

ONTARIO ENERGY BOARD

IN THE MATTER OF the *Ontario Energy Board Act, 1998*,
S.O. 1998, c. 15 (Sched. B), as amended (the “OEB Act”);

AND IN THE MATTER OF an application by Enbridge Gas
Inc. under section 90 of the OEB Act for an order or orders
granting leave to construct natural gas distribution pipelines
and ancillary facilities in the City of Toronto.

INTERROGATORIES OF THE CITY OF TORONTO

AVOIDING INFRASTRUCTURE CONFLICTS

1. Reference: Application and Evidence, 2020-07-31, Exhibit B, Tab 1, Schedule 1, Page 2 of 30

Reference: Application and Evidence, 2020-07-31, Exhibit C, Tab 1, Schedule 1, Attachment 2, Page 32 of 106 (page 86 of PDF)

Preamble: Enbridge states that “[t]he potential consequences of a failure are amplified as the C2B segment is located in a high consequence area including characteristics such as wall-to-wall concrete, a densely populated downtown core with residential, commercial and critical customers, the Gardiner Expressway, utility congested road allowance, and close proximity to railway/public transportation.”

Enbridge's routing study did not consider or fully map the support columns under the Gardiner Expressway (the “Gardiner”). It states that:

...it is recommended that further survey work be completed to map the locations and extents of the [Gardiner] support columns. Once this data has been obtained, it could be included in the Base Case model with the columns as exclusion area (or high constraint) plus a buffered setback to further gauge the feasibility of constructing a pipeline in this road allowance.

This is a very dense urban area with third party projects continuing to be proposed within the Study Area. The results of this Study are from information known at this time. Other corridor options or changes to existing routes could be made in the future by combining individual nodes and segments once more detailed information and new development information, including regulatory, stakeholder and/or public feedback, is available.

There are extensive Toronto infrastructure projects along the Project's preferred route, with complex construction phasing, coordination, and staging.

Question: How will Enbridge avoid conflict between its Project and planned Toronto works on the Project route, including:

- a. the Gardiner Expressway ("Gardiner") rehabilitation, inclusive of the proposed location of new bents from the Gardiner East Environmental Assessment;
- b. the Cherry Street watermain replacement;
- c. the Yonge Street watermain replacement;
- d. the Yonge Street sanitary sewer replacement;
- e. the Lower Jarvis watermain replacement;
- f. the Cooper Street sewer rehabilitation;
- g. roadworks, including along Lakeshore Avenue East;
- h. watermain replacement on Bathurst Street, and;
- i. bikeway construction on Dan Leckie Way.

2. Question: Has Enbridge mapped the location of its proposed pipeline relative to the Gardiner footings? If so, please provide this mapping. If not, when will Enbridge complete this mapping, and will it provide this mapping to Toronto when it is available?
3. Question: How will Enbridge ensure that the structural integrity of the Gardiner Expressway is not compromised by its Project?
4. Question: Please provide alignment sheets for the Project, showing the depth of cover, any proposed valves or chambers, *etc.* If alignment sheets have not yet been prepared, please:
 - a. confirm when they will be prepared, and provide them to Toronto at that date, and;
 - b. provide the most accurate and detailed information Enbridge has available on the Project alignment, including the location and depth of any valves or chambers.
5. Question: Please provide the most detailed available map of the Project route.
6. Question: Please confirm that Enbridge will, if requested by Toronto, provide as-built plans of its Project to Toronto.
7. Question: Will Enbridge pay for any relocation that may be required of its proposed new pipeline or the decommissioned pipeline, where one or both conflict with currently-planned Toronto capital projects?
8. Reference: Enbridge Gas Inc. NPS 20 Replacement Cherry to Bathurst Environmental Report (the "Environmental Report"), page 22

Preamble: The Environmental Report states that "lands located approximately 30 m on each side of the road right-of-way...can be used to site temporary facilities".

Question: Please:

- a. provide a map of the actual Project footprint, including all temporary facilities;
- b. advise if the Project footprint will occupy any areas outside of the Lakeshore and Parliament road allowances;
- c. advise if the Project footprint will occupy any parks. If so, please confirm the dates that Enbridge proposes to occupy them, and;
- d. confirm how Enbridge intends to avoid interference with parks and damage to trees from its Project.

9. Reference: Application and Evidence 2020-07-31, Exhibit D, Tab 1, Schedule 1, page 4 of 5

Preamble: Enbridge states that "Project construction is expected to take approximately 16 months. Construction of the Project is expected to commence in June 2021. The Project is expected to be in service by August 2022 and Project construction is expected to be completed by September 2022".

Toronto is concerned about the potential for disruption caused by a 16-month construction period.

Question: Please:

- a. provide a detailed construction timeline;
- b. confirm why Enbridge anticipates a 16 month construction period, and;
- c. confirm if there are any periods for which Enbridge cannot perform construction activities, e.g. winter, and if so confirm why work cannot be performed.

10. Question: Please:

- a. confirm the method and timing of restoration, for roads and any other construction areas;
- b. specify the timing and sequence of restoration relative to other Project construction activities,
- c. specify how restoration activities are affected by weather conditions, e.g. winter weather, and;
- d. confirm that Enbridge will permanently restore its construction zone immediately after completing its underground work, in order to minimize disruption to traffic.

NEED FOR PIPELINE REPLACEMENT

11. Reference: Application and Evidence 2020-07-31, Exhibit B, Tab 1, Schedule 1, page 1-2 of 30

Preamble: Enbridge states that "[t]he segment of pipeline to be replaced is part of the NPS 20 HP ST natural gas main known as the Kipling Oshawa Loop (KOL)."

Enbridge states that "mains installed in the 1970s and prior thereto, have demonstrated declining health compared to steel mains installed after the 1970s". Enbridge further states that the Kipling Oshawa Loop is a vintage steel main.

Question: Please:

- a. provide a map of the complete Kipling Oshawa Loop;
- b. confirm which pipeline segments the Project will tie into;
- c. confirm the age of the existing Cherry to Bathurst pipeline segment, and;
- d. confirm the age of the remaining sections of the Kipling Oshawa Loop, including the dates that any sections were replaced and their length.

12. Reference: Application and Evidence 2020-07-31, Exhibit B, Tab 1, Schedule 1, page 5-6 of 30

Preamble: Enbridge advises that its 2016 inline inspection from Cherry to Parliament Street found two areas that required integrity digs. These integrity digs were done in 2017. The inspection also found several anomalies which would likely require remediation or replacement. A 2018 inline inspection also found numerous anomalies which would likely require remediation or replacement.

Question: Please provide the 2016 and 2018 inline inspection reports and/or results, as well as any other documents on the condition of the Kipling to Oshawa pipeline and the need for it to be replaced.

13. Question: If the existing pipeline were not replaced, and with reasonable maintenance activities, how long would Enbridge be able to safely and reliably operate it?
14. Question: Please provide a map indicating the location of the integrity digs and anomalies for the existing Cherry to Bathurst pipeline segment.
15. Question: Please confirm whether:
- a. the operation of the existing pipeline is approved by the Technical Standards and Safety Authority ("TSSA"), and whether;
 - b. Enbridge requires approval from the TSSA for the construction and operation of its Project, including the decommissioning of the existing pipeline.
16. Question: How does Enbridge's Project account for future growth in demand for gas in the areas it serves, and will a further pipeline replacement be necessary to accommodate this growth?
17. Question: Please confirm the following:
- a. does Enbridge plan to do any maintenance or reconstruction activity on other segments of the Kipling Oshawa Loop;

- b. if so, please describe the proposed works, including their scope, location, and anticipated dates;
- c. if so, how will Enbridge coordinate this work with the Project work, and;
- d. what further investigation, if any, is necessary to confirm the required maintenance or reconstruction work? Please break this down by location/pipeline segment.

CONSTRUCTION IMPACTS

18. Reference: Application and Evidence 2020-07-31, Exhibit C, Tab 1, Schedule 1, Attachment 2, pages 37-39 of 106 (pages 91-93 of PDF)

Preamble: Enbridge advises that bridges and water crossings "may require additional engineering cost/complexity or mitigation".

Question: Please:

- a. confirm if Enbridge's proposed pipeline run along any bridges and/or have any water crossings;
- b. if so, provide a map indicating their length and location, and;
- c. if so, provide on request by Toronto complete, site-specific water crossing plans and specifications when they are available.

19. Reference: Application and Evidence 2020-07-31, Exhibit D, Tab 1, Schedule 1, page 1 of 5

Preamble: Enbridge advises that "[t]he method of construction will be a combination of open trench and trenchless technology".

Question: Please:

- a. provide a map indicating where trench or trenchless technology will be used to construct the Project, and;
- b. confirm the rationale for the use of trenched or trenchless technology along the Project route.

20. Reference: Application and Evidence 2020-07-31, Exhibit C, Tab 1, Schedule 1, page 10 of 12

Preamble: Enbridge indicates that it will prepare an Environmental Protection Plan for the Project.

Question: Please:

- a. provide the Project-specific Environmental Protection Plan if it has been completed;
- b. if it has not been completed, confirm when it will be completed, and;
- c. if it has not been completed, consult with Toronto on its preparation and provide it on request to Toronto when it has been completed.

21. Reference: Application and Evidence 2020-07-31, Exhibit B, Tab 1, Schedule 1, page 3 of 30

Preamble: Enbridge indicates that the external environment of the existing pipeline includes contaminated soil.

Question: Please provide Enbridge's Project-specific Contaminated Materials Management and Handling Plan. If it is not yet complete, please advise when it will be completed and confirm that Enbridge will provide it upon Toronto's request.

22. Reference: Environmental Report, page 81 (page 89 of PDF).

Preamble: Enbridge's Environmental Report notes that "[t]he Project is located in downtown Toronto where traffic levels are high and there are various ongoing developments. Construction may cause traffic disruptions".

These traffic disruptions may be compounded by closure of the Gardiner during scheduled major revitalization works.

Question: Please:

- a. provide Enbridge's complete, Project-specific traffic management analyses plans;
- b. specify Enbridge's proposed construction work hours, including whether these will include evenings and weekends;
- c. specify how Enbridge will account for Gardiner closures during Project construction;
- d. specify how Enbridge will minimize impacts on vehicle, pedestrian, cyclist, and transit traffic;
- e. advise as to how Project design and construction will minimize impacts to Toronto transit facilities such as the Bathurst and Spadina streetcar tracks (e.g. use of trenchless construction), and;
- f. confirm that Enbridge will consult with Toronto staff on its traffic management plans.

23. Preamble: Enbridge was granted leave to construct its Don River 30" Pipeline Project (EB-2018-0108) in the Ontario Energy Board's Decision and Order dated November 29, 2018. That pipeline travels through a central area of Toronto.

Question: Are there any "lessons learned" from Enbridge's Don River project that it can apply to this Project, e.g. on avoiding or minimizing infrastructure conflicts, traffic management, or construction close to the Gardiner? If so, please describe them.

LAND ISSUES

24. Reference: Application and Evidence 2020-07-31, Exhibit E, Tab 1, Schedule 1, page 1 of 4

Preamble: Enbridge notes that the Preferred Route for the Project may require a bylaw or easement where municipal road allowances are not dedicated. It further notes that permanent easements are not required.

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Question: Please:

- a. confirm that Enbridge is not seeking any easements from Toronto;
- b. if Enbridge is seeking easements from Toronto, please provide a detailed map of their location, and;
- c. if Enbridge is seeking easements from Toronto, advise if these are permanent or temporary easements.

EMERGENCY MANAGEMENT

25. Reference: Environmental Report, pages 91, 93

Preamble: Enbridge notes a potential effect of "[p]ipeline failure resulting in a leak of gas". It lists as a mitigation measure "implement applicable sections of Enbridge's internal protocols for safety, pre-emergency preparedness, and emergency response".

Enbridge states that mitigation measures can be found in its Construction and Maintenance Manual (2020).

Question: Please:

- a. provide Enbridge's Construction and Maintenance Manual;
- b. provide Enbridge's emergency response plans for the construction and operation of the Project;
- c. confirm if Enbridge will have an emergency response team available in the event of a pipeline emergency, and their response time (accounting for downtown traffic conditions);
- d. advise if Enbridge will conduct emergency training exercises for the proposed pipeline. If so:
 - i. please describe these exercises;
 - ii. will Enbridge share details of, and invite Toronto emergency staff to observe and participate in, these exercises;
- e. confirm that Enbridge will maintain for Toronto emergency staff a 24 hours a day, 7 days a week contact line to enable immediate contact with Enbridge emergency management staff, should the need arise.

26. Reference: Application and Evidence 2020-07-31, Exhibit B, Tab 1, Schedule 1, page 13 of 30

Preamble: Enbridge notes that "[a]ny pipeline defects or failures that could or do release gas into the atmosphere would most likely require a large emergency response and mitigation effort.

Question: Does Enbridge anticipate relying on Toronto's emergency responders in the event of a pipeline leak, explosion, fire, or other emergency?

27. Question: Is Enbridge willing to provide, at its cost, emergency response training required for Toronto emergency staff to prepare for the construction and operation of the Project?

28. Question: Please confirm that:

- a. Enbridge will send, at its cost and on Toronto's request, a technical specialist to Toronto's emergency operations centre to assist in responding to a pipeline emergency, and;
- b. if so, that Enbridge will pre-identify the technical specialist to Toronto, and update this information as it changes.

29. Question: Will Enbridge provide at its cost a communications staff person/public information officer, upon request by Toronto, to assist in public communications coordination in a pipeline emergency?

30. Question: Is Enbridge agreeable to meeting annually with Toronto staff to review Toronto's emergency plans with a focus on Enbridge infrastructure and emergency management?

FINANCIAL ASSURANCES

31. Reference: Application and Evidence 2020-07-31, Exhibit E, Tab 1, Schedule 1, Attachment 1, Page 2 of 4

Preamble: Enbridge's standard form of working area agreement provides for Enbridge maintaining comprehensive general public liability insurance, with the landowner as an additional insured. The agreement acknowledges the possibility of claims arising from Enbridge's operations.

Question: Please confirm:

- a) the name of the corporate entity(s) that will (1) own and (2) operate Enbridge's proposed pipeline, and;
- b) if there are multiple corporate entities, their relationship to each other.

32. Question: Please:

- a) confirm what insurance coverage Enbridge has in place for the construction and operation of the Project, and the decommissioning of the existing pipeline, including the limits and deductibles for this coverage, and;
 - b) advise if Enbridge will add Toronto as an additional insured under this insurance.
33. Question: Please detail the insurance arrangements, including types of insurance, limits, and deductibles, for Enbridge's contractors, subcontractors, and suppliers for the Project.
34. Question: is there a risk that Enbridge will be unable to satisfy costs and claims associated with a pipeline emergency such as a fire or explosion?

GENERAL

35. Question: Please confirm that Enbridge will comply with all Toronto bylaws and obtain all necessary approvals, permits, licences, and certificates required to construct, operate and maintain the Project.
36. Reference: Environmental Report, Public Correspondence G-15, page 265 of PDF.

Preamble: the Environmental Report states that "the existing pipeline will be decommissioned in place once the new pipeline is installed and active".

Question: Please:

- a) confirm what will happen to Enbridge's existing pipeline that the Project will replace;
- b) advise if any portions of the existing pipeline will be reused for the new proposed pipeline;
- c) advise if Enbridge retaining the option of reactivating the existing pipeline. If so, what approvals would be required for reactivation;
- d) If the existing pipeline will remain in place, confirm what maintenance and/or monitoring of it Enbridge will perform, and;
- e) provide the rationale for Enbridge's treatment of the existing pipeline.