IMAGERY DATE: 2017

MAP CREATED BY: LK/SCM
MAP CHECKED BY: TL
MAP PROJECTION: NAD 1983 UTM Zone 17N

SCALE 1:11,000
0 125 250 500 m



PROJECT: 19-1663 STATUS: DRAFT DATE: 2023-02-13

1.2 Studies Completed for the Project

As part of the Project, Enbridge Gas conducted the studies listed in **Table 1** to inform the design, planning, and permitting process, identify environmental and socio-economic impacts potentially resulting from construction, and reduce impacts through the application of documented mitigation measures.

Table 1: Studies Completed for the Project

Study	Completed By	Date
Stage 1 Archaeological Assessment	TMHC Inc. (TMHC)	May 2021
Cultural Heritage Assessment and Heritage Impact Assessment	TMHC	August 2021
Environmental Report	Dillon Consulting Limited (Dillon)	March 2020
Environmental Protection Plan	Dillon	October 2021
Environmental Activity Sector Registration (EASR)	Stantec Consulting Limited (Stantec)	October 2021
Pre-Construction Vibration Assessment	Dillon	October 2021, May 2022
Archaeological Monitoring	TMHC	October 26 2021, June 2022 through November 2022
Construction Vibration Monitoring	Dillon	May through July 2022

2.0

Construction Effects and Mitigation Measures

All construction and rehabilitation activities complied with the Conditions of Approval set out in the OEB Decision and Order for EB-2020-0136, including ensuring that the requirements of all approvals, permits, licenses, and certificates are fully addressed. Additionally, the Project activities were conducted in accordance with Enbridge Gas's Construction Policies and Procedures and followed the mitigation measures, and monitoring and contingency plans recommended in the Environmental Report (ER) and Environmental Protection Plan (EPP) for the Project.

Many of the potential environmental impacts identified in the ER were avoided by locating the pipeline within the existing road allowance. An Environmental Inspector was assigned to the Project to monitor construction activities for potential environmental concerns, and provide guidance on environmental protection, as required. This contributed to successful Project completion.

A Project Construction Kick-off meeting was held on March 29, 2021, to communicate Project-specific details, including scope, schedule, key contacts, roles and responsibilities, health and safety requirements and environmental requirements. The overview of the EPP and environmental requirements included key mitigation measures for construction, including dewatering, air and dust, soil handling, excess soils, contaminated soils, spills, wildlife, species at risk (SAR), and archaeological resource discoveries.

2.1

Water Management

A permit(s) from the Ministry of Environment, Conservation and Parks is required if a Project involves construction dewatering (groundwater and/or storm water takings) of more than 50,000 litres per day (L/day). For volumes greater than 50,000 L/day but less than 400,000 L/day for the purposes of construction site dewatering, a project may be eligible for registration under the Environmental Activity and Sector Registry (EASR). A Water Taking and Discharge Management Report for the Project, dated October 5, 2021, was prepared by Stantec. As the Project was not anticipated to exceed water takings of 400,000 L/day, an EASR was completed and the site was registered from October 8, 2021, to July 1, 2022.

Dewatering was completed in accordance with the Water Taking and Discharge Management Report. During construction, pumped water was temporarily stored on site in ballast tanks and then trucked off site by the contractor. No surface or groundwater issues were recorded by the EI during active construction.

2.2 Excess Soils

Excess soils were managed in accordance with the requirements of *Ontario Regulation (O.Reg.) 406/19* (On-Site and Excess Soil Management) and associated documents. All excess soil was received by GFL Environmental Inc. (GFL) under contract of NPL Canada (NPL). Liquid soils produced through utility locating processes via hydrovac removal were sent off-site to GFL facility.

2.3 Spills

Spills and spill prevention were managed in accordance with the Project's EPP and Enbridge's Spill Response and Reporting section of the Construction and Maintenance Manual as well as the Environmental, Health, and Safety Manual. Appropriate spill kits and secondary containers were utilized throughout the construction site while construction was ongoing. No spills occurred during Project construction.

2.4 Traffic Disruption

The Project was primarily constructed within the municipal road ROW. As a result, vehicular traffic flow along the roadway was modified during construction. In addition to communicating with City of Toronto representatives as well as residents and businesses along the construction route, traffic control plans were developed in accordance with Ontario Traffic Manual (OTM) Book 7: Temporary Conditions. Traffic control measures included applying traffic restrictions (timing of lane closures for equipment movement and access and egress to construction zones) and installing appropriate signage along the affected route.

Daily field safety meetings were conducted at the beginning of every shift for all on-site personnel which included vigilance around vehicular safety.

3.0

Post-Construction Site Conditions

Restoration was required at areas of disturbance along the pipeline route. The condition of these areas was observed during site inspections to identify potential deficiencies and to advise the contractor prior to restoration.

Following the completion of construction activities, areas of disturbance were re-graded and, where applicable, re-seeded with a recommended seed mix. Post construction environmental monitoring, completed February 8, 2023, confirmed areas of construction have effectively stabilized and show no observable evidence of erosion. The restoration log in **Appendix B** documents current conditions within the construction footprint with any deficiencies identified and recommendations for outstanding issues.

Final restoration for all remaining areas will be completed prior to the filing of the Final Monitoring Report with the OEB.

4.0

Indigenous Consultation

On October 17, 2019, and as per OEB Guidelines, an email was sent to the Ministry of Energy, Northern Development and Mines (MENDM) providing notification of Enbridge Gas' intent to submit a Leave-to-Construct (LTC) Application to the OEB for the Project and requesting the MENDM's assessment of Duty-to-Consult requirements.

In a letter dated December 19, 2019, the MENDM determined that the Project may have the potential to affect First Nation communities and provided a list of the following communities that should be consulted:

- Alderville First Nation; and,
- Mississaugas of the Credit First Nation (MCFN).

The Indigenous communities listed above were engaged and consulted with during planning of the Project, including development of the ER. Enbridge Gas gathered information through outreach (written and verbal) and face to face meetings. Consultation and engagement initiated on January 7, 2020, by way of a letter and accompanying Notice of Study Commencement and Open House. Throughout consultation, the identified Indigenous groups did not express any Project-specific concerns.

Prior to, and during construction, the identified Indigenous communities were provided opportunities to access information on Project activities through emails and phone calls including Project updates, environmental technical briefings, and archaeological and environmental field studies.

Additionally, as part of Enbridge Gas's Operational Lifecycle approach, Enbridge Gas supported key community initiatives and events to help build and continue fostering a long-term relationship between the identified Indigenous communities and Enbridge Gas.

5.0

Comments and Complaints

Table 2, below, provides a log of comments and complaints received during Project construction. All complaints have been resolved and there are no outstanding concerns.

Table 2: Comment and Complaint Log

Date Received	Contact Name	Contact Type	Method of Contact	Comment	Resolution
June 2, 2022	██████████	Work Zone Coordinator, Transportation Services, City of Toronto	In-person/on-site	Vehicles attempting left-hand turns onto Lakeshore Boulevard West from Lower Simcoe Street despite Traffic Control Plan signage indicating restrictions.	<ul style="list-style-type: none">• Work Zone Coordinator from the City of Toronto requested Enbridge Gas bag the left-hand-turn signal light at the Lower Simcoe Street and Lakeshore Boulevard West intersection to avoid further confusion.• Enbridge Gas Contractor completed this request immediately to rectify the issue and no further complaints were received/identified.
June 30, 2022	██████████	Resident in surrounding area	Email	Complaint received regarding construction-related traffic congestion on Lakeshore Boulevard West at York Street.	<ul style="list-style-type: none">• Enbridge Gas representative responded to the resident explaining the purpose of the traffic control set up, the justification for lane closures, and the temporary construction impacts on local traffic volumes.
July 12, 2022	██████████	Resident in surrounding area	Email	Complaint received regarding construction-related traffic congestion on Lakeshore Boulevard West.	<ul style="list-style-type: none">• Enbridge Gas representative responded to the resident and provided general information about the Project and discussed the temporary construction impacts on local traffic volumes and the construction schedule.
August 4, 2022	City of Toronto Representative	City of Toronto Representative	Phone call	City of Toronto representative called Enbridge Gas to relay a compliant sent to the City from a commuter regarding construction-related traffic.	<ul style="list-style-type: none">• Enbridge Gas representative called the phone number of the commuter (provided by the City); however, the number was out of service.• The City of Toronto representative was satisfied with Enbridge Gas’ due diligence on the matter, despite being unsuccessful in getting a hold of the inquirer.
October 26, 2022	City of Toronto Representative on behalf of commuter ██████████	City of Toronto Representative on behalf of commuter	Phone call	City of Toronto representative called Enbridge Gas to relay a compliant, submitted by ██████████, regarding construction-related traffic volumes on Parliament Street between Mill Street and Lakeshore Boulevard East.	<ul style="list-style-type: none">• Enbridge Gas representative informed the City of Toronto representative (who responded to complaint) of the scheduled intersection closure. Enbridge Gas informed that the lane closure resulting in construction was required to complete open cut installation across Parliament Street and would last three days.
October 26, 2022	██████████ Property Management Representative	Property Management Representative	Phone call	Complaint received from Property Management representative in the Distillery District regarding patrons and residents not being able to access parking lot.	<ul style="list-style-type: none">• Enbridge Gas representative clarified that a local film crew in the area was responsible for the parking lot access issues but advised that there were nuisance disturbances associated with construction-related traffic congestion happening nearby due to the Project.
November 14, 2022	██████████	Resident in surrounding area	Phone call	Complaint received about traffic on Lakeshore Boulevard between Yonge Street to York Street due to lane closures for construction.	<ul style="list-style-type: none">• Enbridge Gas representative responded to the resident explaining the purpose of the lane closures (to complete permanent road restoration) and clarified that the lane closures/construction is temporary. Enbridge Gas provided an overview of the construction schedule with the end date of the lane closures. The Enbridge Gas representative also provided general information about the Project and the process to obtain permission to close lanes (traffic plans and work zone coordination etc.). Enbridge Gas confirmed that additional traffic message boards would be added in the coming days to inform commuters of delays.• Following this compliant, Enbridge Gas ensured that the Paid Duties Officers on site were directing traffic accordingly.

6.0

Summary

This Post Construction Report has been prepared pursuant to the Conditions of Approval contained in the OEB Decision and Order for the EB-2020-0136 proceeding. This report provides confirmation that Enbridge Gas has complied with the Conditions of Approval and also provides a description of the mitigation measures implemented to mitigate identified impacts of construction. It is anticipated that these actions will effectively eliminate any long-term impacts to the environment.

A Final Monitoring Report will be prepared in accordance with Condition 7(b) of the Conditions of Approval and will evaluate the success of restoration measures and identify any areas that require additional restoration, if necessary.

Appendix A

Executive Certifications



Conditions of Approval
Application under Section 90(1) of the OEB Act
Enbridge Gas Inc.
EB-2020-0136
December 17, 2020

I hereby certify that Enbridge Gas Inc. has constructed the facilities and restored the land in accordance with the OEB's Decision and Order in EB-2020-0136 and the Conditions of Approval, as per Condition 7 (a)(i).

3-Mar-2023

Date

A handwritten signature in black ink, appearing to be 'JB' followed by a horizontal line.

Jennifer Burnham

Director, Field Services and Growth
Enbridge Gas Inc.

Condition 7 (a)(i).

7. Both during and after construction, Enbridge Gas shall monitor the impacts of construction, and shall file with the OEB an electronic copy (searchable PDF) version of each of the following reports:
 - a) A post construction report, within three months of the in-service date, which shall:
 - i. Provide a certification, by a senior executive of the company, of Enbridge Gas' adherence to Condition 1.

Condition 1

Enbridge Gas Inc. (Enbridge Gas) shall construct the facilities and restore the land in accordance with the OEB's Decision and Order in EB-2020-0136 and these Conditions of Approval.



Conditions of Approval
Application under Section 90(1) of the OEB Act
Enbridge Gas Inc.
EB-2020-0136
December 17, 2020

I hereby certify that Enbridge Gas Inc. has obtained all other approvals, permits, licences, and certificates required to construct, operate and maintain the proposed project in accordance with the OEB's Decision and Order in EB-2020-0136, Schedule B, Condition 7 (a)(v).

3-Mar-2023

Date

A handwritten signature in black ink, appearing to read 'JB', followed by a horizontal line.

Jennifer Burnham

Director, Field Services and Growth



Enbridge Gas Inc.

Condition 7 (a)(v).

7. Both during and after construction, Enbridge Gas shall monitor the impacts of construction, and shall file with the OEB an electronic copy (searchable PDF) version of each of the following reports:
 - a) A post construction report, within three months of the in-service date, which shall:
 - v. Provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licences, and certificates required to construct, operate and maintain the proposed project.


Appendix B

Restoration Log

Location	Site Condition	Additional Work Recommended (Y/N)	Comments/Recommendations	Representative Photo (February 8, 2023)	
Western limit of NPS 20 installation.	Asphalt replaced. No evidence of sedimentation from Project activities.	N	No issues to report at the time of inspection.		
Lakeshore Boulevard West and Dan Leckie Way intersection ROW.	Seed applied to exposed soils. No settlement issues observed. Area revegetated and stable.	N	No issues to report at the time of inspection.		

Location	Site Condition	Additional Work Recommended (Y/N)	Comments/Recommendations	Representative Photo (February 8, 2023)
ROW east of Dan Leckie Way intersection.	Regraded and seeded. No erosion observed at time of inspection.	N	No issues documented at time of inspection.	
Conduit within ROW draining surface water from the Gardiner Expressway.	Sediment accumulation observed at discharge point is not related to Project activities.	N	No issues documented at time of inspection.	

Location	Site Condition	Additional Work Recommended (Y/N)	Comments/Recommendations	Representative Photo (February 8, 2023)
ROW beneath Gardiner Expressway.	<p>Area has been regraded.</p> <p>No evidence of erosion or offsite sedimentation transport from site. Area restored to pre-construction conditions.</p>	N	No issues documented at time of inspection.	
North side of Lakeshore Boulevard West, near Rees Street.	<p>Area is currently occupied by a different contractor.</p> <p>All materials on site are not related to the Project.</p> <p>Area was regraded and not observed to be contributing to offsite sediment transport.</p>	N	No issues documented at time of inspection.	

Location	Site Condition	Additional Work Recommended (Y/N)	Comments/Recommendations	Representative Photo (February 8, 2023)	
Eastern limit of construction at Cherry Street.	<p>Project area has been assumed by a different contractor.</p> <p>Sediment issues are assumed to be related to others currently operating in the area.</p>	N	No issues documented at time of inspection.		
Lakeshore Drive (Porsche Dealership).	Servicing being completed at time of inspection.	N	No issues documented at time of inspection.		