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October 17, 2019

VIA EMAIL, RESS and COURIER

Ms. Kirsten Walli Ontario Energy Board 2300 Yonge Street, 27th Floor Toronto, ON M4P 1E4

Dear Ms. Walli:

Re: Enbridge Gas Inc. Ontario Energy Board File No.: EB-2019-0187 Saugeen First Nation Community Expansion Project

Enclosed please find the application and evidence of Enbridge Gas Inc. ("Enbridge") for the Saugeen First Nation Community Expansion Project.

Union Gas Limited ("Union") and Enbridge Gas Distribution Inc, amalgamated effective January 1, 2019 to become Enbridge Gas. To the extent that there are any references to Union in the Application, it is assumed to be Enbridge Gas

In terms of background, on May 7, 2018 Union filed an Application (EB-2018-0142) with the Ontario Energy Board ("OEB"), for Orders pursuant to Section 36 (1) and Section 90 of the *Ontario Energy Board Act*, to construct three Community Expansion Projects: Chippewas of the Thames First Nation, North Bay (Northshore and Peninsula Roads), and Saugeen First Nation (collectively referred to as the 2019 Community Expansion Project).

In a letter dated November 29, 2018, the OEB notified Union that its 2019 Community Expansion Project was being held in abeyance due to uncertainty around government funding availability at that time. More specifically, until such time as the proposed *Access to Natural Gas Act, 2018* and associated regulations¹ were finalized.

On December 6, 2018, the *Access to Natural Gas Act, 2018* received Royal Assent and on March 11, 2019 Enbridge Gas received notification that funding would be available for the Community Expansion Projects. Now that this source of government funding is confirmed, Enbridge Gas is filing the Saugeen First Nation Community Expansion Project with a proposed in-service date of fall 2020.

¹ Access to Natural Gas Act, 2018 Bill 32/Ontario Regulation 24/19 Expansion of Natural Gas Distribution Systems

In the event that you have any questions on the above or would like to discuss in more detail, please do not hesitate to contact me at (416) 495-5642.

Yours truly,

(Original Signed)

Asha Patel Technical Manager, Regulatory Applications

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A – Administration

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ONTARIO ENERGY BOARD

IN THE MATTER OF the Ontario Energy Board Act, 1998, S.O. 1998, c.15, Schedule B, s.90 (1) thereof;

AND IN THE MATTER OF the Ontario Energy Board Act, 1998, S.O. 1998, c.15, Schedule B, s.36 thereof;

AND IN THE MATTER OF an Application by Enbridge Gas Inc. for an Order or Orders for approval of Enbridge Gas Inc. to construct natural gas pipelines and ancillary facilities required to serve the community of Saugeen First Nation.

ENBRIDGE GAS INC.

- 1. Enbridge Gas Inc. (the "Applicant" or "Enbridge Gas") is a business corporation under the laws of the province of Ontario.
- Union Gas Limited ("Union Gas") and Enbridge Gas Distribution amalgamated effective January 1, 2019 to become Enbridge Gas. To the extent that there are any references to Union Gas in the Application, it is assumed to be Enbridge Gas.
- 3. The Community Expansion Project subject to this Application is in response to the Ontario Energy Board's ("the Board") initiative to address the Ontario government's desire to expand natural gas distribution systems to communities that currently do not have access to natural gas. The parameters of Enbridge Gas' proposal are designed to meet the minimum economic feasibility criteria as designed in EB-2016-0004, the Board's Generic Community Expansion proceeding.

- 4. This Application will allow Enbridge Gas to construct natural gas pipelines and ancillary facilities required to serve the community of Saugeen First Nation.
- 5. Attached to this Application is a map showing the general location of the proposed pipeline and associated facilities and the municipalities, and highways through, under, over, upon or across which the pipeline will pass.
- 6. Enbridge Gas requests that this Application proceed by way of written hearing in English.
- 7. Enbridge Gas hereby applies to the Board pursuant to the *Ontario Energy Board Act* ("the Act"), for an Order or Orders granting:
 - (i) Pursuant to Section 90 (1) of the Act, granting leave to construct approval for the natural gas pipelines and ancillary; and
 - Pursuant to Section 36 of the Act approval of a System Expansion Surcharge ("SES") rate.
- 8. Enbridge Gas further applies to the Board for all necessary Orders and directions concerning pre-hearing and hearing procedures for the determination of this Application.
- 9. The parties affected by this Application are the owners of lands, government agencies and municipalities over which the pipeline will be constructed, and Enbridge Gas' distribution customers with respect to quality of service and security of supply. The persons affected by this Application are the customers resident or located in the Municipalities, the First Nation Reserves and Métis organizations served by Enbridge Gas, together with those to whom Enbridge Gas sells gas, or on whose behalf Enbridge Gas distributes, transmits or stores gas. It is impractical to set out in this Application the names and addresses of such persons because they are too numerous.

10. Enbridge Gas requests that all documents in relation to the Application and its supporting evidence, including the responsive comments of any interested party, be served on Enbridge Gas and its counsel as follows:

Ms. Asha Patel Technical Manager, Regulatory Applications

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-and-

Mr. Guri Pannu Senior Legal Counsel, Regulatory

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Dated: October 17, 2019

ENBRIDGE GAS INC. [original signed by]

Asha Patel Technical Manager, Regulatory Applications

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BACKGROUND AND OVERVIEW

 The purpose of this evidence is to support an Application seeking approval from the Ontario Energy Board ("OEB" or "the Board") for the expansion of Enbridge Gas Inc.'s ("Enbridge Gas") distribution system to the Saugeen First Nation community.

BACKGROUND

- 2. In April 2017, the Province of Ontario introduced a Natural Gas Grant Program ("NGGP") intended to provide adequate funding to make certain natural gas expansion projects economically feasible. The program intake period was initiated immediately and culminated July 31, 2017. During that time, Union Gas Limited ("Union Gas") submitted a number of NGGP funding applications to the Government of Ontario for consideration. These applications included funding requests for Saugeen First Nation, North Bay (Northshore and Peninsula Roads) and Chippewas of the Thames First Nation. In December 2017, Union Gas received notification that each of these expansion projects was selected for conditional funding from the NGGP. See Exhibit B, Tab 2, Schedule 15.
- 3. On May 7, 2018, Union Gas filed an application (EB-2018-0142) with the Board for approval to construct the three expansion projects noted above (the "2019 Community Expansion Project"). Subsequent to this, on September 26, 2018, Union Gas was informed by the Ministry of Infrastructure that funding under the NGGP would no longer be available. See Exhibit B, Tab 2, Schedule 16. On November 29, 2018, Union Gas was informed by the Board that the 2019 Community Expansion Project proceeding was placed in abeyance due to this loss of funding. See Exhibit B, Tab 2, Schedule 17.
- On December 6, 2018, the Access to Natural Gas Act Bill 32/Ontario Regulation 24/19 Expansion of Natural Gas Distribution Systems received Royal Assent.

- 5. With respect to the Chippewas of the Thames expansion project, on March 11, 2019, Enbridge Gas was informed that \$1.43 million of funding would be available for this project under the Access to Natural Gas Act (Bill 32), and the publication of Ontario Regulation 24/19 Expansion of Natural Gas Distribution Systems. This expansion project was filed on April 24, 2019 (EB-2019-0139). Enbridge Gas was also informed that \$1.8 million of funding was available for the Saugeen First Nation and \$8.67 million for the North Bay (Northshore and Peninsula Roads) expansion projects.
- Enbridge Gas is planning to construct the Saugeen First Nation Community Expansion Project in May 2020 in order to meet a fall 2020 in-service date. To meet this timing, Enbridge Gas respectfully requests the Board issue a decision no later than February 2020.
- 7. Enbridge Gas's original evidence for the Saugeen First Nation expansion project as filed in EB-2018-0142 has been updated to reflect these new developments and filed here as EB-2019-0187. These details include a project summary, market profile, proposed facilities, project costs, economic feasibility, pipeline design and construction, environmental matters, land matters, and indigenous consultations.
- Enbridge Gas will be filing the North Bay (Northshore and Peninsula Roads)
 Community Expansion Project at a later date.

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PROJECT SUMMARY

- First Nation Officials, Residents, and Business Owners in the Saugeen First Nation north of Southampton ("Project Area"), in the Bruce County, have requested natural gas service from Enbridge Gas ("the Project" or "Proposed Facilities"). The Saugeen First Nation has a population of 1,883 with 805 people living on the reserve.
- 2. The Project will make natural gas available to 146 existing residential premises and 30 existing commercial establishments. Expansion of the natural gas distribution system to the Project Area will further the Ontario Government's desire to have gas distribution service made available to communities that are currently not served to help support greater consumer choice, economic growth and new jobs
- On March 8, 2019 the Government of Ontario conditionally awarded up to \$1.8 million of funding to Enbridge Gas under the Access to Natural Gas Act and Ontario Regulation 24/19 Expansion of Natural Gas Distribution Systems to construct natural gas pipelines to serve the Saugeen First Nation.
- 4. To meet the demands for natural gas in this area, Enbridge Gas requests approval pursuant to Section 90 (1) of the Ontario Energy Board Act ("the Act"), for leave to construct approximately 16 kilometers of pipeline in the Saugeen First Nation, the Township of Arran-Elderslie, and the Town of South Bruce Peninsula. The Proposed Facilities will also involve the installation of a distribution regulating station.
- A map showing the Proposed Facilities from an origin point on Enbridge Gas' Port Elgin/Southampton system to the Saugeen First Nation can be found at Exhibit B, Tab 2, Schedule 1.

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- 6. Enbridge Gas is planning to develop a local distribution network which will serve approximately 30 potential customers in the first year of the Project. These customers are not known at the time of the filing. Detailed maps of the service area will be finalized prior to construction.
- 7. Enbridge Gas is also asking for approval of a System Expansion Surcharge ("SES") rate under Section 36 of the Act. Details of the SES are as follows.
- 8. Enbridge Gas' proposal to serve the Saugeen First Nation consists of the following two rate components:
 - Applicable rates from Enbridge Gas' Rate M1 and M2 rate schedules, as amended from time to time, will apply to customers in the Proposed Project Area; and,
 - A SES applied to customers for a 40-year period¹, to enable the new general service customers to contribute additional funds towards the economic feasibility of the Proposed Project in excess of the funds derived from existing rate schedules. Details are provided below.

9. <u>SES</u>

Enbridge Gas proposes the extension of the single, volumetric-based SES, as approved by the Board in EB-2015-0179, to the Proposed Project Area. This mechanism provides a means for customers to be served by the Proposed Project to contribute a portion of their annual savings toward natural gas system expansion feasibility. When customers served by the Proposed Project convert to natural gas, they will pay the SES for a defined period of time of up to 40 years² as a contribution toward recovery of the cost of the Proposed Project.

The proposed SES is consistent with the Board's view that

¹ A 40-year SES term is required for the Proposed Project to reach a P.I. of 1.0 after including funding as Contribution in Aid of Construction ("CIAC").

² A customer who connects after year 1 will only be required to pay the SES for the remaining balance of the 40-year term.

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An incumbent utility with existing rates may still propose to collect a surcharge over and above those rates to make up for the shortfall in revenues to cover the cost of expansion³.

- 10. The SES will appear on an expansion area customer's monthly bill as an extra line item, labelled "System Expansion Surcharge". For clarity, this line item will be in addition to other current gas bill line items, including for example charges for commodity, transportation, storage, delivery, and the fixed monthly charge, which are identified in current approved rate schedules. Potential customers will be informed of the details of the SES charge as the Proposed Project is developed, as well as at the time their application to Enbridge Gas for service is made. For customers who wish to equalize their monthly payments, Enbridge Gas' equal billing plan will be extended to include the SES.
- 11. Consistent with the EB-2015-0179 Decision, the SES will be treated as revenue for purposes of economic feasibility analysis of the Proposed Project.

Applicability

12. The SES will be applied to all general service customers (Rates M1 and M2) attaching to mains installed as part of the Proposed Project until the SES term for the Proposed Project expires. If a customer who is paying the SES sells their home or business, the SES will continue to apply for its original term to the new owner of that home or business. For clarity, a customer, who attaches to facilities installed as part of the Proposed Project a number of years after the Proposed Project enters service, will also be required to pay the SES for the remaining portion of the SES term.

³ EB-2016-0004 Decision with Reasons, p. 21.

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- 13. There are no potential customers in the Proposed Project Area that meet eligibility criteria for Enbridge Gas' contract rate classes.
- 14. To the extent that further extensions to the Community Expansion pipeline systems as proposed in this Application are made, Enbridge Gas proposes that at a minimum the SES applicable to the Proposed Project would be applied to customers attaching to those future extensions. This is consistent with the EB-2015-0179 provisions.⁴

<u>Rate</u>

- 15. Enbridge Gas proposes that the SES be set at \$0.23/m³, consistent with EB-2015-0179. Application of the SES at this level allows for annual savings when converting a typical home from competing primary fuel types. Enbridge Gas validated surcharges at this level were acceptable for potential customers for the EB-2015-0179 projects. Further, Enbridge Gas included the surcharge in savings estimates referenced in telephone or door-to-door surveys for the Proposed Project Area, and determined forecasted attachments based on the results of these surveys. For these reasons, Enbridge Gas submits that the SES of \$0.23/m³ is appropriate for the Proposed Project⁵.
- 16. The SES will be fixed at \$0.23/m³ throughout the duration of the SES term. Enbridge Gas proposes that this approach meets the Board's requirement for "a minimum rate stability period of 10 years (for example)"⁶. While the SES for applicable customers will be added to the Rate M1 and M2 charges on each bill, and the existing rates may change over time, a fixed SES rate provides a large measure of stability for periods of longer than 10 years.

⁴ EB-2015-0179 Exhibit A, Tab 1 Addendum, p. 8.

⁵ Enbridge Gas Distribution also obtained OEB approval for \$0.23/m3 for the Fenelon Falls project in EB-2017-0147.

⁶ EB-2016-0004 Decision with Reasons, p. 20.

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<u>Term</u>

- 17. Consistent with EB-2015-0179, the SES term will begin when the Proposed Project goes into service and expire at the end of the calendar year required for the Proposed Project to meet a P.I. of 1.0. For the Proposed Project in this application the SES term will extend for the full economic life of the Proposed Project, since a full 40-year term is required to reach the minimum P.I. of 1.0. Every general service customer who connects to the system will be subject to the SES from the date of their connection until the end of the term. At the end of the defined term, the SES will be terminated for every customer attached to the Proposed Project, regardless of when the customer connected to the Proposed Project.
- 18. To the extent any further extensions to the pipeline systems proposed in this Application are made, at a minimum Enbridge Gas proposes that the approved SES term for the Proposed Project be applied to customers attaching to those future extensions. However, the term for future extension customers may be extended beyond the initial term, and/or Contribution in Aid to Construct ("CIAC") may be assessed, if necessary, for the future extension to meet a minimum P.I. of 1.0.

Requested Board Approvals

19. Enbridge Gas is asking for approval under Section 36 of the Act, a SES rate (amount and term) for the Proposed Project Area as shown in Table 1.

<u>Project</u>	SES Rate	SES Term Expiry ⁷
Saugeen First Nation	\$0.23/m ³	November 1, 2060

Table 1: SES Rate Approvals

⁷ SES Term Expiry is contingent on the proposed project going into service in November 2020.

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Rate Stability Period

- 20. Enbridge Gas proposes that the Rate Stability Period for the Proposed Project be 10 years. This is consistent with the Board requirement for "a minimum rate stability period of 10 years (for example)"⁸. During this period, Enbridge Gas will bear the risk associated with variances between forecast and actual customer attachments, and their associated revenues.
- 21. Enbridge Gas currently holds a Franchise Agreement and Certificate of Public Convenience and Necessity for all the municipalities in which facilities are proposed to be installed. Enbridge Gas holds a Certificate of Public Convenience and Necessity (EBC 262) and Franchise Agreement (EBA 778) with the former Township of Arran. Enbridge Gas currently holds a Certificate of Public Convenience and Necessity (EBC 264) and Franchise Agreement (EBA 780) with the former Township of Amabel. Enbridge Gas also holds a Certificate of Public Convenience and Necessity (EBC 264) and Franchise Agreement (EBA 780) with the former Township of Amabel. Enbridge Gas also holds a Certificate of Public Convenience and Necessity (EBC 259) and Franchise Agreement (EBA 775) with the former Village of Tara within the Township of Arran-Elderslie.
- 22. Enbridge Gas will obtain a Section 28 (2) permit from Indigenous and Northern Affairs Canada ("INAC") to install the Proposed Facilities within the Saugeen First Nation.
- 23. The route for the Proposed Facilities was selected in order to optimize economic benefits and social features while minimizing environmental impacts.
- 24. Enbridge Gas forecasts that 89 customers within the Project area will have natural gas service by year 10.

⁸ EB-2016-0004 Decision with Reasons, p.20.

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- 25. The total 10-year capital cost of the Proposed Facilities is approximately \$3.3 million, minus the government grant of \$1.8 million, to equate to approximately \$1.5 million net investment from Enbridge Gas.
- 26. The Project has a net present value ("NPV") of \$0 and a profitability index ("PI") of 1.0.
- 27. An Environmental Protection Plan ("EPP") for the Project has been prepared by Enbridge Gas' Environmental Planning Department. Enbridge Gas' standard construction procedures combined with the appropriate supplemental mitigation measures recommended in the EPP will be employed to address environmental and public concerns.
- 28. Construction of the Proposed Facilities is expected to begin May 2020 and continue through to the fall of 2020 with an in-service date of November 2020.
- 29. The proposed pipeline and distribution regulating station facilities have been sized to meet the forecast future growth proposed in the Project area.

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MARKET PROFILE

Community Profile

- The Project area includes residents and businesses in the Chippewa Hill area of the Saugeen First Nation and customers along the Proposed Facilities between the take off point on the Port Elgin/Southampton high pressure pipeline system and the Saugeen First Nation. The Project has demonstrated support from residents and Band Council as described below.
- The community of Saugeen First Nation is located in Bruce County, along the shoreline of Lake Huron. As of 2017, the Saugeen First Nation had a population of 1,883 with 805 people living on the reserve.
- 3. The Saugeen First Nation encompasses residential and retail facilities and supports the surrounding tourism industry.
- 4. There are currently a total of 146 existing residential dwellings and 30 commercial establishments in the Project area which could potentially be served with natural gas.

Residential Questionnaire

5. A door-to-door questionnaire was completed for the private residents in the Project Area. The questionnaire informed residents about the Project, estimates of the cost to convert to natural gas, and information regarding a surcharge to contribute towards the cost of the Project. The questionnaire also requested information pertaining to dwelling characteristics, current fuel type, and interest in converting to natural gas-fuelled appliances.

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6. Of the 126 potential privately owned residential dwellings in the Saugeen First Nation, a total of 32 completed the door-to-door questionnaire.

Customer Attachment Forecast

- Enbridge Gas is forecasting a total of 65 existing residential and 24 small commercial customers will be attached by year 10 of the Project as outlined in the customer attachment forecast in Exhibit B, Tab 2, Schedule 2.
- 8. For the Top 3 box scores (extremely likely, very likely, and likely to convert), the results of the door-to-door questionnaire described above indicate that 43% of the total dwellings are interested in obtaining natural gas service. The door-to-door questionnaire provided residents with information about the additional SES surcharge.
- Based on discussions with the Saugeen First Nation, Enbridge Gas has assumed 100% of all Band-owned buildings will attach over the first 2 years of the Project. This is reflected in Exhibit B, Tab 2, Schedule 2.
- 10. Enbridge Gas asked participants of the questionnaire, who were interested in converting, the timing of when they would attach, and 100% indicated they would do so in the first 3 years. Enbridge Gas has taken a conservative approach and has spread the attachments over 10 years using the same approach as that applied to recent community expansion projects such as Milverton, Rostock and Warburg (EB-2015-0179).
- 11. Enbridge Gas has received support for the Project from the Saugeen First Nation in the form of a Band Council Resolution which is filed at Exhibit B Tab 2, Schedule 3.

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PROPOSED FACILITIES

- 1. The Proposed Facilities will connect to the Port Elgin/Southampton high pressure pipeline system south of the Saugeen First Nation. A distribution regulating station is proposed to be installed within road allowance at the corner of Bruce Road 17 and B Line to reduce the pressure in the system from high pressure to distribution system pressure in the proposed pipeline. The proposed NPS 4 pipeline will go north within the road allowance of B Line to the Saugeen First Nation. From here, the proposed pipeline will travel east and west to serve the Saugeen First Nation for a total of approximately 16 kilometers. A detailed drawing showing the Project is provided in Exhibit B, Tab 2, Schedule 4.
- 2. The proposed NPS 4 pipeline identified above was sized to meet the 10-year forecast growth in the Project area as well as additional growth both in and outside the Project area in the longer term. Enbridge Gas is proposing to construct a preferred design which consists of an NPS 4 pipeline. The minimum facilities to serve the 10-year load only require that an NPS 2 pipeline be constructed.
- 3. Past discussions with Saugeen First Nation Chief and Council have indicated they would like to serve a broader area of their community with natural gas in the future. The Saugeen First Nation is adjacent to the community of Southampton. The distribution network within Southampton does not have adequate capacity to serve the Saugeen First Nation. In the future, Enbridge Gas may use the Saugeen First Nation system as an alternative feed into the Southampton distribution network. This may provide for additional security of supply into Southampton but also for future reinforcement of the system. Further, Enbridge Gas wants to ensure minimal future disruption to the Highway 21 corridor. For these reasons, Enbridge Gas is proposing to upsize its facilities.

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4. Alternative routes were considered for the project; however, the proposed route maximized the total number of customers reached, while minimizing conflict with other utilities, and is the least costly. The proposed route is also the most direct route to the Saugeen First Nation community.

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PROJECT COSTS

- The total estimated 10-year capital cost for the Project is approximately \$3.3 million. This cost includes all pipeline and station costs of \$2.9 million and the cost of services of \$382,000 for the first 10 years of the Project. The Government Grant will offset the year one cost for a net capital investment by Enbridge Gas of \$1.5 million over the 10 years.
- Estimates of the first-year capital costs for the construction of the Proposed Facilities are provided in Exhibit B, Tab 2, Schedule 5a. Ten-year capital costs for both the Proposed Facilities and Minimum Facilities can be found in Exhibit B, Tab 2, Schedule 5b. The estimated costs cover all costs related to materials, construction and labour. This figure also includes estimated environmental costs.

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ECONOMIC FEASIBILITY

- 1. The Proposed Facilities are required in order to expand natural gas distribution to the Saugeen First Nation, and other areas outside the initial Project area.
- 2. A stand-alone Discounted Cash Flow ("DCF") analysis was completed for the proposed expansion. Enbridge Gas has employed an economic feasibility test consistent with the Board's recommendations in the *E.B.O. 188 Report on Natural Gas System Expansion*.
- The DCF for Saugeen First Nation can be found at Exhibit B, Tab 2, Schedule 6. This Schedule indicates a NPV of \$0 and PI of 1.0.
- 4. Capital used in the DCF is the cost of the design of the minimum sized facilities to support the attachment forecast. The difference in costs between the minimum sized facilities and the proposed system design is approximately \$777,000.
- 5. Union received conditional funding from the Province of Ontario to support the Project. The DCF analysis includes \$1.8 million of grant funding, which equates to the maximum grant level awarded by the Province for the Project. The grant funding will be treated as a contribution in aid to construct ("CIAC") in 2020. The net capital of the Project for 10 years is \$1.514 million.
- The DCF revenues include the System Expansion Surcharge ("SES") of \$0.23/m³ for 40 years and the payment offsetting Payments in Lieu of Taxes ("PILT") of \$4,774 per year for a period of 10 years.

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7. The key inputs, parameters and assumptions used in completing the DCF analysis can be found at Exhibit B, Tab 2, Schedule 7.

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DESIGN AND CONSTRUCTION

Design and Pipe Specifications

- The design and pipe specifications are outlined in Exhibit B, Tab 2, Schedule 8. All the design specifications are in accordance with the Ontario Regulations 210/01 under the Technical Standards and Safety Act 2000, Oil and Gas Pipeline Systems. This is the regulation governing the installation of pipelines in the Province of Ontario.
- As applicable, Class Location Designations will be in accordance with Table 4.1 of CSA Z662-15.
- 3. All polyethylene pipe and fittings will be manufactured and certified in accordance with the *Canadian Standards Association B137.4-17 Polyethylene (PE) Piping systems for Gas Services.* The pipe specifications are designed to provide the maximum operating pressure of 550 kPa. The pipeline will be tested in accordance with the requirements of the Ontario Regulation.
- 4. The minimum depth of cover to the top of the pipe and pipe appurtenances will be in accordance with the requirements of *Clause 12.4.7, and Clause 12.4.8 of the CSA Z662-15* for polyethylene piping. Additional depth will be provided to accommodate existing or planned underground facilities, or where greater depth of excavation is warranted.

Construction Procedures and Project Schedule

5. The Proposed Facilities will be constructed using Enbridge Gas's standard practices and procedures and will be in compliance with the mitigation measures identified in the Environmental Protection Plan ("EPP"). A summary of Enbridge Gas' standard

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construction methods can be found at Exhibit B, Tab 2, Schedule 9. Enbridge Gas' construction procedures are continually updated and refined to minimize potential impacts to the lands and the public.

- Material is readily available for the Project and Enbridge Gas foresees no problem in obtaining a contractor to complete the proposed construction. The EPP will be provided to the contractor.
- The proposed construction schedule for the Project can be found at Exhibit B, Tab 2, Schedule 10. Construction of the Proposed Facilities is expected to begin in summer of 2020 and continue through to the fall of 2020.
- Approvals are pending from the Saugeen First Nations, the Municipality of Arran-Elderslie, the Town of South Bruce Peninsula, Ministry of Transportation Ontario, Ministry of Tourism - Culture and Sport, Ministry of Natural Resources & Forestry, Saugeen Valley Conservation Authority, and Grey Sauble Conservation Authority.

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ENVIRONMENTAL MATTERS

- An Environment Protection Plan ("EPP") for the Proposed Facilities was prepared by Enbridge Gas's Environmental Planning Department. The EPP was prepared to meet the intent of the Board's document "Environmental Guidelines for Location, Construction and Operation of Hydrocarbon Pipelines and Faculties in Ontario" (7th Edition, 2016). A copy of the EPP is provided at Exhibit B-2-11.
- 2. The objectives of the EPP are to:
 - a) document existing environmental features;
 - b) identify agency, Indigenous and public concerns;
 - c) identify potential environmental impacts as a result of construction;
 - d) present mitigation techniques to minimize environmental impacts; and
 - e) provide pipeline contractors and environmental inspectors involved in the construction of the pipeline with general and site-specific guidelines for environmental protection that supplement Enbridge Gas' construction specifications.
- All pipelines will be constructed in the manner recommended and described in the Board document "Environmental Guidelines for Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario" (7th Edition, 2016).
- A copy of the EPP has been submitted to the Ontario Pipeline Coordinating Committee ("OPCC"), local municipalities, government agencies, and Indigenous communities. A summary of comments and Enbridge Gas' response is provided in Exhibit B, Tab 2, Schedule 12.

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- 5. There are a number of watercourse crossings associated with the Project and a final count will be confirmed with the Saugeen First Nation, Saugeen Valley Conservation Authority, and Grey Sauble Conservation Authority. Enbridge Gas will follow all permit conditions from the Regulating Agencies.
- 6. When the Project is constructed, the most up-to-date construction specifications will be followed.
- Enbridge Gas will ensure that the recommendations in the EPP, commitments and the conditions of approval are followed. An environmental inspector will be assigned to the Project to ensure that all activities comply with all of the Board's conditions of approval.
- The results of the EPP indicate that the environmental and socio-economic effects associated with construction of the Project are generally short-term in nature and minimal. There are no significant cumulative effects as a result of this pipeline construction.
- 9. After the EPP was submitted to the OPCC for review in April 2018, a review of the pipeline route was completed to ensure there were no changes to the identified environmental features. There were no changes to the identified environmental features along the pipeline route and it is anticipated that the implementation of the mitigation measures listed in the EPP and the additional measures described in the Natural Heritage Study (see section 10) will effectively eliminate any long-term impacts to the environment.
- 10. Enbridge Gas retained an independent third-party consultant to complete a Natural Heritage Study for the Project. Field surveys were conducted in August 2018 and

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mitigation measures were developed to ensure the natural environment and species at risk and species at risk habitat are protected during construction. Enbridge Gas will adhere to the mitigation measures recommended in the Study.

- 11. Enbridge Gas retained a licensed Archaeologist to complete an Archaeological Assessment for the Project. The Archaeological Assessment Report was submitted to the Ministry of Tourism, Culture and Sport on January 30, 2019 and approval was received on March 12, 2019. The Report concluded that future assessments are required on Denny's Dam Road and on Highway 21 between French Bay Road and Craig Street and the proposed pipeline route outside of these two areas should be considered free of archaeological concern. The assessments of Highway 21 and Denny's Dam Road as described above took place on July 12, 2019 and no artefacts were discovered. A subsequent report with these assessments was submitted to the Ministry of Tourism, Culture and Sport and is currently under review. After this submission a minor change to the pipeline route on B Line occurred requiring additional assessment by a licensed Archaeologist. Once this additional assessment is complete a report will be submitted to the Ministry of Tourism, Culture and Sport for review. If the extent of the Proposed Project Area changes to incorporate lands not addressed in previous Archaeological Assessments, further assessment will be completed as required.
- 12. Enbridge Gas retained a Cultural Heritage Specialist to complete a Cultural Heritage Study for the Project. The field study was completed in September 2018 and the report concluded that the Project is not anticipated to have adverse impacts on cultural heritage resources. The report was sent to the Ministry of Tourism, Culture and Sport on April 2, 2019 and was accepted by the Ministry on May 13, 2019.

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LAND MATTERS

- 1. The proposed pipelines will be located within road allowances.
- A Distribution Station will be required at the corner of Bruce Road 17 and B Line. The Station will be located within road allowance and constructed under Enbridge Gas's existing Franchise Agreement.

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INDIGENOUS CONSULTATION

- Enbridge Gas has an extensive database and knowledge of Indigenous and Métis Nation organizations in Ontario and consults with the Tribal organizations and the data bases of the Ontario Ministry of Natural Resource and Forestry, Ontario Ministry of Indigenous Affairs and Reconciliation, as well as Indigenous Affairs and Northern Development Canada to ensure consultation is carried out with the most appropriate groups.
- Enbridge Gas has signed a General Relationship Agreement with the Métis Nation of Ontario which describes Enbridge Gas's commitments to the Métis Nation when planning and constructing pipeline projects.
- In the 7th Edition of the Ontario Energy Board's Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario, the requirements for Indigenous and Métis consultation were enhanced.
- 4. The Board, working closely with the Ontario Ministry of Energy Northern Development and Mines ("MENDM"), revised the Indigenous consultation requirements to streamline and clarify the roles and obligations of the MENDM, the Board and Enbridge Gas.
- 5. Included in the Indigenous Consultation Report ("ICR") is a letter from Enbridge Gas to the MENDM, providing the MENDM with a Project description and requesting the MENDM identify any Indigenous communities who may be impacted by the Project.
- Included in the ICR is a letter from the MENDM to Enbridge Gas identifying which Indigenous communities will be impacted by the Project and formally delegating Enbridge Gas the responsibility to conduct consultation activities.

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- A copy of Enbridge Gas' ICR for the Project can be found at Exhibit B, Tab 2, Schedule 13. The ICR includes:
 - A summary of all meetings with Indigenous communities to date;
 - A summary of the concerns that were identified by the Indigenous communities and how the concerns were, or plan to be, addressed and/or accommodated; and
 - A complete record of all consultation activities to date.
 - 8. A copy of MENDM's review and confirmation of adequacy of the ICR can be found at Exhibit B, Tab 2, Schedule 14.



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Saugeen First Nation

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total	Ultimate Potentia	Total Attachment s
											_	% Potential
16	14	7	5	3	3	3	3	3	3	60	141	43%
3	2	0	0	0	0	0	0	0	0	5	5	100%
2	2	1	1	0	0	0	0	0	0	9	12	50%
6	6	0	0	0	0	0	0	0	0	18	18	100%
30	27	8	9	3	3	3	3	3	3	89	176	51%

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Classification

Residential Conversion - Privately Owned Residential Conversion - Band Owned Small Commercial - Privately Owned Small Commercial - Band Owned Total



SAUGEEN FIRST NATION # 29 BAND COUNCIL RESOLUTION OGIMAKANUK ENENBAM NOWAD

Saugeen Band Ph: (519) 797-2781 Fax: (519) 797-2978

The Council of the Saugeen First Nation # 29 Ogimahkanuk Sauking

6493 Hwy 21 Southampton Ontario N0H 2L0

5 June AD 2017 Day - Kejick Month - Geesis

MOTION NO. 10

Moved by: Steven Vanloffeld Seconded by: Mike Henry

BE IT RESOLVED

That we the Saugeen Band Council do hereby agree to sign the Natural Gas Grant Program Application.

Access to natural gas infrastructure is not available in Saugeen First Nation and access will provide more affordable and reliable energy;

Expanding access to natural gas within the Saugeen First Nation is a key strategic priority supported by Council; Access to natural gas for residents and businesses within our community and will provided an economic advantage. Natural Gas access can provide residents on higher-emitting fuels with a lower carbon energy source that will help reduce greenhouse gas emissions;

We do hereby resolve:

The Council of the Saugeen First Nation formally supports an application submitted by a natural gas distributor or supplier to the Government of Ontario, for a grant from the provincial Natural Gas Grant Program, to expand the natural gas system to service the Saugeen First Nation.

That Council supports making a financial contribution towards the proposed project in an amount equivalent to the Payments in Lieu of Taxes that would be recovered on the new natural gas infrastructure for a period of 10 years as per the natural gas grant program requirements; and

That Council supports that for one potential distributor, in addition to currently approved rates a system expansion surcharge of 23 cents per cubic metre from every customer for up to 40 years, will required to assist with the cost of extending natural gas within our community, but there is still significant energy savings to our community for our heating needs. That a copy of this Band Council Resolution be forwarded along with the application to Ontario's Natural Gas Grant Program.

5 in favor Carried

(Ogimah - Lester Anoquot)

(Anikeh-Ogimah-Randal Roote)

(Anikeh-Ogimah-Sonya Roote)

(Anikeh-Ogimah -Clint Root)

(Anikeh-Ogimah-Ken Roote)

Anikeh-Ogimah-Mike

(Anikeh-Ogimah-Lorne Mandawoub)

(Anikeh-Ogimah-Spencer Ritchie)

(Anikeh-Ogimah-Steven Vanloffeld)

(Anikeh-Ogimah-Cheree Urscheler)



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TOTAL ESTIMATED CAPITAL COSTS – YEAR 1 SAUGEEN FIRST NATION PROJECT

Total Estimated Capital Costs	\$3,076,374
	\$143,101
Sonvice Coste	\$31,434
Interest During Construction	\$264,666
Contingency	\$00,010
Station Labour and Materials	¢68.816
Lands)	\$178,295
Miscellaneous (X-Ray, Construction Survey,	\$141,750
Total Company Costs	ψ2,110,140
Total Contract Costs	\$2 113 149
Total Materials	\$135,163

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Saugeen First Nation											
Ten Year Costs Proposed Facilities											
	Year	1	2	3	4	5	6	7	8	9	10
Proposed Capital (\$000's)	Total										
Pipeline & Station Capital	2,933	2,933									
Service, M&R Installation	381	143	136	28	22	9	9	9	9	8	8
Total	3,314	3,076	136	28	22	9	9	9	9	8	8
Grant Funding	1,800										
Net Capital Required	1,514										
· · ·	1	I									

Saugeen First Nation											
Ten Year Costs Proposed Minimum											
	Year	1	2	3	4	5	6	7	8	9	10
Proposed Capital (\$000's)	Total										
Pipeline & Station Capital	2,156	2,156									
Service, M&R Installation	381	143	136	28	22	9	9	9	9	8	8
Total	2,537	2,299	136	28	22	9	9	9	9	8	8
Grant Funding	1,800										
Net Capital Required	737										

W A <th>geen First Nation ervice Date: Nov-01-2020 ect Year (\$000's)</th> <th>-</th> <th>5</th> <th>ო</th> <th>4</th> <th>ى م</th> <th>Q</th> <th>-</th> <th>œ</th> <th>თ</th> <th>10</th>	geen First Nation ervice Date: Nov-01-2020 ect Year (\$000's)	-	5	ო	4	ى م	Q	-	œ	თ	10
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snue 5 <td>enue</td> <td>6</td> <td>25</td> <td>34</td> <td>38</td> <td>40</td> <td>42</td> <td>43</td> <td>45</td> <td>46</td> <td>48</td>	enue	6	25	34	38	40	42	43	45	46	48
Revenue 5 14 20 22 23 24 25 26 27 Expense (1) (2) (3) (4) (6) (5) (5) (5) Expense (1) (7) (16) (16) (16) (16)	enue	5	5	5	5	5	S	5	5	5	5
Spense (1) (2) (3) (4) (4) (5) (7) (19) (10) (10) (10) (10) (10) (10) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (ר Revenue	2	14	20	22	23	24	25	26	27	28
Spense (1) (2) (3) (4) (5) (5) (5) (5) IT Tax $\frac{17}{17}$ $\frac{17}{12}$ $\frac{17}{18}$ $\frac{17}{18}$ $\frac{13}{18}$ $\frac{13}{28}$ $\frac{23}{28}$ $\frac{23}{21}$ $\frac{41}{24}$ $\frac{41}{45}$ $\frac{41}{42}$ $\frac{41}{48}$ $\frac{41}{42}$ $\frac{41}{48}$											
al Tax (17) (18) $\frac{1}{100}$ <	zpense	(1)	(2)	(3)	(4)	(4)	(2)	(2)	(2)	(2)	(9)
Tax $\frac{17}{100}$ $\frac{17}{100}$ $\frac{17}{100}$ $\frac{1}{100}$ $\frac{17}{100}$ $\frac{1}{100}$ $\frac{1}{100$	al Tax	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)
Inflow 18 29 38 41 43 45 47 48 48 W W W H 49 136 28 22 9 9 9 9 9 9 Morking Capital $$ $-$	Тах	17	4	(1)	(3)	(4)	(2)	(9)	(2)	(8)	(6)
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I Capital 499 136 28 22 9 9 9 9 9 9 Working Capital $ -$	M										
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ww 18 43 76 110 144 177 210 242 273 31 flow 499 629 654 673 680 687 693 705 75 7 iear (481) (586) (578) (563) (536) (510) (483) (47) (41) (41) (42) (42) (42) (41) ear - - - - - - - - Index 0.01 0.05 0.09 0.14 0.19 0.24 0.33 0.38 0	Net Present Value										
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ear (481) (586) (578) (563) (510) (483) (457) (432) (41 (41) (483) (457) (432) (41 	low	499	629	654	673	680	687	693	669	705	711
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	_	1.00	GU.U	0.09	0.14	0.19	0.24	0.29	0.33	0.38	0.42

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Saugeen First Nation InService Date: Nov-01-2020										
Project Year (\$000's)	늰	12	<u>51</u>	14	<u>15</u>	<u>16</u>	11	8	힌	<u>20</u>
<u>Cash Inflow</u>										
SES Revenue	49	49	49	49	49	49	49	49	49	49
PILT Revenue	ı	·	ı	ı	ı	ı	ı	·	ı	ı
Distribution Revenue	29	29	29	29	29	29	29	29	29	29
Expenses:										
O & M Expense	(9)	(9)	(9)	(9)	(9)	(2)	(2)	(2)	(2)	(2)
Municipal Tax	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)
Income Tax	(8)	(8)	(6)	(6)	(6)	(6)	(10)	(10)	(10)	(10)
Net Cash Inflow	47	47	46	46	46	45	44	44	44	44
Cash Outflow										
Incremental Capital	ı									
Change in Working Capital										
Cash Outflow										
Cumulative Net Present Value										
Cash Inflow	332	357	382	405	427	447	466	485	502	518
Cash Outflow	711	711	711	711	711	711	711	711	711	711
NPV By Year	(379)	(354)	(329)	(306)	(284)	(264)	(245)	(226)	(209)	(193)
Project NPV										
Profitability Index Bv Year Pl	0.46	0.49	0.53	0.56	0.59	0.62	0.65	0.68	0.70	0.73
Project PI										

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Saugeen First Nation InService Date: Nov-01-2020										
Project Year (\$000's)	21	32	23	24	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	29	<u>30</u>
Cash Inflow	ç	Q	0	Q	Q	Ç	Ç	Ç	0	ç
SES REVENUE PILT Revenue	1 2	י <mark>ו</mark>	1 0	, 1 ע	1 0	, 2	1 V	1 2	1 V	, 2
Distribution Revenue	29	29	29	29	29	29	29	29	29	29
Expenses:										
O & M Expense	(2)	(2)	(2)	(8)	(8)	(8)	(8)	(8)	(8)	(8)
Municipal Tax	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)
Income Tax	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(12)	(12)	(12)
Net Cash Inflow	43	43	43	42	42	42	42	41	41	41
Cash Outflow										
Incremental Capital	·				ı			I		ı
Change in Working Capital		•	.		.	 	·	•	.	•
Cash Outflow	, 									
Cumulating Not Bracant Value										
Cash Inflow	534	548	562	575	587	599	610	621	631	640
Cash Outflow	711	711	711	711	711	711	711	711	711	711
NPV By Year	(177)	(163)	(149)	(136)	(124)	(112)	(101)	(06)	(80)	(71)
Project NPV										
Profitability Index										
By Year PI Project PI	0.75	0.77	0.79	0.81	0.82	0.84	0.86	0.87	0.89	0.90

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Saugeen First Nation InService Date: Nov-01-2020										
Project Year (\$000's)	31	32	<u>33</u>	<u>34</u>	<u>35</u>	<u>36</u>	<u>37</u>	8	<u>3</u>	<u>40</u>
<u>Cash Inflow</u> SES Revenue	49	49	49	49	49	49	49	49	49	49
PILT Revenue		ı								
Distribution Revenue	29	29	29	29	29	29	29	29	29	29
Expenses:	Į	į	Į	į	Į	į	į	Į	į	Į
O & M Expense	(8)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
Municipal Tax	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)
Income Tax	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)
Net Cash Inflow	41	40	40	40	40	40	40	40	40	40
<u>Cash Outflow</u> Incremental Capital		·	,	·	,	ı	,		,	
Change in Working Capital	•									
Cash Outflow	•				י 			•	, 	
Cumulative Net Present Value										
Cash Inflow	649	657	665	673	680	687	693	669	705	711
Cash Outflow	711	711	711	711	711	711	711	711	711	711
NPV By Year	(62)	(54)	(46)	(38)	(31)	(24)	(18)	(12)	(9)	.
Project NPV										
Profitability Index By Year PI Project PI	0.91	0.92	0.94	0.95	0.96	0.97	0.98	0.98	0.99	1.00

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Saugeen First Nation (Project Specific DCF Analysis) Stage 1 DCF - Listing of Key Input Parameters, Values and Assumptions (\$000'S) **Discounting Assumptions Project Time Horizon** 40 years commencing at facilities in-service date of 01 Nov 20. **Discount Rate** Incremental after-tax weighted average After Tax Cost of Capital of 5.02%. **Key DCF Input Parameters,** Values and Assumptions Net Cash Inflow: Incremental Revenue: **Incremental Distribution Revenues** Approved per EB-2017-0087 Effective January 1, 2018. **Operating and Maintenance Expense** Estimated incremental cost. Incremental Tax Expenses: **Municipal Tax** Estimated incremental cost. 26.50% Income Tax Rate CCA Rates: CCA CCA CCA Classes: Rate Class Declining balance rates by CCA class: Distribution System 51 6% Accelerated CCA (Bill C-97) included. Dist'n Mains (Plastic) 51 6% Customer Services & MRI 51 6% Cash Outflow: Incremental Capital Costs Attributed Refer to Schedule 5b Change in Working Capital 5.051% applied to O&M

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DESIGN AND PIPE SPECIFICATIONS STEEL AND POLYETHYLENE PIPING

Steel Design Specifications

Design Factor	0.8
Design Class Location	N/A – Distribution
Design Location Factor	0.375
Joint Factor	1.00
Design Temperature	M5C (below grade)
	M30C (above grade)
Design Pressure	4960 kPa
Maximum Operating Pressure	4670 kPa
Test Medium	Air, Nitrogen, or Water
Minimum Test Pressure	6950 kPa
Minimum Depth of Cover (General)	0.6 m
Minimum Depth of Cover (Road Crossings)	0.6 m
Minimum Depth of Cover (Water Crossings	1.2 m
Steel Pipe Specifications	
Sizo	

Size	NPS 4
Outside Diameter	114.3 mm
Minimum Nominal Wall Thickness	4.8 mm
Minimum Grade	290 MPa
Туре	Electronic Resistance Weld
Description	C.S.A. Z245.1-14
Category	Cat 1
Coating	Yellow Jacket
% SMYS at Design Pressure	20.4%

Polyethylene Pipe Design Specifications

Design Factor	0.40
Design Pressure	550 kPa
Maximum Operating Pressure	550 KPa
Test Medium	Air or Nitrogen
Minimum Test Pressure	770
Minimum Depth of Cover (General)	0.6 m
Minimum Depth of Cover (Road Crossings)	0.6 m
Minimum Depth of Cover (Water Crossings)	1.2 m

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Polyethylene Pipe Specifications

Size	NPS 4
Outside Diameter	114.3 mm
SDR	11
Minimum Grade	PE2406
Description	C.S.A. B137.4-17
Size	NPS 2
Outside Diameter	60.3 mm
SDR	11
Minimum Grade	PE2406
Description	C.S.A. B137.4-17

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GENERAL TECHNIQUES AND METHODS OF CONSTRUCTION

- Enbridge Gas Inc. ("Enbridge Gas") will use the Design and Pipeline specifications found in Exhibit B-2-8, the below construction specifications, and Ontario Regulation 210/01 under the Technical Standards and Safety Act 2000, Oil and Gas Pipeline Systems.
- Pipeline construction is divided into several crews that create a mobile assembly line.
 Each crew performs a different function, with a finished product left behind when the last crew has completed its work.
- Enbridge Gas' contract specifications require the contractor to erect safety barricades, fences, signs or flashers, or to use flag persons as may be appropriate, around any excavation across or along a road. Ontario Traffic Manual – Book 7 – Temporary Conditions is followed as a minimum requirement for the purpose of traffic control.
- 4. It is Enbridge Gas' policy to restore the areas affected by the construction of the pipeline to "as close to original condition" as possible. When the clean-up is completed, the approval of the landowner or appropriate government authority is obtained.
- 5. Construction of the pipeline includes the following activities:

Locating Running Line

6. Enbridge Gas establishes the location where the pipeline is to be installed ("the running line"). For pipelines within road allowances, the adjacent property lines are identified, and the running line is set at a specified distance from the property line.

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Stringing

7. The pipe is strung adjacent to the running line. The sections of pipe are laid end-to-end on supports/skids that keep the pipe off the ground to prevent damage to the pipe or pipe coating.

Welding or Plastic Fusion

8. The pipe is welded/fused into manageable lengths. The welds in steel pipe are radiographically inspected, if required, and the welds are coated.

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Burying

- 9. Pipe may be buried using either the trench method or the trenchless method. All utilities that will be crossed or paralleled by the pipeline are located by the appropriate utility prior to installing the pipeline. Prior to trenching, all such utilities will be hand-located or hydro vacuumed.
 - Trench Method: Trenching is done by using a trenching machine or hoe excavator depending upon the ground conditions. Provisions are made to allow residents access to their property, as required. All drainage tiles that are cut during the trench excavation are flagged to signify that a repair is required. Next, the pipe is lowered into the trench. For steel pipe, the pipe coating is tested using a high voltage electrical tester as the pipe is lowered into the trench. All defects in the coating are repaired before the pipe is lowered in. Next, if the soil that was excavated from the trench is suitable for backfill, it is backfilled. If the soil is not suitable for backfill (such as rock), it is hauled away and the trench is backfilled with suitable material such as sand. After the trench is backfilled, drainage tile is repaired.
 - Trenchless Method: Trenchless methods are alternate methods used where fewer trenches or no continuous trenches are required to be dug. Some examples of where these methods would be used are installation of pipelines under railways, roads, sidewalks, trees and lawns. The type of trenchless method that could be used for the proposed pipeline depends on the soil conditions, the length, and the size of the installation. The most common methods are boring (auguring), directional drilling and ploughing.

<u>Tie-Ins</u>

10. The sections of pipelines that have been buried using either the trench or trenchless method are joined together (tied-in).

Cleaning and Testing

11. To complete the construction, the pipeline is cleaned and tested in accordance with Enbridge Gas's specifications.

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Restoration

12. The final activity is the restoration. The work area is leveled, the sod is replaced in lawn areas and other grassed areas are re-seeded. Where required, concrete, asphalt and gravel are replaced to return the areas to as close to the original conditions as possible.

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OEB Approval																						
Construction Survey																						
Construction and Testing																						
In-Service																						
Clean-Up																						

SAUGEEN FIRST NATION

Pipeline Construction Schedule

SAUGEEN FIRST NATION NATURAL GAS PIPELINE PROJECT

ENVIRONMENTAL PROTECTION PLAN

Prepared By: Union Gas Limited Environmental Planning March 2018

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1.0 INTRODUCTION

Union Gas Limited (Union) has been bringing clean, reliable, and affordable natural gas service for more than a century to over 400 communities across Ontario and as part of its Community Expansion Program, is proposing to bring natural gas service to the residents and businesses of Saugeen First Nation.

The project will consist of approximately 16.5 km of small diameter (i.e. 1 ¹/₄", 2", and 4") polyethylene distribution pipelines to service the community. The proposed pipeline will connect to Union's existing pipeline on Bruce Road 17 in the Municipality of Arran – Elderslie and will run north along B Line to Saugeen First Nation. Please see Appendix A for project mapping.

This Environmental Protection Plan (EPP) has been prepared to document a plan for the protection of the environment during construction of the natural gas pipeline system by Union to provide natural gas service to Saugeen First Nation.

Specifically this report will:

- Describe the proposed work necessary for the project;
- Describe the procedures that will be followed during construction of the facilities;
- Identify potential environmental impacts and recommend measures to minimize those impacts; and
- Describe public consultation opportunities.

This report will also be included with Union's evidence filed with the Ontario Energy Board.

2.0 PROJECT BACKGROUND

Saugeen First Nation is an Ojibway First Nation reserve located along Lake Huron and the Saugeen River immediately north of Southampton and approximately 24 km west of Owen Sound. Saugeen First Nation's registered population as of December 2017 was 1883, with 805 people living on reserve.

Union and Saugeen First Nation have been looking to bring natural gas to the community many years. Union and the First Nation are looking again to bring natural gas to the community and are committed to working together to protect the environment throughout all stages of the project. Union is committed to working with the First Nation, Municipality of Arran – Elderslie, Bruce County, Ministry of Natural Resources and Forestry (MNRF), Ministry of Tourism, Culture and Sport (MTCS), Saugeen Valley Conservation Authority (SVCA), Grey Sauble Conservation Authority (GSCA), and any other party that may have an interest in the project in order to ensure environmental protection and to secure all necessary permits and approvals.

3.0 PLANNING PROCESS

3.1 Key Activities

The following is a summary of the key activities for the development of the Saugeen First Nation Natural Gas Pipeline Project:

Project Initiation	Summer 2017
Finalize Environmental Protection Plan	March 2018
Construction	Spring 2019
Pipeline In Service	Fall 2019
Post Construction Monitoring	Spring 2020/Fall 2020

An Archaeological Assessment and a Heritage Assessment will be completed prior to construction in accordance with the MTCS guidelines and a review for environmental constraints (i.e. sensitive features and species at risk) will also be completed prior to construction.

4.0 <u>CONSULTATION</u>

Union has been in discussions with Saugeen First Nation and the Municipality of Arran – Elderslie about the project and will continue to work with them and any other interested party in order to ensure all issues or concerns are addressed.

Union's construction group has discussed the proposal with the local road authorities to ensure that any issues or concerns are addressed. To date, no concerns have been raised.

Union completed a project summary for the Ministry of Energy (MOE) and received a list of Indigenous communities to consult with for the project. Union has begun discussing the project with the Indigenous communities identified by the MOE and will invite them to participate in the process where there are opportunities (i.e. archaeological assessments).

Union submitted an application for the natural gas grant program ("NGGP") funding to the Government of Ontario in July 2017. In December 2017, Union received notification from the government that the project had been selected for funding from the program conditional on receiving OEB approval. Once OEB approval has been received, Union or its Agent will contact all groups who will be directly affected by pipeline construction. If landowners have site specific concerns, Union or its Agent will meet with them to discuss details relating to construction. A Union representative or its Agent will be on site at all times during construction to deal with any questions that may arise.

5.0 ROUTE SELECTION

In determining the route for the pipeline in Saugeen First Nation, Union's District Office looked at the most direct and cost-effective route that offered the most natural gas connections while connecting to Union's existing pipeline at a location that could provide enough gas pressure to adequately supply the community. Union's existing pipeline on Bruce Road 17 can provide an adequate gas supply for the community, and a route running along B Line provides the most direct route to the First Nation and is close to the administrative section of the community. The route is also proposed to be located within the road/utility right-of-way which greatly minimizes potential environmental impacts.

Please see Appendix A for the preferred running line and Appendix D identifying a number of photos along the proposed running line.

6.0 CONSTRUCTION, OPERATION AND MAINTENANCE

6.1 General Construction Practices

Clearing and Grading

This prepares the right-of-way to allow the construction of the pipeline. If required, brush, trees and grass are cut or removed and the ground levelled.

Stringing

The pipe is strung next to the proposed pipeline location. Pipe sections are laid end to end and set on supports to keep the pipe off the ground and prevent damage. Where pipeline stringing is not required, the pipeline will be installed off spools.

Trenching

To install the pipeline a trench will be dug. Trenching is done by using a trenching machine or hoe excavator depending upon the ground conditions. The width of the trench is approximately 0.5 m and the depth will be a minimum of 0.6 m.

The excavator or trenching machine will dig the trench and place the spoil in a pile beside the trench. Once the trench is excavated, the pipeline will be installed and if the spoil is suitable, it will be placed back in the trench. Any unsuitable spoil will be removed from the site and disposed of in an appropriate manner. Suitable material, such as sand, will be used to backfill the trench in locations with unsuitable spoil.

Trenchless Installations

Trenchless installation of the pipeline may be used to install sections of the line in environmentally or culturally sensitive areas (watercourses, woodlots or cultural heritage sites), road crossings, rail crossings and for portions of the distribution network within Saugeen First Nation.

The trenchless installations will be completed using horizontal directional drilling (HDD), boring, or ploughing.

Road Crossings

It is proposed that all paved road crossings will be drilled. Road crossings will also be completed using HDD or boring. In the event that it is not possible to drill the crossings, they will be open cut after discussions with the local roads authority. The public will be notified of any road closures. Union or its Agent will attempt to maintain one lane of traffic at all times.

Cleaning and Testing

To complete construction, the pipeline is cleaned and pressure tested in accordance with CSA Z662-15.

Restoration

It is Union's policy to restore the affected areas to "as close to original" condition as practicable. To ensure the quality of the restoration, pictures of the construction area will be taken before the work commences.

6.2 Operation and Maintenance Practices

Like any system, once the pipeline system is installed it has to be maintained and serviced on a regular basis. The following paragraphs will describe the most common work to be performed by Union personnel after the gas main has been installed.

Locates

Union provides a free locate service to any person or business who may be working near a pipeline. The pipeline locator is comprised of two parts: a transmitter and a receiver. To perform a locate, the transmitter is connected to the gas facility. The transmitter sends a small current through the facility, which is picked up by the receiver. The location of the pipeline is then marked using stakes or yellow paint. No excavation is required.

Leak Surveys

To ensure that there are no leaks in the system, a company representative or Agent will "leak survey" the pipeline. The leak surveyor will walk along the gas main and carry a small machine that can detect natural gas. No excavation is required to complete the leak survey. However, if leaks are detected, excavations will be required to repair the pipeline.

7.0 POTENTIAL IMPACTS AND MITIGATION

7.1 General Environmental Features

Union has retained Stantec Consulting Ltd. (Stantec) to review the proposed running line for environmental constraints and sensitive features. Please see the Natural Heritage Study in Appendix E completed by Stantec which identifies environmental constraints and sensitive features and recommends mitigation measures to minimize negative impacts to the features identified. Union will implement the mitigation measures recommended in the Natural Heritage Study.

Watercourse Crossings

It will be necessary to cross a number of watercourses as part of the project.

Watercourses will be crossed using the HDD drilling method and will be completed as per the Union Gas Limited and Fisheries and Oceans Canada – Ontario Great Lakes Area Agreement (DFO-OGLA/UGL AGREEMENT 2008). The crossings plans for HDD can be found in Appendix C.

Watercourses may be crossed above existing culverts where depth of cover is adequate and it is more practical than crossing via HDD. Silt fence will be installed along the work area limits at such crossing locations to prevent sediment from entering the watercourse. The silt fence will remain installed until the area has been completely re-vegetated.

There are no in-stream timing windows associated with HDD crossings and as according to the Agreement, there are no concerns with species at risk when watercourses are installed using the HDD method. There are also no in-stream timing windows and species at risk concerns when crossing above existing culverts as there will be no in-stream activity.

Union will adhere to the DFO-OGLA/UGL AGREEMENT 2008 and will acquire any necessary watercourse crossing permits and approvals from Saugeen First Nation, SVCA, GSCA, and MNRF. Through adherence to the Agreement, permit conditions, and Union's standard mitigation measures for watercourse crossings, Union does not anticipate any impacts to watercourses.

Tree Clearing

Tree clearing for this project is expected to be minimal.

Union will obtain all necessary approvals for tree clearing prior to construction. Tree clearing will be restricted from occurring between April 10th to August 9th in accordance with the general nesting periods of migratory birds provided by Environment and Climate Change Canada, and will adhere to the Migratory Bird Convention Act and Migratory Bird Regulations to avoid bird nests and eggs. If project scheduling requires the removal of trees or shrubs during the nesting

period, a qualified ornithologist will be required to assess the area of removal for evidence of nesting activity prior to removal to avoid any potential loss of active nests.

Cultural Heritage Resources

Union has retained a licenced archaeological consultant (Timmins Martelle Heritage Consultants Inc.) to complete an archaeological assessment in accordance with MTCS guidelines to identify known and/or potential archaeological planning constraints within the project area. Timmins Martelle Heritage Consultants Inc. has completed a Stage I Archaeological Assessment and identified areas along the proposed pipeline route that have archaeological potential. A Stage II survey will be completed at such areas prior to construction in accordance with MTCS guidelines. The survey will serve to confirm the presence of significant archaeological resources subject to potential impacts from the proposed project activities.

If deeply buried cultural remains are encountered during construction, all activities will be suspended and the archaeological consultant as well as the MTCS will be contacted to determine the appropriated course of action.

Union has retained a Cultural Heritage Specialist from Aecom to review the running line for potential cultural heritage landscapes and built heritage resources. Union will follow the recommendations of the Specialist.

As construction is proposed to remain entirely within the disturbed portion of the road allowance, it is anticipated there will be no impacts to archaeological resources, built heritage resources or cultural heritage landscapes.

Water Wells

A hydrogeologist will review the area before construction. Based on this pre-construction assessment, a water well monitoring program will be implemented in areas where the hydrogeologist believes that pipeline construction may affect water wells. The hydrogeologist will also be available during construction in the event that there are complaints regarding water wells.

Species at Risk

Union has retained Stantec to review the running line for potential species at risk and determine if any species will be impacted by construction activities. Please see the Natural Heritage Study in Appendix E which recommends mitigation measures to avoid impacts to species at risk.

Mitigation measures could include avoiding certain areas at sensitive times, directional drilling sensitive areas, or any measure that helps reduce potential impacts. Impacts to sensitive species are anticipated to be minor in nature as the pipeline will be located within the disturbed portion of the road allowance and many features will be directionally drilled.

7.2 Mitigation Summary

Table 1 located in Appendix B provides a general summary of the potential impacts, as well as the proposed mitigation measures that will be implemented during construction to minimize impacts on the environment. These measures will be implemented as well as the specific measures identified in section 7.1.

8.0 <u>CUMULATIVE IMPACTS</u>

The following section considers the cumulative effects of construction on the lands due to the project. The definition of cumulative effects used in this report is: "changes to the environment that are likely to result from a particular project in combination with other projects or activities that have been or will be carried out".

There may be cumulative impacts between this pipeline and other projects in the area, although at this time Union is unaware of any projects that would interact with this proposal. Additional noise, dust and traffic could be an issue should construction occur concurrently however, the benefits of having these facilities will, in the long term, be a positive impact. It is not expected that any threshold or triggers will be exceeded since the construction of this pipeline is generally minor in nature and takes place in a previously disturbed area. Indirect benefits could include increased development in the area with the availability of natural gas.

Constructing natural gas pipelines within road allowances that have been previously disturbed

will focus, if not entirely limit, cumulative effects to a corridor planned and designated for infrastructure projects.

9.0 SUMMARY AND RECOMMENDATIONS

This Environmental Protection Plan describes a strategy for the protection of the environment during the construction of a natural gas pipeline system in Saugeen First Nation. The plan has been developed by noting the environmental features in the area and the potential impacts of construction. The plan recommends a number of measures to reduce the impacts of the development.

It is recommended that the pipeline be monitored the year after construction to ensure that restoration measures were effective. If additional restoration measures are required, they should be completed as soon as possible. It is also recommended that local residents have access to Union Gas or its Agent in order to address any concerns that may arise during construction.

With the implementation of the recommended mitigation measures, and ongoing landowner and agency communication, the Saugeen First Nation Natural Gas Pipeline Project is not anticipated to have any significant adverse environmental or socio-economic effects.

APPENDIX A PROJECT LOCATION MAP



APPENDIX B TABLE 1: PIPELINE CONSTRUCTION MITIGATION SUMMARY

TABLE 1: PIPELINE CONSTRUCTION MITIGATION SUMMARY				
Issue	Potential Impact	Proposed Mitigation		
Paved Driveways and Roadways	Disruption to local traffic, landowners and tenants	 All paved roadways and driveways to be bored if practical. If boring is not possible, steel plates will be on site to provide access to landowners and tenants. Driveways will be repaired as soon as possible. For driveways that require cutting, the excavation is to be filled with sand and granular material and compacted. 		
Gravel Driveways and Roadways	Disruption to landowners and tenants	 Roadways and driveways will be open cut. Steel plates will be kept on site to provide access to landowners and tenants. Driveways will be repaired as soon as possible 		
Traffic	Disruption to local citizens	 The Company will keep one lane of traffic open and will implement traffic controls as required. Flag persons and warning devices will be used to notify traffic of the construction zone in accordance with Ministry of Transportation standards. 		
Public Safety	Public safety concerns	 Company inspectors will ensure public safety on construction site. Ensure proper signage and flag persons if required. 		
Commercial/Retail Businesses and Recreational Areas	Disruption to businesses	 Ensure access at all times. Restore area as soon as possible after construction. Schedule construction with owners or managers, where necessary. 		
Construction Noise	Disturbance to landowners and tenants	 Construction to be carried out during daylight hours whenever possible. Ensure equipment is properly muffled. 		
Nuisance Dust	Disruption to landowners and tenants.	Control dust as required.		
Construction Equipment	Disruption to landowners and tenants	Equipment will be stored off road shoulders when not in use.		
Landowner Concerns	Disruption to landowners and tenants	The Company to provide landowners and tenants with the		

TABLE 1: PIPELINE CONSTRUCTION MITIGATION SUMMARY				
Issue	Potential Impact	Proposed Mitigation		
		telephone numbers of supervisory personnel.		
Fences	Disruption to landowners and tenants. Loss of control of animals inside fenced areas.	 Landowners and tenants will be contacted before any fences are disturbed. Temporary fencing will be erected if requested by landowner or tenant. Fences will be replaced as soon as possible. 		
Front Yards	Disruption to landowners and tenants.	 Landowners and tenants will be notified prior to construction. Restore lawns and yards to original condition 		
Mailboxes	Disruption to landowners	 Notify landowners prior to construction. Restore as soon as possible. Provide temporary alternative if necessary. 		
Underground Utilities	Disruption of services	 Obtain "locates" from all utilities. If utilities are damaged, repair as soon as possible. 		
Archaeology	Disturbance of heritage resources	 An archaeological assessment will be completed prior to construction Stop construction if artifacts are encountered. Notify Ontario Ministry of Tourism, Culture and Sport. 		
Water Wells	Disruption to water supply	 If water quality/quantity problems occur as a result of construction activities, the Company will supply potable water until the situation has been corrected. Conduct hydrogeology investigation and monitor wells as required. 		
Trees	Damage to Trees Disturbance to wildlife	 No tree removal is anticipated. If tree removal is necessary, alter alignment to avoid trees if possible. Pipeline to be located one metre from base of tree if possible. Trees to be removed outside of avian nesting window if required. Discuss restoration plans with landowner. 		
Watercourse Crossings	Water quality concerns	Union will comply with all permit conditions		

TABLE 1: PIPELINE CONSTRUCTION MITIGATION SUMMARY				
Issue	Potential Impact	Proposed Mitigation		
		 Union will adhere to all Company specifications and Department of Fisheries and Oceans-endorsed Generic Sediment Control plans for watercourse crossings. 		
Natural Areas	Sedimentation run-off	 Ensure sediment barriers such as straw bales/sediment fencing are used where there is a potential for run-off. 		
Vegetative Cover	Loss of vegetative cover leading to soil erosion	 Restore cover by means of seeding or hydro-seeding as soon as possible. 		
Soils: Erosion	Introduction of sediment/ silt to adjacent lands	 Restore disturbed soils as soon as possible after construction. 		
Road Side Ditches	Water quality concerns	 Ensure ditches are returned to pre-construction condition as quickly as possible. Install rock rip rap/straw bale check dams as required. 		
Spills	Public safety issue	 Ensure the Ministry of Environment and Climate Change is notified, as per spill procedure. Clean up spilled material. 		
Contaminated Soils	Dealing with contaminated materials Public safety issue	 No sites are anticipated as a result of this proposal however should suspect soils be uncovered, work should stop immediately and the Union Gas Environmental Department contacted. Clean up contaminated material following Company and MOECC procedures. 		
Cemeteries	Disturbance to unmarked grave sites and disruptive to services.	 Confirm location of all cemeteries with Saugeen First Nation and the Municipality of Arran-Elderslie. Stop construction if suspect material encountered and immediately notify the Environmental Planner. Suspend construction near cemeteries during services. 		
Site Restoration	Disturbance to public and private properties	Construction area to be restored as soon as possible upon completion of pipe installation.		

APPENDIX C GENERIC SEDIMENT CONTROL PLAN – HORIZONTAL DIRECTION DRILL



Generic Sediment Control Plan - Horizontal Directional

Faitetes and Guerou Canado (DFD) a responsible for projecting flat and flat holitet across Conduc Under the Faiteties Act no one may carry suit a work or undertaking the value the harmful eleantion, discuption or destruction (HADD) of flat holitet unless it has been authentical by the DFD, Dy following the conditions and measures set out in the Stream Crossing Review and this Drussing you will be in rampliance with authention 35(1) of the Fisheries Act. This provi sets and the measures that will be averation 35(1) of the Fisheries Act. This provi sets and the measures that will be averation 56(1) of the Fisheries Act. This provi sets and the measures that will be averation 56(1) of the Fisheries Act.

Measures to Protect Fish and Fish Habitat when Horizontal Directional Drilling

The company must use inderiate construction practices, milipation technique, crossing in order to prevent on unauthorized (ADD or the impairment of with international an intermittant vaterbady (Atream, river, pand) and avera adjacent

- The compary will adhere to all pertricts and upprovals of federal and provincial agences related to work
 The compary will notify the appropriate federal or provincial agencies related to workerowite crossings.
- * Prior to removal of the low vegetative cover, effective mitigation techniques for evasion and sediment control must be in sluge to protect water quality. Unit the oneal whent of disturbance to the minimum and within the racia or utility right-of-way. Decy grabiting to immediately prior to the creating operation.
 - Materials removed or stockpiled during construction must be depended in a waterbody. The maleric must be protected with appropriate erosion and as
- Retueling and lubrication of equipment will be conducted in areas that will be disposed of in an approved location before X reaches any extertacy, Approximations on alle.
- Monitor the watercourse to blearva signs of burface migration (inco-out) of
 There are no in-stream limiting restrictions on this work.
 The compary will be held responsible for implementation of this plan.

Crossing Procedures

- " Secriment fences are to be esticulation between the entry and exit points and the waterburner (potential for sediment to prior watercourse)
- Must sump oits are to be excoupted at the entry and exit points of the drill to contain drilling fulde to prevent sectment and other descriptions substances from entering the wole-course if this sound be ocheved, use still fences or other effective sectioned and ercein contain measures to prevent drilling mud from entering the wole-course. These pits must be excercible prior to those ond erceine contain measures to prevent drilling mud from entering the wole-course. These pits must be excercible prior to those one encourse. These prior is a sound of the source of the source of the source of the pits must be excercible prior to those one encourse. These prior is a source of the source of t . At a minimum the entry and exit points must be located as identified on this plan
 - ł
- U prilling fuids are to be contained during the editive chilling process and even the drill is completed
- All second material in to be removed from the construction sits to an approved location * Maniformy of the wolfercourse must be compared during all phases of the providing other
- Emergency Frac-out Response and Contingency Planning
- The shift precedure will be closely mentioned throughout the consists attempt to limit the activity of the "Inseling about the transfer external to the the stream back of the procedure" (from out).
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 - Measures must be lower to control the celling mud and prevent its further migration into the extensione. Measures to control fractioning will recipie the celling the use of vacuum trucks, excendion of refet this (dry lond) and any other measure deemed appropriate by the company.
- " Ensure clear up menanes do not result in greater duringle to the samla and editoronie than frem working the ditting must m
 - No.

- In the event that the hardwrite directional utilities of dumpleted a dum and purpole flamed creating technique will be implemented following the specific Generic Sedment Control Pice andomae by DFO under the DFD-DGA ADSCINEN 2009.

Environmental Compliance

Contractor

- In the event that drilling fluids anter the watercourse or turblidly is generated by our migration, the Winishy of the Environment (WOL) shall be contracted by the contraction in compliance with their wills have an incident is to be phomen into the WOE Splits Action Centre at 1-800-266-6060 by the contraction. The Splits Action Centre will restrict the following information.
 - . The nature of the incident (what happened and what materials were involved). " Approximpte volume of material involved.
 - The includent location (led, conceasion, township, county and/or city).
 Actions that have or will be taken.

 - * The name and telephone number of the person colling. . The maident should be manitared.
- * The date, time and durition of the event should be recorded, as well as

Company

- * when this has been competers. Unart's Emissionents Planning Department.

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APPENDIX D PHOTOGRAPHS


1. Proposed connection location to Union's existing pipeline at Bruce Road 17 and B Line (looking north at B Line)



2. B Line at Highway 21 (looking south at B Line)



3. View of Highway 21 (looking west near Scotch Settlement Road)



4. View of Highway 21 (looking west from Joshua Crescent)



5. View in front of the Saugeen Band Office (looking west on Highway 21)



6. View of a typical residential street in Saugeen First Nation (looking east on Cameron Drive from Kewageshig Street)

APPENDIX E NATURAL HERITAGE STUDY

Natural Gas Pipeline Community Expansion Project Natural Heritage Study: Saugeen First Nation

FINAL REPORT



Prepared for: Union Gas Ltd. 745 Richmond Street Chatham, Ontario N7M 5J5

Prepared by: Stantec Consulting Ltd. 1 – 71 Southgate Drive Guelph, Ontario N1G 4P5

File 160961225.203 March 12, 2018 This document entitled Natural Gas Pipeline Community Expansion Project Natural Heritage Study: Saugeen First Nation was prepared by Stantec Consulting Ltd. ("Stantec") for the account of Union Gas Ltd. (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

(signature)

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Abbreviations

AMO	Atlas of the Mammals of Ontario
COSEWIC	Committee on the Status of Endangered Wildlife in Canada
COSSARO	Committee on the Status of Species at Risk in Ontario
CPS	Corrugated Steel Pipe
CRA	Commercial, Recreational, or Aboriginal fishery
DFO	Fisheries and Oceans Canada
ELC	Ecological Land Classification
END	Endangered - a species facing imminent extinction or extirpation
HDD	Horizontal Directional Drill
km	Kilometre
LIO	Land Information Ontario
m	Metre
MNRF	Ministry of Natural Resources and Forestry
MOECC	Ministry of Environment and Climate Change
NHIC	Natural Heritage Information Centre
NS	No Schedule

OBBA	Breeding Bird Atlas of Ontario
ORAA	Ontario Reptile and Amphibian Atlas
OWES	Ontario Wetland Evaluation System
PSW	Provincially Significant Wetland
SAR	Species at Risk
SC	Special Concern
SOCC	Species of Conservation Concern
Stantec	Stantec Consulting Ltd.
THR	Threatened
Union Gas	Union Gas Ltd.

1.0 INTRODUCTION

1.1 PROJECT AND REPORT OVERVIEW

Union Gas Ltd. (Union Gas) has retained Stantec Consulting Ltd. (Stantec) to conduct natural heritage reviews along the routes for their community expansion projects across Ontario. This report discusses the construction of an approximately 16.54 km natural gas distribution pipeline to bring natural gas to the Saugeen First Nation's Saugeen 29 Reserve, Ontario. The route commences at Bruce Road 17 and travels northward along B Line in the Municipality of Arran Elderslie to the Saugeen 29 Reserve.

The purpose of this report is to identify natural features along the pipeline route, any potential impacts to those features and to recommend mitigation measures to reduce impacts to those features. This report included a combination of desktop screening and field visits consisting of the following:

- Ministry of Natural Resources and Forestry (MNRF) Natural Heritage Information Centre (NHIC) Database
- Email response received from the MNRF
- LIO mapping database
- Fisheries and Oceans Canada (DFO) Species at Risk Mapping
- Breeding Bird Atlas of Ontario (OBBA)
- Ontario Reptile and Amphibian Atlas (ORAA)
- A site visit to confirm existing conditions conducted on September 25, 2017

1.2 PROJECT LOCATION

The pipeline is in the western portion Municipality of Arran - Elderslie along B Line and Highway 21, with short spurs entering the Saugeen reserve (see Figure 1, Appendix A). Outside the reserve the area is dominated by agricultural land. Lands on the reserve have been left natural and not used for agricultural crop production.

2.0 EXISTING CONDITIONS

2.1 TERRESTRIAL SPECIES AND HABITAT

2.1.1 Forest and Vegetation Cover

Background

The project falls within Rowe's (1972) Great Lakes-St. Lawrence Forest Region where the vegetation is known to be relatively diverse. Hardwood forests may be dominated by sugar maple (*Acer saccharum*), American beech (*Fagus grandifolia*), white ash (*Fraxinus americana*), eastern hemlock (*Tsuga Canadensis*), with numerous other species found where substrates are well developed on upland sites. Lowlands, including rich floodplain forests, contain green ash (*Fraxinus pennsylvanica*), silver maple (*Acer saccharinum*), red maple (*Acer rubrum*), eastern white cedar (*Thuja occidentalis*), yellow birch (*Betula alleghaniensis*), balsam fir (*Abies balsamea*), and black ash (*Fraxinus nigra*) (Crins, 2009).

A roadside Ecological Land Classification (ELC) assessment was conducted on September 25, 2017 using the ELC for Southern Ontario (Lee et al, 1998; updated 2008). The assessment documented land cover types and vegetation communities that were visible from the roadside. Parts of the Study Area that were not visible from the roadside were classified using air photo interpretation.

Forty-nine (49) distinct land cover and vegetation community types were delineated along the pipeline route. Land cover and vegetation community types have been organized into the broad categories including Agriculture, Constructed, Cultural, Forest, and Wetland (Table 2-1). The ELC communities are shown on Figures 2.1 to 2.5, Appendix A.

All vegetation communities documented are typical of either the Deciduous Forest and/or the Great Lakes-St. Lawrence Forest Region.

Category	ELC Code	Description		
Constructed	CGL	Constructed Green Lands		
Constructed	CGL_1	Constructed Green Lands - Golf Course		
Constructed	CGL_4	Constructed Green Lands - Recreational		
Constructed	CVC	Commercial and Institutional		
Constructed CVC_1 Commercial and Institu		Commercial and Institutional - Business		
Constructed CVI_3		Sewage and Waste Treatment		
Constructed CVR_2 High Density Residential		High Density Residential		
Constructed CVR_3 Single Family Residential				

Table 2-1: Land Cover and Vegetation Community Types

Category	ELC Code	Description
Constructed	CVR_4	Rural Property
Constructed	CVS_2	Commercial and Institutional - Health
Constructed	DIST	Disturbed
Forest	FOC	Deciduous Forest
Forest	FOCM4	Dry – Fresh Upland Deciduous Forest Ecosite
Forest	FOCM6	Fresh – Moist Sugar Maple Deciduous Forest Ecosite
Forest	FOCM6-1	Fresh – Moist Sugar Maple – Lowland Ash Deciduous Forest Type
Forest	FOCM8-1	Fresh – Moist Poplar Deciduous Forest Type
Forest	FOD	Deciduous Forest
Forest	FOD (Aspen)	Deciduous Forest
Forest	FODM5	Dry – Fresh Sugar Maple Deciduous Forest Ecosite
Forest	FODM5-2	Dry – Fresh Sugar Maple – Beech Deciduous Forest Type
Forest	FODM7	Fresh – Moist Lowland Deciduous Forest Ecosite
Forest	FODM8-1	Fresh – Moist Poplar Deciduous Forest Type
Forest	FOM	Mixed Forest
Forest	FOMM5	Dry – Fresh White Birch – Poplar – Conifer Mixed Forest Ecosite
Forest	FOMM6	Fresh – Moist Hemlock - Hardwood Mixed Forest Ecosite
Forest	HR	Hedgerow
Constructed	IAGM1	Agricultural Buildings
Wetland	MASM1-1	Cattail Mineral Shallow Marsh
Wetland	MASM1-12	Common Reed Mineral Shallow Marsh
Wetland	МЕММЗ	Dry - Fresh Mixed Meadow Ecosite
Wetland	MEMM4	Fresh - Moist Mixed Meadow Ecosite
Agriculture	OAG	Open Agriculture
Agriculture	OAGM1	Annual Row Crop
Agriculture	OAGM2	Perennial Cover Crop
Agriculture	OAGM4	Open Pasture
Wetland	SA	Shallow Aquatic
Wetland	SWD	Deciduous Swamp
Wetland	SWDM2	Ash Mineral Deciduous Swamp Ecosite

 Table 2-1:
 Land Cover and Vegetation Community Types

Category	ELC Code	Description			
Wetland	SWDM3-3	Swamp Maple Mineral Deciduous Swamp Type			
Wetland	SWDO3-3	Trembling Aspen Organic Deciduous Swamp Type			
Wetland	SWM	Mixed Swamp			
Wetland	SWT	Swamp Thicket			
Wetland	SWTM3	Willow Mineral Deciduous Thicket Swamp Ecosite			
Forest	TAGM1	Coniferous Plantation			
Forest	THCM1	Dry - Fresh Coniferous Regeneration Thicket			
Forest	THCM2	Fresh - Moist Coniferous Regeneration Thicket			
Forest	THDM3	Dry - Fresh Deciduous Hedgerow Thicket Ecosite			
Forest	THDM4	Dry - Fresh Deciduous Regeneration Thicket Ecosite			
Forest	WOMM4	Fresh - Moist Mixed Woodland Ecosite			

 Table 2-1:
 Land Cover and Vegetation Community Types

A review of the South Bruce Official Plan and associated Schedules indicate that there are no significant woodlands or other natural or designated features in the immediate vicinity of the route. Natural heritage corridors where wildlife is most likely be encountered include the unnamed tributaries of the Saugeen river at crossing 8 and 10 and the Sang Creek crossing 11 (watercourse crossings are further discussed in Section 2.2).

2.1.2 Wetlands

Background

The Ontario Wetland Evaluation System (OWES) is used to identify Provincially Significant Wetlands (PSWs). An evaluated wetland may be one contiguous unit or may be a series of smaller wetlands functioning as a whole. Evaluated wetlands that do not qualify as provincially significant may be designated locally significant and may be protected through local planning and policy measures. There may also be unevaluated wetlands in an area.

A review of LIO natural heritage mapping indicated that five other/locally significant wetland occurs within 120 m of the pipeline route as illustrated on features figures (Appendix A, Figures 3.1 to 3.5). These wetlands cover a relatively small area where they intersect with the road route; four on B Line and one on Highway 21.

Potential impacts to wetland communities can be avoided using horizontal directional drill (HDD), as discussed further in Section 3.2.

2.1.3 Wildlife Habitat and Species at Risk

Background

Records of wildlife within the vicinity of the pipeline were compiled from available literature and resources including the Atlas of the Mammals of Ontario (Dobbyn, 1994), Reptiles and Amphibians of Ontario (Ontario Nature, 2014) and the Ontario Breeding Bird Atlas (Cadman et al., 2007). Based on a review of background information, eight species of amphibians, nine species of reptiles, 108 species of birds and 42 species of mammals are known to potentially occur within the vicinity of the pipeline.

The potential for species to be present along the preferred route are limited by the habitat suitability and availability. Therefore, the identified species recorded from these databases may not occur along the preferred pipeline route. It is not anticipated that the preferred route alignment traverses through protected habitat as it is located within an existing road allowance that is periodically disturbed for maintenance work.

Significant Wildlife Habitat

Wildlife habitat is defined as an area where plants, animals and other organisms live, including areas where species concentrate at a vulnerable point in their life cycle and that are important to migratory and non-migratory species (MNRF, 2010). Wildlife habitat is considered significant if it is ecologically important in terms of features, functions, representation or amount, and contributing to the quality and diversity of an identifiable geographic area or Natural Heritage System (MNRF, 2010). Based on the County of Huron Official Plan (2015) mapping, no significant wildlife habitat features are located along the pipeline route. Natural heritage features including PSWs, unevaluated wetlands and wooded areas provide the highest quality habitat along the pipeline route and are the most likely areas to provide significant wildlife habitat. Protection for these features is discussed in Sections 3.2 and 3.3.

There is limited potential for project interaction with potential significant wildlife habitat features because the project location is within an existing road allowance which is regularly maintained for road operations. Wildlife most likely to be impacted by construction activity will be edge species that are relatively tolerant of human interaction and vehicle traffic. Species requiring larger forest tracts (e.g., forest interior and area sensitive species) will tend to concentrate in the interior areas of their preferred habitat types (e.g., extensive forests, natural areas, river valleys) and therefore away from project activities.

Species of Conservation Concern

There are four types of species of conservation concern (SOCC): those which are rare, those whose populations are significantly declining, those which have been identified as being at risk from certain common activities and those with relatively large populations in Ontario compared to the remainder of the globe. The Significant Wildlife Habitat Criteria Schedule for Ecoregion 6E (MNRF, 2015) identifies marsh, open country and shrub/early successional bird breeding habitat and special concern and rare wildlife species in this category.

Rare species are considered at five levels: globally rare, federally rare with designations by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC), provincially rare with designations by the Committee on the Status of Species at Risk in Ontario (COSSARO), regionally rare (at the Site Region level), and locally rare (in the municipality or Site District). This is also the order of priority that should be assigned to the importance of maintaining species.

Some species have been identified as being susceptible to certain practices, and their presence may result in an area being designated significant wildlife habitat. Examples include species vulnerable to habitat loss such as marsh, open country and shrub/early successional breeding birds. The final group of species of conservation concern includes species that have a high proportion of their global population in Ontario. Although they may be common in Ontario, they are found in low numbers in other jurisdictions. Species designated as Special Concern provincially or federally are included as species of conservation concern.

S-Ranks are status rankings (see list below) assigned for the province by the MNRF and available in the NHIC database. Provincially rare species are those with S-Ranks of S1, S2 or S3.

- S1 Critically Imperiled
- S2 Imperiled
- S3 Vulnerable
- S4 Apparently Secure
- S5 Secure

The NHIC database was accessed on January 2018 to obtain recent records of species of conservation concern (less than 30 years old) near the pipeline route. A review of the NHIC database has indicated that three species of conservation concern have been historically documented in the vicinity. This list includes those species with a provincial ranking of S1 through S3, as well as species considered special concern federally or provincially.

The Ontario Breeding Bird Atlas (Region 8) (Cadman et al., 2007), Ontario Reptile and Amphibian Atlas (Ontario Nature, 2013) and the Ontario Mammal Atlas (Dobbyn, 1994) were also accessed to determine whether there is a potential for species of conservation concern along the pipeline route. Based on this review, five wildlife species of conservation concern have ranges that overlap pipeline route, including two species of reptile and three species of breeding birds.

Exact locations of species occurrences are not available from these databases or atlases, and the potential for species to be present is limited by habitat suitability and availability. Therefore, the identified species recorded from these databases may not occur along the pipeline route.

Table 2-2 provides a summary of the species of conservation concern that have been identified during the NHIC and Wildlife Atlas background review, and whether potential habitat for these species is present.

Common Name	Scientific Name	SRANK	Provincial Status (COSSARO)	National Status (COSEWIC)	Source	Potential Habitat? (Y/N)
REPTILES						
Snapping Turtle	Chelydra serpentina	S3	SC	SC	NHIC, ORAA	Y
Eastern Milksnake	Lampropeltis triangulum	S3	-	SC	ORAA	Y
BIRDS						
Eastern Wood- Pewee	Contopus virens	S4B	SC	SC	OBBA	Y
Wood Thrush	Hylocichla mustelina	S4B	SC	THR-NS	OBBA	Y
Grasshopper Sparrow	Ammodramus savannarum	S4B	SC	SC-NS	OBBA	Y
VASCULAR PLANTS						
Tuberous Indian-plantain	Arnoglossum plantagineum	S2	SC	SC	NHIC	Y
Rigid Sedge	Carex tetanica	S3?	-	-	NHIC	Y

 Table 2-2:
 Terrestrial Species of Conservation Concern

NOTES:

THR: Threatened - a species that is at risk of becoming endangered

SC: Special Concern - a species with characteristics that make it sensitive to human activities or natural events

S?: Rank Uncertain

NS: No schedule - not yet on a Species at Risk Act schedule

Species at Risk

Species at risk are those species given status rankings by COSEWIC and/or COSSARO as threatened or endangered according to federal or provincial legislation. Endangered and threatened species receive general habitat protection under the ESA 2007. Special concern species are not afforded habitat protection and have been summarized as species of conservation concern above.

Recent records (less than 30 years old) of endangered and threatened species were obtained through the NHIC database on the LIO Natural Heritage Mapping website, accessed January 2018.

A review of the NHIC database has indicated that 3 endangered or threatened species have been documented in the vicinity of the pipeline route, including historic records. The species and their preferred habitat are described below.

Bobolink (*Dolichonyx oryzivorus*) is ranked as S4B provincially (apparently secure and breeding) and is designated as threatened both provincially and federally. The species is afforded general habitat protection under the ESA 2007. The Bobolink is generally referred to as a "grassland species". It nests primarily in forage crops with a mixture of grasses and broad-leaved forbs, predominantly hayfields and pastures. Preferred ground cover species include grasses such as Timothy and Kentucky bluegrass and

forbs such as clover and dandelion (COSEWIC 2010). Bobolink is an area-sensitive species, with reported lower reproductive success in small habitat fragments (Kuehl and Clark 2002; Winter et al. 2004). Based on the roadside ELC survey, potentially suitable Bobolink habitat occurs in cultural meadow, hayfield, and pasture communities.

Eastern Meadowlark (*Sturnella magna*) is ranked as S4B provincially (apparently secure and breeding) and is designated as threatened both provincially and federally. It is afforded general habitat protection under the ESA 2007. Meadowlarks are ground nesting birds (Harrison, 1975), which are often associated with human-modified habitats where they sing from prominent perches such as roadside wires, trees, and fenceposts. As a grassland species the Eastern Meadowlark typically occurs in meadows, hayfields and pastures. The Eastern Meadowlark is generally tolerant of habitat with early succession of trees or shrubs. As with other grassland species, current threats are primarily the result of expanding urbanization and intensive farming practices (Cadman et al., 2007). Based on the roadside ELC survey, potentially suitable Eastern Meadowlark habitat occurs in cultural meadow, thicket, woodland, hayfield, and pasture communities.

Lake Sturgeon (Great Lakes – Upper St. Lawrence River population) (*Acipenser fulvescens*) is ranked as S2 provincially (Imperiled) and is designated as threatened both provincially and federally. It is afforded general habitat protection under the ESA 2007. Lake Sturgeon can be found at depths of 5-20 m in fresh water lakes, typically with soft bottoms of mud, sand or gravel (Golder 2011). Lake Sturgeon spawn in shallow, fast-flowing water, typically with gravel or boulders at the bottom. Spawn areas generally coincide with rapids, dams or beneath waterfalls (Golder 2011).

In addition to the NHIC search, the Ontario Breeding Bird Atlas (Cadman et al., 2007), the Ontario Reptile and Amphibian Atlas (Ontario Nature, 2013) and the Ontario Mammal Atlas (Dobbyn, 1994) were accessed to determine whether there is a potential for additional endangered and threatened species along the pipeline route. Based on a review of background information and consultation with the MNRF, 14 threatened and endangered species have ranges that overlap the pipeline route, including one species of reptiles, seven species of breeding birds, five species of mammals and one species of plants, as shown in Table 2-3.

Exact locations of species occurrences are not available from these atlases, and the potential for species to be present is limited by habitat suitability and availability. Therefore, the identified species recorded from these atlases may not occur along the pipeline route.

Common Name	Scientific Name	SRANK	Provincial Status (COSSARO)	National Status (COSEWIC)	Source	Potential Habitat? (Y/N)
REPTILES						
Eastern Massasauga (Great Lakes/ St Lawrence)	Sistrurus catenatus catenatus	S3	THR	THR	ORAA	Y

Table 2-3: Terrestrial Species at Risk

Common Name	Scientific Name	SRANK	Provincial Status (COSSARO)	National Status (COSEWIC)	Source	Potential Habitat? (Y/N)
BIRDS						
Chimney Swift	Chaetura pelagica	S4B, S4N	THR	THR	OBBA, MNRF	Y
Barn Swallow	Hirundo rustica	S4B	THR	THR-NS	OBBA, MNRF	Y
Bank Swallow	Riparia riparia	S4B	THR	THR	OBBA, MNRF	Y
Bobolink	Dolichonyx oryzivorus	S4B	THR	THR-NS	OBBA, NHIC	Y
Eastern Meadowlark	Sturnella magna	S4B	THR	THR-NS	OBBA, NHIC	Y
Eastern Whip-poor- will	Antrostomus vociferus	S4B	THR	THR	MNRF	Y
Loggerhead Shrike	Lanius Iudovicianus	S2B	END	END	MNRF	Y
MAMMALS						
Little Brown Myotis	Myotis Iucifugus	S5	END	END	AMO, MNRF	Y
Northern Myotis	Myotis septentrionali s	S3?	END	END	AMO, MNRF	Y
Small-footed Myotis	Myotis leibii	S2S3	END	-	MNRF	Y
Tri-colored Bat	Perimyotis subflavus	S3?	END	END	MNRF	Y
Grey Fox	Urocyon cineroargente us	S1	THR	THR	AMO	Y
FISH						
Lake Sturgeon (Great Lakes - Upper St. Lawrence River population)	Acipenser fulvescens	S2	THR	THR	NHIC	Υ
PLANTS						
Butternut	Juglans cinerea	S3?	END	END	MNRF	Y

Table 2-3: Terrestrial Species at Risk

Notes:

AMO: Atlas of the Mammals of Ontario

END: Endangered - a species facing imminent extinction or extirpation

S?: Rank Uncertain

NATURAL GAS PIPELINE COMMUNITY EXPANSION PROJECT NATURAL HERITAGE STUDY: SAUGEEN FIRST NATION

Existing Conditions March 12, 2018

Although potential habitat for species at risk is present, it is not anticipated that the preferred route alignment traverses any protected or sensitive habitat for species at risk, as it is located within an existing road allowance that is periodically disturbed for maintenance work. In addition, construction techniques will avoid sensitive habitats (i.e. using trenchless technologies such as HDD). Section 3.3 discusses potential impacts and recommended mitigation measures for wildlife and terrestrial species at risk.

2.2 AQUATIC SPECIES AND HABITAT

As part of the assessment of potential environmental impacts, an aquatic habitat assessment was undertaken to document and characterize aquatic features along the pipeline route. The aquatic habitat assessment was undertaken in support of identification of potential impacts and associated mitigation measures.

2.2.1 Background Review

The MNRF's LIO digital mapping indicates that there are 15 watercourse crossings, that include one wetland drainage crossing and three municipal drain crossings, including the following:

- Eight unnamed tributaries to the Saugeen River
- One unnamed tributary to Stoney Creek
- Sang's Creek
- One unnamed tributary to Meuser Municipal Drain
- Meuser Municipal Drain
- One crossing of wetland drainage
- Two crossings of the Underwood Municipal Drain

The Saugeen River is also located near but is not crossed by the pipeline route.

2.2.2 Background Information

Table 2-4 below summarizes MNRF records (Dodge 2017) that indicate the following fish species have been recorded in watersheds crossed by the pipeline route. See Table 2-6 for fish habitat locations.

Table 2-4 Subwatersheds and Associated Watercourse Crossings

Waterbody	Thermal Classification (Dodge 2017; LIO 2017)	Species Present (Dodge 2017; LIO 2017)
Saugeen River	Coldwater	Blacknose Dace (Rhinichthys atratulus)
		Blackside Darter (Percina maculata)
		Bluntnose Minnow (Pimephales notatus)
		Brook Trout (Salvelinus fontinalis)
		Brown Trout (Salmo trutta)

Waterbody	Thermal Classification (Dodge 2017; LIO 2017)	Species Present (Dodge 2017; LIO 2017)
		Chinook Salmon (<i>Oncorhynchus tshawytscha</i>) Creek Chub (<i>Semotilus atromaculatus</i>) Fathead Minnow (<i>Pimephales promelas</i>) Golden Redhorse (<i>Moxostoma erythrurum</i>) Longnose Dace (<i>Rhinichthys cataractae</i>) Northern Redbelly Dace (<i>Chrosomus eos</i>) Rainbow Smelt (<i>Osmerus mordax</i>) Sea Lamprey (<i>Petromyzon marinus</i>) Silver Lamprey (<i>Ichthyomyzon unicuspis</i>) Splake (<i>Salvelinus fontinalis x S. namaycush</i>) Yellow Perch (<i>Perca flavescens</i>)
Stoney Creek	Coldwater	Northern Pike (<i>Esox lucius</i>) Pumpkinseed (<i>Lepomis gibbosus</i>) Rainbow Trout (<i>Oncorhynchus mykiss</i>) Yellow Perch (<i>Perca flavescens</i>)
Sangs Creek	Coldwater	Blacknose Dace (<i>Rhinichthys atratulus</i>) Brook Stickleback (<i>Culaea inconstans</i>) Brown Trout (<i>Salmo trutta</i>) Central Mudminnow (<i>Umbra limi</i>) Creek Chub (<i>Semotilus atromaculatus</i>) Longnose Dace (<i>Rhinichthys cataractae</i>) Ninespine Stickleback (<i>Pungitius pungitius</i>) Pearl Dace (<i>Margariscus nachtriebi</i>) Rainbow Darter (<i>Etheostoma caeruleum</i>) Rainbow Trout (<i>Oncorhynchus mykiss</i>) River Chub (<i>Nocomis micropogon</i>) Spottail Shiner (<i>Notropis hudsonius</i>) White Sucker (<i>Catostomus commersonii</i>)
Meuser Municipal Drain	Unknown	No fish data
Underwood Municipal Drain	N/A	Online data indicates that the drain is tiled

Figures 2.1 to 2.5 in Appendix A illustrate the crossing locations, flow periodicity, and thermal regime provided by the MNRF data for watercourses crossed by the pipeline.

2.2.3 Site Investigations

The purpose of the site investigations was to:

• Document existing conditions within watercourse crossings along the pipeline route

• Determine whether any additional watercourse crossings exist along the pipeline route, other than those identified in the MNRF databases

The pipeline will be installed within the road allowance. Site investigations were conducted on November 27, 2017 where roads along the pipeline route cross watercourses. The survey included crossings identified on MNRF databases and any additional watercourse crossings observed.

Fish habitat was identified using a combination of field observations and background information.

Data collected during field investigations was used to determine the potential that a watercourse supports fish that are part of or support a Commercial, Recreational, or Aboriginal (CRA) fishery, as defined by the federal *Fisheries Act*. It was determined that a watercourse supported a CRA fishery if it met one or more of the following criteria:

- Mapping from LIO database suggests that the watercourse is directly connected to fish habitat downstream
- Conditions of channel suggest that flow is permanent
- Habitat documented during field investigations is suitable to support fish
- Fish were observed near the crossing during field investigations
- There is a surface water feature present at the crossing
- Data indicates the drain classification supports fish
- Instances where the LIO database indicates that the drain is tiled and therefore not present on the surface were determined to not support a CRA fishery

Additional information used to assess habitat sensitivity included using the DFO drainage classification developed for the Municipal Drain Class Authorization Process. Drainage classification is determined by a combination of flow periodicity (i.e., permanent vs. intermittent), thermal regime, fish species present, and time since the last drain cleanout. The classification system provides an indication of fish habitat sensitivity in the drain and the level of approval required for drainage maintenance. For the purposes of this project, drainage classification was used to identify if a drain was classified as fish habitat and if sensitive habitat is present in the drain. Table 2-5 provides a summary of the drainage classification system (Kavanagh et al 2017).

Drain Classification	Flow	Thermal Regime	Species	Time Since Last Cleanout
А	Permanent	Cold/Cool/Unknown	No trout or salmon	N/A
В	Permanent	Warm	Top Predators and/or Ecosystem Indicators	Less than 10 years
С	Permanent	Warm	Forage Fish	N/A

 Table 2-5:
 Drain Classification Summary (Kavanagh et al 2017)

		J J J J J J J J J J J J J J J J J J J	, j	
Drain Classification	Flow	Thermal Regime	Species	Time Since Last Cleanout
D	Permanent	Cold/Cool/Unknown	Trout and/or Salmon	N/A
E	Permanent	Warm	Top Predators and/or Ecosystem Indicators	Greater than 10 years
F	Intermittent	N/A	N/A	N/A

Table 2-5: Drain Classification Summary (Kavanagh et al 2017)

The following drain types are located at watercourse crossings along the pipeline route:

- Meuser Municipal Drain is a Class C drain
- Underwood Municipal Drain is tiled

Table 2-6 provides a summary of habitat characteristics documented at each watercourse crossing. Of the 15 watercourse crossings along the pipeline route, field investigations identified the presence of suitable habitat to support a CRA fishery at 10 crossings.

Crossing ID	Watercourse Name	Supports a CRA fishery	Field Observations	Aquatic Species at Risk Present (DFO 2017)
Crossing 1	Unnamed Tributary to Saugeen River	Yes	 Flow originates east of French Bay Road Tributary consists of a straightened channel that is densely vegetated with grasses. Morphology includes run habitat Riparian zone consists of a combination of trees and grasses Road crossing consists of corrugated steel pipe (CSP) culvert Data indicates flow is intermittent (LIO 2017) 	Yes
Crossing 2	Unnamed Tributary to Saugeen River	Yes	 Same watercourse as Crossing 1 Tributary consists of a meandering channel with gravel and cobble substrates Morphology includes riffles and runs Road crossing consists of CSP culvert Data indicates flow is intermittent (LIO 2017) 	Yes
Crossing 3	Unnamed Tributary to Saugeen River	Yes	 Flow originates north of Joshua Crescent in forested habitat Tributary consists of a straightened channel Morphology includes run habitat Road crossing consists of CSP culvert under a sidewalk that discharges into a concrete box culvert under the road Data indicates flow is intermittent (LIO 2017) 	Yes
Crossing 4	Unnamed Tributary to Saugeen River	Yes	 Same watercourse as Crossing 4 Tributary consists of a straightened channel Morphology includes run habitat Road crossing consists of CSP culvert Data indicates flow is intermittent (LIO 2017) 	Yes
Crossing 5	Wetland Drainage	°Z	 Flow originates in wetland and roadside drainage south of Highway 21 Pools are located upstream and downstream of Highway 21 Densely lined with Reed Canary Grass north and south of highway No defined channel visible beyond Highway 21 Culvert providing drainage across Highway 21 	Q

Table 2-6: Fish Habitat Summary

				Aquistic Species at
Crossing ID	Watercourse Name	Supports a CRA fishery	Field Observations	Risk Present (DFO 2017)
Crossing 6	Unnamed Tributary to Stoney Creek	Yes	 Flow originates in wetland habitat south of Highway 21 Flow is connected to wetland habitat flowing north toward main branch of Stoney Creek Crossing consists of a CSP culvert crossing under Highway 21 Habitat consists of pools located within roadside drainage ditch 	OZ
Crossing 7	Unnamed Tributary to Saugeen River	Yes	 Data indicates flow is intermittent (LIO 2017) Channel visible on west side of B. Line with no visible channel on east side of road 	Yes
Crossing 8	Unnamed Tributary to Saugeen River	Yes	 Flow originates in forested habitat east of B. Line and flows in a westerly direction, connecting to same watercourse as Crossing 8 prior to discharging into the Saugeen River Upstream of B.Line, the channel is poorly defined and is flowing through mown grass Downstream of B Line, the channel is poorly defined and densely lined with Reed Canary Grass Data indicates flow is intermittent (LIO 2017) 	Yes
Crossing 9	Unnamed Tributary to Saugeen River	Yes	 Channel visible on west side of B. Line with no visible channel on east side of road Flow originates in forested habitat east of B. Line and flows in a westerly direction, connecting to same watercourse as Crossings 8 and 9 prior to discharging into the Saugeen River Data indicates flow is intermittent (LIO 2017) 	Yes
Crossing 10	Sang's Creek	Yes	 Originates east of B. Line and flows in a southwesterly direction Road crossing consists of CSP culvert crossing under B. Line 	OZ

Table 2-6: Fish Habitat Summary

Crossing ID	Watercourse Name	Supports a CRA fishery	Field Observations	Aquatic Species at Risk Present (DFO 2017)	
Crossing 11	Unnamed Tributary to Saugeen River	Yes	 Originates in forested area east of B. Line and flows in a westerly direction across B. Line through a CSP culvert Channel parallels the west side of B. Line for approximately 60 m prior to turning west and eventually discharging into the Saugeen River approximately 1 km west of the crossing. Data indicates flow is intermittent (LIO 2017) 	Q	
Crossing 12	Unnamed Tributary to Meuser Municipal Drain	°Z	 Originates east of B. Line, flows west across B. Line through a CSP culvert and then flows in a southwest direction eventually discharging into the Meuser Municipal Drain south of Concession 8 West Arran There is no visible surface feature upstream of B. Line Downstream, the channel is straightened and bordered by cultivated fields Data indicates flow is intermittent (LIO 2017) 	°Z	
Crossing 13	Meuser Municipal Drain	°Z	 Originates northeast of the B. Line CSP crossing and flows in a southwesterly direction. The drain parallels B. Line for approximately 300 m prior to crossing under B. Line and flowing east. Upstream of the crossing, channel is poorly defined within active pasture Downstream, the channel is straightened and bordered by cultivated fields Data indicates flow is intermittent (LIO 2017) 	9 Z	
Crossing 14	Underwood Municipal Drain	No	Data indicates that the drain has been tiled within the Study Area (LIO 2017)	No	
Crossing 15	Underwood Municipal Drain	No	Data indicates that the drain has been tiled within the Study Area (LIO 2017)	No	

ble 2-6: Fish	่า Habitat Summary
	ble 2-6: Fisł

2.2.4 Aquatic Species At Risk

DFO Aquatic Species At Risk Maps (Ontario South West Map 2) indicated there are records for the following aquatic species at risk near the pipeline route:

• Rainbow Mussel (Villosa iris)

Rainbow Mussel is Special Concern under the ESA and Endangered under Schedule 1 of the *Species at Risk Act* (SARA), and therefore, only receives protection under SARA. The *COSEWIC Assessment and Status Report on the Rainbow mussel Villosa iris in Canada* indicates that records within the study area are limited to the Saugeen River and prefers to inhabit permanently flowing watercourses (COSEWIC 2006). The pipeline route does not cross the Saugeen River and therefore the project is not anticipated to impact Rainbow Mussel.

2.2.5 Aquatic Habitat Summary

Based upon background data and field observations, Crossings 1 to 4, and 6 to 11 provide habitat that supports a CRA fishery. Impacts to aquatic species at risk are not anticipated as records are limited to the Saugeen River and the pipeline does not cross the Saugeen River.

3.0 IMPACT ASSESSMENT AND RECOMMENDED MITIGATION

The following sections discuss potential impacts and recommended mitigation measures for the pipeline.

3.1 FOREST AND VEGETATION COVER

Potential Impacts

Vegetative cover within the road allowance generally consists of common, hardy plant species that are adaptable to disturbed environments. The area is dominated by a mixture of agricultural lands, forests, and wetlands with scattered rural residential properties. Mature hedgerows are common along the roadside adjacent to these properties. No natural features are designated as significant. Vegetation removal, while not anticipated, may be required in these areas to accommodate pipeline construction.

Without appropriate mitigation measures, construction activities can adversely impact trees and other vegetation through soil compaction, removal of topsoil and equipment encroachment, causing irreversible damage to roots or trunks and destroying the structural integrity of vegetation or soils. Any filling, excavation, grading or trenching in the root area of a tree has the potential to cause irreversible damage. As well, nest clearing surveys will be required for vegetation clearing activities between April 1st and August 31st to comply with the MBCA. Refer to Section 3.3 for associated wildlife mitigation measures.

Mitigation and Protective Measures

The following mitigation measures, or equivalent, should be implemented to reduce impacts on forests and vegetation cover:

- Municipal requirements or permits for tree cutting will be determined prior to construction.
- If any ornamental trees along the preferred pipeline route need to be removed, staff from Saugeen First Nation and Bruce County should be contacted to determine a tree replacement strategy prior to removal.
- Encroachment into adjacent wooded areas should be avoided and individual tree removal minimized.
- Construction traffic should be restricted to the existing road allowance where possible to avoid potential compression damage to the root zones of trees located adjacent to the road allowance.
- High-traffic or erosion-prone areas of the road allowance should be revegetated with suitable protective cover.
- Reclamation in residential/commercial land areas traversed by the road allowance should involve seeding (or sodding) the disturbed areas and replacement of ornamental trees and shrubs.

The following mitigation measures, or equivalent, should be implemented to protect trees or other vegetation to be retained along the preliminary preferred route:

- Where the pipeline route encroaches on the drip line of specimen trees (i.e. large diameter Oak trees), HDD may be considered to protect the root system where feasible
- Understory vegetation beneath the drip line of specimen trees should be retained in an undisturbed state, where possible
- Any specimen trees or other vegetation to be retained should be surrounded by temporary protective fencing or other measures before any clearing or grading occurs

The following criteria are recommended to be taken into consideration when selecting a seed mix for use in natural vegetation areas:

- Site specific conditions such as climate, soil types and terrain should be considered
- Only local native species should be included
- A fast-growing seed mixture requiring little or no maintenance should be selected
- Seed mixture should be consistent with the land use of the area
- If there is no suitable local native seed mix available but seeding is deemed desirable to promote rapid revegetation of an area, a non-invasive annual nurse crop such as annual ryegrass should be used instead
- Purchased seed should be certified free of weeds

Net Impacts

With effective implementation of the mitigation measures recommended above, no significant adverse residual impacts to forest and vegetation cover are anticipated.

Vegetation removal may be required along the edges of rural roads. Removal will be restricted to cultural hedgerow allowance communities and the edge of natural heritage features that are currently exposed to road traffic and maintenance activities. As vegetation removals are restricted to the edge of natural heritage features, impacts on the ecological function of these features will be minimized.

3.2 WETLANDS

Potential Impacts

The potential impacts on wetlands during construction include accidental contaminant release, sedimentation and turbidity from surface runoff, introduction of invasive species and temporary lowering of the water table during trench dewatering. Clean-up and restoration activities to contain or remove contaminant and sediment releases can cause more damage to sensitive wetland ecology than the initial impact of the release. Therefore, it is important to institute appropriate mitigation measures to minimize interactions with adjacent wetlands.

As construction is planned within the previously disturbed road allowance, no adverse interactions are expected to occur with wetlands along the pipeline route. However, to protect these features, construction activities undertaken in proximity should include the following mitigation measures.

Mitigation and Protective Measures

Cross wetlands encroaching the road ROW using HDD construction methods. Where wetlands are adjacent to the construction areas, and HDD is not to be implemented, silt fencing should be installed to protect the adjacent feature. The following mitigation measures are recommended to reduce impacts to wetlands during construction:

- All activities, including equipment maintenance and refueling, should be controlled to prevent entry of petroleum products or other deleterious substances, including any debris, waste, rubble, or concrete material, into a wetland.
- In the unlikely event of a spill, spills containment and clean-up procedures should be implemented immediately. Union Gas should contact the Ministry of Environment and Climate Change (MOECC) Spills Action Centre. The MOECC Spills Action Centre is the first point of contact for spills at the provincial and federal level.
- Construction material, excess material, construction debris and empty containers should be stored away from adjacent wetlands.
- Temporary work space width should be minimized when working within 30 m of wetlands, where practical.
- Staging areas should be located at least 30 m away from the edge of wetlands.
- Construction dewatering should be discharged to sediment removal basins if discharge to a wellvegetated dry area is not feasible. Locate the sediment removal basin in an area that maximizes the distance to the nearest surface water feature and minimize the slope of the surrounding buffer area. The basin should consist of a temporary enclosure constructed with hay bales, silt fence or both.

Recommended erosion control measures specific to wetlands should include the following:

- Surface runoff should be directed as overland flow with sufficient drainage structures to dissipate hydraulic energy
- Soil transport should be prevented by diversion of site runoff through shallow vegetated channels, placement of straw bales or sediment control fencing
- Sediment barriers should be installed along the edge of the road allowance to contain spoil within the road allowance, where required
- Natural drainage spacing should be provided around spoil piles
- Temporary erosion/silt control structures (i.e., straw bales, sediment fencing) should be used down gradient of spoil stockpiles, as necessary
- Temporary sediment barriers should be maintained until soils are stabilized
- Vegetation clearing should not be conducted within 30 m of a wetland unless required for site construction activity (i.e., within the road allowance)
- If vegetation regeneration is unlikely to occur immediately following construction (i.e., outside the growing season), all impacted slopes adjacent to wetlands should be stabilized using geogrids or weed-free mulch for a minimum of 30 m from the wetland
- Erosion control measures in both active and non-active construction areas should be regularly inspected until the site has been adequately stabilized to prevent erosion

Net Impacts

With the implementation of HDD construction and the above mitigation and protective measures, no significant adverse residual impacts on wetlands are anticipated.

3.3 WILDLIFE HABITAT AND SPECIES AT RISK

Potential Impacts

New pipeline construction impacts on wildlife populations are associated with vibration and compaction of the shoulder as well as direct mortality from animal-vehicle collisions because of increased construction traffic, temporary avoidance behavior due to the presence of humans and equipment and direct loss of habitat (e.g., destruction of nests or alteration of nesting habitat). No new lands or natural areas are anticipated to be assumed for this project. Because the project will be working within a road allowance, mitigation will be primarily targeted at SOCC and ESA 2007 protected species that are known to migrate through the area such as turtles and birds. The preferred habitat for SOCC and ESA 2007 protected species is generally not present in the road allowance and little or no interaction with project activities is anticipated.

Mitigation and Protective Measures

The mitigation measures below, or equivalent, are recommended to minimize potential impacts of the project on wildlife and wildlife habitat:

SOCC and ESA 2007 Protected Species

 Information should be provided to workers on SAR identification and habitat or nesting characteristics. If a SAR is observed, work should be stopped immediately in the vicinity to prevent harm or harassment of the individual. The species can be removed by a qualified ecologist using approved MNRF handling protocols and relocated away from the construction area to prevent incidental harm. Preconstruction surveys will be conducted for bat maternity roosts where tree removal is required.

Plants 1 2 1

• HDD or other avoidance will be used to bypass ground disturbance work within 25 m of any butternut trees. Preconstruction surveys will be conducted for butternut specimens where tree removal is required.

<u>Turtles</u>

- Pre-construction surveys are recommended to identify and mark suitable habitat (i.e. wetland habitat and evidence of nest sites).
- Where possible, restrict all activities within 30 m of a nesting site.
- Exclusion fencing (e.g., silt fence) should be erected on both sides of the road prior to activities occurring in areas identified as having turtles (30 m for SOCC species, 250 m for Blanding's Turtle) or as being high potential, such as stream/river crossings, lake shores, ponds, wetlands, dips or valleys between rock outcrops, wetted ditches connected to natural water features.
- Exclusion fencing should be installed prior to the sensitive nesting season (May 1st and June 30th) if activities are anticipated to occur throughout this period to prevent turtles from entering and/or nesting; or pre-screening can be completed to avoid nests if work must begin during nesting season.
- No heavy machinery should be permitted on the shoulder of the road past the exclusion fencing to prevent compaction and prevent destruction of nests and habitat.

<u>Birds</u>

Tree and vegetation removal (including meadows, hay fields and pastures) should be completed outside of the migratory bird nesting season for zone C2 from April 10th to August 9th to avoid disturbance to nesting birds protected under the MBCA and grassland birds protected by the ESA 2007. Removals could take place during this restricted time only if the requirements of the MBCA are met by completing nest clearing surveys by qualified individuals no more than seven days prior to any clearing activities.

• Restrict any activities to a species-specific radius of an active nest.

Other Wildlife

- Nuisance and large wildlife encounters (e.g., nuisance bears) or incidents involving wildlife should be reported to the MNRF.
- Food waste and other debris should be properly contained and should be collected and removed from the site daily to an approved disposal facility.
- No dogs are permitted on the work site.

Net Impacts

Previous SAR occurrences, appropriate protection measures and a survey of potential turtle nesting sites are intended to be used in the planning and scheduling phase of project activities to assist in avoidance and exclusion of SAR. It is not anticipated that SAR will be encountered or habitat will be altered during this project. However, a permit under ESA 2007 may be required if SAR are encountered and/or if a residence or habitat of a SAR is altered.

With the effective implementation of the above mitigation and protective measures, no significant adverse residual impacts on wildlife habitats and species at risk are anticipated.

3.4 AQUATIC SPECIES AND HABITAT

Potential Impacts

Construction has the potential to affect fish through impacts on water quality (erosion, sedimentation, and accidental spills) and disruption/harassment (vibration and noise). These potential effects may occur due to construction of the pipeline.

Watercourses identified as supporting fish that are part of or support a CRA fishery will be crossed using HDD methods or above the existing culvert where depth of cover is adequate. Therefore, no in-water work will be required. Watercourses identified as not supporting fish that are part of or support a CRA fishery may be crossed using trenched construction methods.

Setback distances for the drill entry and exits pits should be established at 30 m, where possible, from the bankfull width of aquatic habitat and silt fencing installed a minimum of 10 m from the bankfull width. With the successful implementation of mitigation measures, HDD crossings reduce the risk of impacts on sensitive habitats and sedimentation in a watercourse and reduce disturbance to the streambed and banks within the riparian zone. Fish passage and stream flow are also maintained.

If trenched crossings are required at locations that support fish that are part of or support a CRA fishery, other potential impacts could include restrictions to habitat use and fish passage, changes to habitat such as altered substrate composition, increased erosion potential, loss of in-stream cover and loss of riparian shading. Excessive sediment introduced into a watercourse can adversely impact fisheries through

clogging of fish gills, sedimentation of spawning beds and alteration of habitat. There is a potential for these crossings to require DFO review and/or permitting, depending on the outcome of the Self-Assessment process under the *Fisheries Act*.

Mitigation and Protective Measures

The following general mitigation measures, or equivalent, are recommended at watercourse crossings along the pipeline route. Some of the following general measures may not be applicable to HDD crossing methods but are included in the event a trenched crossing is required. Additionally, activity-specific measures related to the crossing methods are provided following the general mitigation measures. All measures presented are intended to be consistent with DFO's measures to avoid serious harm (DFO 2016), which should be consulted immediately prior to construction to confirm that the construction plan is consistent with the most up-to-date list of DFO avoidance measures.

General Mitigation Measures

- In-water work for coldwater habitats is typically permitted from July 1st to September 30th (no work from October 1st to June 30th) (Dodge 2017).
- Watercourses should not be obstructed in a way that impedes the free movement of water and fish.
- Prior to removal of vegetation cover, effective mitigation techniques for erosion and sedimentation should be in place to protect water quality. Disturbance to an area during construction should be limited and grubbing activities should be delayed until immediately prior to grading operations.
- Soil exposure should be reduced prior to commencing construction, and the period that soil remains exposed for grading should be limited. Exposed soils surrounding watercourses should be seeded immediately following construction.
- Temporary erosion and sediment control measures should be maintained and kept in place until work within or near a watercourse has been completed and stabilized. Temporary sediment control measures should be removed at the completion of the work but not until permanent erosion control measures have been established.
- Construction material, excess material, construction debris and empty containers should be stored a minimum of 30 m from watercourses and watercourse banks.
- Equipment maintenance and refueling should be controlled to prevent entry of petroleum products or other deleterious substances, including any debris, waste, rubble, or concrete material, into a watercourse, unless otherwise specified in the contract.
- Deleterious substances (fuel, oil, spoil) should be stored >30 m from the watercourse. Any such material that inadvertently enters a watercourse should be removed in a manner satisfactory to the environmental inspector.
- In the unlikely event of a spill, spills containment and clean-up procedures should be implemented immediately. Union Gas should contact the MOECC Spills Action Centre. The MOECC Spills Action Centre is the first point of contact for spills at the provincial and federal level.

- Conditions of water crossing permit(s), if applicable, are to be adhered to.
- Additional supplies should be maintained on-site, in a readily accessible location, for maintenance and contingency purposes. Prior to construction, adequate quantities of the materials listed below, or comparable substitutions, should be on site to control erosion and sediment deposition:
 - Sediment control fencing
 - Sediment control logs (i.e., SiltSoxx[™])
 - Straw bales
 - Wooden stakes
 - Sand bags
 - Water energy dissipater
 - Filter cloth
 - Water pumps (including stand-by pumps and sufficient lengths of hose)
 - Culvert

Horizontal Directional Drill Mitigation Measures

HDD construction methods for pipeline water crossings will not require DFO review or Authorization under the *Fisheries Act* provided measures to avoid causing serious harm to fish are followed during construction. These measures include locating entry and exit points at sufficient distance to avoid disturbance to the bed and banks, locating the drill path at an appropriate depth below the channel and installation of appropriate sediment and erosion control measures (i.e., silt fencing around disturbed areas, development of a contingency plan, etc.). If these measures are followed, a project of this nature is low risk to fish and can proceed without DFO review.

Mitigation measures as they relate to employing the HDD method are as follows:

- Standard erosion and sediment control measures should be implemented around drill and pipe staging areas.
- Drilling equipment (e.g., drill rig, support equipment, sump) should be set up a minimum of 30 m from the edge of watercourses with the exception of areas where above culvert installations are feasible.
- Clearing of vegetation or grading of watercourse banks should not occur within 30 m from the edge of watercourses with the exception of areas where above culvert installations are feasible.
- A drilling mud release contingency plan should be prepared and kept on-site.
- Suitable drilling mud tanks or sumps should be installed to prevent contamination of watercourses.
- The excavation of relief pits may be required to prevent a drilling mud release into sensitive features. Relief pits should be set back 10 m from sensitive features where possible and be contained using appropriate ESC measures.
- Where needed, berms or check dams should be installed downslope from drill entry and anticipated exit points to contain the release of any drilling mud.
- Drilling mud should be disposed in accordance with the appropriate regulatory authority requirements.

Drilling Mud Release (Inadvertent Returns) Mitigation Measures

The following mitigation measures should be employed to reduce the risk of lost drilling mud circulation:

- Install appropriate berms, silt fencing and secondary containment measures (i.e., plastic tarp) around drilling and drilling mud management equipment at both bore entry and bore exit locations to contain operational spills.
- Clean up operational spills daily to prevent mobilization of drilling mud off site during rain events.
- Design the directional drill so that drilling slurry pressure is minimized and the drilling rate is reduced in porous materials to minimize the chance of loss of circulation of the drilling slurry.
- Maintain smooth operation of the drilling string and slurry pumping systems to avoid pressure surges.
- Reduce slurry viscosity through appropriate filtering of drilled material to reduce the pressure gradient along the drill path due to frictional effects.
- Continually monitor slurry volumes to enable a quick response to any indications of lost circulation.
- Immediately contain any drilling mud that escapes onto land and transfer it into an on-site containment system.

The following materials should be on hand during drilling operations and prepared to employ them in the event of a drilling mud spill or inadvertent return: sand bags, straw bales, silt fencing and a hydrovac truck.

Additional Measures

The contingency method for HDD crossings is a trenched crossing. Additionally, crossings identified as not supporting fish that are part of or support a CRA fishery may be crossed using a trenched construction method. The following measures are applicable to trenched crossings.

Flow Diversion/Dewatering

If in-water works are required, the work area should be isolated from the remainder of the surface water feature. Downstream flows will be maintained using dam and pump or dam and flume techniques. When dewatering the work area, dewatering operations will be managed to prevent erosion and/or release of sediment laden or contaminated water to the waterbody (e.g. settling basin, filter bag, energy dispersion measures). An isolation/containment plan will be designed and implemented to isolate temporary in-water work zones and maintain flow around the work zone. Maintenance of downstream flow will avoid potential upstream flooding and desiccation of downstream aquatic habitat and organisms. To further reduce the potential for flooding during construction, the weather forecast should be monitored prior to the start of construction to ensure that in-water works occur during a dry period.

Fish Rescue Plan

Prior to dewatering the work zone, fish trapped in the construction area should be collected and moved using capture, handling, and release techniques to reduce harm and stress. The intakes of pumping hoses will be equipped with an appropriate device to avoid entraining and impinging fish (see *Measures to Avoid Causing Harm to Fish and Fish Habitat* (2013) at the following DFO website http://www.dfo-mpo.gc.ca/pnw-ppe/measures-mesures-mesures-eng.html). Fish rescue plans will be developed on a site-specific basis and implemented by qualified professionals with the appropriate permitting in place (i.e. MNRF License to Collect Fish for Scientific Purposes).

Site Restoration and Riparian Planting

Following construction, the bed and banks of the crossing locations will be restored to pre-construction conditions to the extent possible in accordance with environmental permits. Bank slopes will be restored to match existing grades; however, alterations may be made to maintain slope stability and limit future erosion. Exposed banks will be re-vegetated with native plants to provide riparian cover and aid in erosion and sediment control. Stream beds will be restored to maintain slopes and tie in with existing grades. Bed material will be replaced to match pre-construction conditions.

Permitting

The *Fisheries Act* prohibits causing serious harm to fish unless authorized by DFO. This applies to work being conducted in or near water bodies that support fish that are part of or that support a CRA fishery. Since November 25, 2013, proponents must take the responsibility to determine whether their projects meet the DFO requirements under the Self-Assessment process. If serious harm cannot be avoided, proponents should contact DFO for a formal review and/or approval under the *Fisheries Act*. Following finalization of plans, a Self-Assessment should be completed for all project activities that have the potential to cause serious harm to fish. If it is determined that serious harm is likely to occur because of project-related activities, a Request for Review should be completed and submitted to DFO to determine approvals requirements under the *Fisheries Act*.

Net Impacts

With the implementation of the HDD construction method and the above mitigation and protective measures, no adverse residual impacts on aquatic species or habitat are anticipated.
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APPENDIX A: FIGURES



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OPCC Review Summary

Saugeen First Nation Project

In March 2018, Union Gas Limited (Union) completed an Environmental Protection Plan (EPP) for the Saugeen First Nation Project (the Project). The EPP was emailed to the Ontario Pipeline Coordinating Committee (OPCC), Indigenous Communities, and local Agencies as part of the OPCC review process on April 17th, 2018. OPCC comments on the EPP were requested to be directed to Zora Crnojacki of the Ontario Energy Board and Evan Tomek of Union by May 31st, 2018.

OPCC comments were received from the Ministry of Tourism, Culture and Sport, Ministry of Transportation, Ministry of Natural Resources and Forestry, Ministry of Energy, Ministry of Environment and Climate Change, Infrastructure Ontario, and the Technical Standards and Safety Authority. Comments were also received from the Municipality of Arran-Elderslie, County of Bruce, Grey Sauble Conservation Authority, and the Saugeen Valley Conservation Authority.

Please see the summary table of all comments received in the OPCC review as well as the complete comments on the following pages:

AGENCY	COMMENT	UNION'S RESPONSE
Ministry of the Environment	1. Email dated April 18 th , 2018	None required.
and Climate Change via		
Crystal Lafrance	Confirmed receipt of the EPP.	
Ministry of Energy via	1. Email dated April 19 th , 2018	None required.
Shereen Smithanik		
	Confirmed receipt of the EPP and would provide	
	comments it necessary.	the manufactory is a state and a
Ministry of Tourism, Culture	1. Email dated April 19 th , 2018 (via Karla	1. Email dated April 24 th , 2018
and Sport	Bardoza)	Confirmed the context information has been
	Requested Union to undate the MTCS contact	undated
	information to include Brooke Herczeg	updated.
	information to include brooke fieldzeg.	2 Email with attached letter dated June 20 th
	2. Email with attached letter dated May 31 st .	2. Email with attached letter dated build 20 , 2018
	2018 (via Brooke Herczeg)	
	(Indicated that the Archaeological Assessments
	Noted that Union is undertaking Cultural	the Ministry referenced were not related to the
	Heritage Studies and had previously completed	project. Describe the Archaeological work being
	Archaeological Assessments for the project.	undertaken for this project.
	3. Email dated July 25 th , 2018 (via Brooke	Described the Cultural Heritage work being
	Herczeg)	undertaken for the project.
	Democratic data Device the formation Number for	
	the Archaeological Assessments	5. Eman dated August 1, 2018
	the Archaeological Assessments.	Provided the Project Information Numbers
	Requested a conv of the Cultural Heritage Study	Trovided the Project information Numbers.
	Requested a copy of the cultural fieldage study.	Confirmed a copy of the Study would be sent to
	Requested future communications go through	the Ministry when it's completed.
	Karla Barboza.	
		Confirmed future communications would go
	3. Email dated August 2 nd , 2018 (via Karla	through Karla Barboza.
	Barboza)	
		4. Update email dated April 2 nd , 2019
	Acknowledged comments.	
		Provided a project update to the Ministry as it
	4. Response email dated April 2 nd , 2019 (via	pertains to Cultural Heritage and Archaeology.

AGENCY	COMMENT	UNION'S RESPONSE
	Karla Barboza)	5. Email dated July 25 th , 2019
	Confirmed Katherine Kirzati would provide comments if necessary.	Acknowledged the review of the Cultural Heritage Overview Report and confirmed the project would commence in 2020.
	5. Email with attached letter dated May 13 th , 2019 (via Katherine Kirzati)	
	Reviewed the Cultural Heritage Overview Report and confirmed that due diligence had been undertaken.	
	Acknowledged that MTCS reviewed and accepted the Archaeological studies.	
County of Bruce/Municipality of	1. Email dated April 19 th , 2018 (via Peggy Rouse, Municipality of Arran-Elderslie)	1. Email dated April 19 th , 2018
Arran-Eldershe	Requested a copy of the Natural Heritage Study.	Provided a copy of the Natural Heritage Study.
	2. Email dated April 20 th , 2018 (via Jack Van	2. Email dated April 24 th , 2018
	Drop, County of Bruce)	Acknowledged comments.
	No comments.	3. Email dated April 27 th , 2018
	3. Email dated April 27 th , 2018 (via Peggy Rouse, Municipality of Arran-Elderslie)	Acknowledged comments.
а.	The Municipality requested that the gas line only crosses B Line road once between Concession 8	
	West Arran and Hwy 21, and has communicated this to Bruce Ahrens (New Business Project Coordinator) and Brian Van Biesbrouck	
	(Construction Superintendent) of Union	
Grey Sauble Conservation	1. Email dated April 23 rd , 2018	1. Email dated April 24 th , 2018
Authority via Lauren McGregor	Indicated that Union will require a permit from the CA to work in the regulated area identified along Hwy 21.	Confirmed that Union would apply for the applicable permits from the CA prior to construction.
	Provided regulated area mapping, a permit application and the 2018 fee schedule for permits	
Ministry of Natural	1. Email dated April 24 th , 2018	1. Email dated April 24 th , 2018
Kesources and Forestry via Ken Mott	Requested contact information for an employee to discuss the project with.	Provided contact information for Evan Tomek (Environmental Planner of Union).
	2. Email dated April 24 th , 2018	2. Phone conversation on April 24 th , 2018
	Requested a phone call.	Provided more detail and background information
	3. Email dated May 31 st , 2018 (addressed to Zora Crnojacki, OEB)	taking place.
	Will be submitted comments to the OEB tomorrow.	 Email dated June 5th, 2018 Addressed the comments regarding Natural
	4. Email dated June 4 th , 2018 with attached letter dated May 31 st , 2018	Heritage/SAR surveys and committed to developing appropriate mitigation measures to protect identified SAR habitat/species.
	Commented on the Natural Heritage Study, the	the contingency plan for watercourse crossings

AGENCY	COMMENT	UNION'S RESPONSE
	location and data sources used in the Natural	and provided the generic sediment control plan.
	Heritage Study, SAR habitat/species and	
	protection measures, and indicated that MNRF	5. Phone conversation on August 10 th , 2018
	approval is not required for watercourse crossings	
	via Horizontal Directional Drilling (HDD) but	Confirmed that Union would be following the
	Union should have a contingency plan in the	proper protocols as they pertain to species at risk
	event that the HDD method fails.	and environmental protection and would be
		following the recommendations made by Stantec
	4. Email dated June 7 th , 2018	in the Natural Heritage Study.
	Passing on the comments to the biologist.	
	5. Phone conversation on August 10 th , 2018	
	Asked if there was anything the MNRF could do	
	to help with the process and indicated that the	
	MNRF had no concerns with the project as long	
	as the proper protocols were in place.	
Infrastructure Ontaria via	1 Email dated April 20th 2018	
Patrick Grace	1. Email dated April 30, 2018	1. Email dated April 30 , 2018
	No comments.	No comments.
Saugeen Valley Conservation Authority via	1. Email with attached letter dated May 31 st , 2018	1. Email with attached letter dated July 11 th , 2018
Link Downing	A permit may be required from the CA and	Described the environmental studies that are
	watercourse and drilling operations under	being completed for the project
	watercourses would be subject to the CA's in	being completed for the project.
	water works timing windows.	Indicated that all the regulated areas would be
		identified during the detail design phase and
	2. Email dated July 13 th , 2018	Union would apply for the necessary permits
		from the CA.
	Requested a copy of the Natural Heritage Study	
	completed by Stantec.	2. Email dated July 23 rd , 2018
		Provided a copy of the Natural Heritage Study
		and said a copy of the "Mitigation Mapping"
		would be forwarded to the CA once it was
		completed.
		3 Email (undate) date April 3 rd 2019
		Provided a project update and a copy of the
Ministry of Transmostation	1 Empli dated May 20th 2010	"Mittigation Mapping".
via Tony Di Fabio	1. Email dated May 30 ^m , 2018	1. Email dated May 30 ^m , 2018
	No comments on the EPP.	Acknowledged comments.
	Confirmed the MTO regional office is in	
	discussions with Union regarding the proposed	
	pipeline along Hwy 21.	
Technical Standards and	1. Email dated June 26 th , 2018	1. Email dated June 28 th , 2018
Safety Authority via	Description of the second seco	D 1111
Kourosh Manouchehri	Requested technical information pertaining to the	Provided the requested technical information.
		2 Empil dated July 24 th 2019
	2 Email with attached latter dated July 10 th	2. Eman dated July 24, 2018
	2018	Confirmed Kourosh would be informed of the
		timing of one of the projects to witness a pressure
	Would like to witness a pressure test for both	test.

AGENCY	COMMENT	UNION'S DESPONSE
	steel and PE pipes for one of the Community Expansion Projects.	Confirmed the most current and updated version of the pressure test procedure would be sent to
	Confirmed the project was in compliance to the requirements of applicable standard CSA Z662-15 and of Oil and Gas Code Adoption Document, FS-238-18.	 Kourosh closer to the project start date. 3. Email dated April 16th, 2019 A project update will be provided by the new manager.
	2. Email dated August 1 st , 2018 Acknowledged comments	TSSA site visit is included in the project plan.
	3. Email dated April 16 th , 2019	Provided the TSSA with an update on three Community Expansion Projects, including
	 Email dated April 16th, 2019 	Saugeen First Nation.
	 Acknowledged comments. 3. Email dated May 2nd, 2019 	
	Requested to be kept in the loop and a site visit to a different Community Expansion Project during construction.	

From:	Lafrance, Crystal (MOECC) <crystal.lafrance@ontario.ca></crystal.lafrance@ontario.ca>
Sent:	April-18-18 9:32 AM
То:	Shelley Bechard
Cc:	Crnojacki, Zora; Chappell, Rick (MOECC); Evan Tomek
Subject:	[External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Thank-you Shelley, we have received and will take a look at the EPP.

Have a wonderful day!

Crystal Lafrance

Air, Pesticides and Environmental Planning Supervisor Ministry of the Environment and Climate Change Southwest Region 733 Exeter Road, London ON N6E 1L3 Tel: 519-873-5055 Fax: 519-873-5020 crystal.lafrance@ontario.ca

From: Shelley Bechard [mailto:sbechard@uniongas.com]
Sent: April-17-18 4:34 PM
To: Lafrance, Crystal (MOECC)
Cc: Crnojacki, Zora; Chappell, Rick (MOECC); Evan Tomek
Subject: Saugeen First Nation Natural Gas Pipeline Project EPP

Good Afternoon,

An Environmental Protection Plan (EPP) for the above mentioned project is attached for your review.

Thanks,

Shelley Bechard Administrative Analyst, Regulatory Projects Union Gas Limited | An Enbridge Company 50 Keil Drive, Chatham, ON N7M 5M1 Tel: 519-436-4600 x5002075 | Cell: 519-365-7788 Email: <u>sbechard@uniongas.com</u> | <u>uniongas.com</u>

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From: Sent: To: Subject: Shelley Bechard April-19-18 12:01 PM Evan Tomek FW: Saugeen First Nation Natural Gas Pipeline Project EPP

Fyi...

Shelley Bechard Administrative Analyst, Regulatory Projects Union Gas Limited | An Enbridge Company 50 Keil Drive, Chatham, ON N7M 5M1 Tel: 519-436-4600 x5002075 | Cell: 519-365-7788 Email: <u>sbechard@uniongas.com</u> | <u>uniongas.com</u>

From: Smithanik, Shereen (ENERGY) [mailto:Shereen.Smithanik@ontario.ca]
Sent: April-19-18 12:00 PM
To: Shelley Bechard
Subject: [External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Hi Shelley,

I would like to confirm receipt. I will review and provide comments if needed.

Bests, Shereen

From: Shelley Bechard [mailto:sbechard@uniongas.com]
Sent: April 17, 2018 4:33 PM
To: Smithanik, Shereen (ENERGY) <<u>Shereen.Smithanik@ontario.ca</u>>
Cc: Crnojacki, Zora <<u>zora.crnojacki@ontarioenergyboard.ca</u>>; Evan Tomek <<u>ETomek@uniongas.com</u>>
Subject: Saugeen First Nation Natural Gas Pipeline Project EPP

Good Afternoon,

An Environmental Protection Plan (EPP) for the above mentioned project is attached for your review.

Thanks,

Shelley Bechard Administrative Analyst, Regulatory Projects Union Gas Limited | An Enbridge Company 50 Keil Drive, Chatham, ON N7M 5M1 Tel: 519-436-4600 x5002075 | Cell: 519-365-7788 Email: sbechard@uniongas.com | uniongas.com This email communication and any files transmitted with it may contain confidential and or proprietary information and is provided for the use of the intended recipient only. Any review, retransmission or dissemination of this information by anyone other than the intended recipient is prohibited. If you receive this email in error, please contact the sender and delete this communication and any copies immediately. Thank you.

From:Evan TomekSent:April-24-18 11:32 AMTo:'Barboza, Karla (MTCS)'Cc:Herczeg, Brooke (MTCS); zora.crnojacki@ontarioenergyboard.ca; Shelley BechardSubject:RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Hi Karla,

Thank you for your response.

I have updated the contact info and will continue to forward any notices and/or communications related to the project to you and Brooke per your request.

Thanks again,

Evan Tomek, BES

Environmental Planner on behalf of Union Gas Limited | An Enbridge Company 745 Richmond Street | Chatham, ON N7M 5J5 Tel: 519.436.2460 ext 5236904 Cell: 226.229.9598 email: <u>etomek@uniongas.com</u>



From: Barboza, Karla (MTCS) [mailto:Karla.Barboza@ontario.ca]
Sent: April-19-18 12:03 PM
To: Shelley Bechard; Evan Tomek
Cc: Herczeg, Brooke (MTCS); zora.crnojacki@ontarioenergyboard.ca
Subject: [External] FW: Saugeen First Nation Natural Gas Pipeline Project EPP

Hi Shelley and Evan,

Thanks for submitting the Environmental Protection Plan report for the Saugeen First Nation Natural Gas Pipeline Project to the Ministry of Tourism, Culture and Sport (MTCS). MTCS will review the report and will provide comments, as appropriate, by May 31, 2018.

Could you please update the contact info for the ministry to include both myself and Brooke Herczeg:

- Karla Barboza | Team Lead Heritage (Acting) | 416-314-7120 | karla.barboza@ontario.ca
- Brooke Herczeg | Heritage Planner (Acting) | 416-314-7133 | brooke.herczeg@ontario.ca

Please continue to forward any notices and/or communications related to this EA project to both myself and Brooke.

Thanks, Karla Karla Barboza MCIP, RPP, CAHP | (A) Team Lead, Heritage Ministry of Tourism, Culture and Sport Culture Division | Programs and Services Branch | Heritage Program Unit T. 416.314.7120 | fax: 416.212.1802 | Email: <u>karla.barboza@ontario.ca</u>

From: Shelley Bechard [mailto:sbechard@uniongas.com]
Sent: April 17, 2018 4:35 PM
To: Hatcher, Laura (MTCS)
Cc: Crnojacki, Zora; Evan Tomek
Subject: Saugeen First Nation Natural Gas Pipeline Project EPP

Good Afternoon,

An Environmental Protection Plan (EPP) for the above mentioned project is attached for your review.

Thanks,

Shelley Bechard Administrative Analyst, Regulatory Projects Union Gas Limited | An Enbridge Company 50 Keil Drive, Chatham, ON N7M 5M1 Tel: 519-436-4600 x5002075 | Cell: 519-365-7788 Email: <u>sbechard@uniongas.com</u> | <u>uniongas.com</u>

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From:	Herczeg, Brooke (MTCS) <brooke.herczeg@ontario.ca></brooke.herczeg@ontario.ca>
Sent:	May-31-18 10:43 AM
То:	Evan Tomek
Cc:	Zora.Crnojacki@ontarioenergyboard.ca; Barboza, Karla (MTCS)
Subject:	[External] Saugeen First Nations Pipeline Project
Attachments:	2018.05.31 Notice of Completion Commentsn 00007247.pdf

Dear Mr. Tomek,

Please find the attached MTCS comments for the above noted project. If you have any questions please feel free to contact me.

Thank you, Brooke Brooke Herczeg MPL Herchage Brooke Herczeg MPL Herchage Brooke 1900 Theory of the second Ministry of Tourism, Culture and Sport

Heritage Program Unit Programs and Services Branch 401 Bay Street, Suite 1700 Toronto ON M7A 0A7 Tel: 416 314 7133 Fax: 416 212 1802 Ministère du Tourisme, de la Culture et du Sport

Unité des programmes patrimoine Direction des programmes et des services 401, rue Bay, Bureau 1700 Toronto ON M7A 0A7 Tél: 416 314 7133 Téléc: 416 212 1802



May 31st 2018 (EMAIL ONLY)

Evan Tomek Environmental Planner Union Gas Limited P.O.Box 2001, 50 Keil Drive North, Chatham ON N7M 5M1 E: <u>ETomek@uniongas.com</u>

RE:	MTCS file #:	0007247
	Proponent:	Union Gas
	Subject:	Notice of Completion
		Union Gas Saugeen First Nation Natural Gas Pipeline Project
	Location:	Saugeen Shores, Bruce, Ontario

Dear Mr. Tomek:

Thank you for providing the Ministry of Tourism, Culture and Sport (MTCS) with the Notice of Completion of the Environmental Protection Plan (EPP) for the Saugeen First Nation Natural Gas Pipeline Project. MTCS's interest in this Environmental Assessment (EA) project relates to its mandate of conserving Ontario's cultural heritage, which includes:

- Archaeological resources, including land-based and marine;
- · Built heritage resources, including bridges and monuments; and,
- Cultural heritage landscapes.

Under the EA process, the proponent is required to determine a project's potential impact on cultural heritage resources.

Project Description

Union Gas has proposed an expansion program that will bring natural gas service to the residents and businesses of Saugeen First Nation.

MTCS has reviewed the EPP for the Saugeen First Nation Natural Gas Pipeline Project dated March 2018 prepared by Union Gas Limited and has the following comments;

Archaeological Resources

The Stage 1 Archaeological Assessment (P018-0720-2015) has been entered into the Ontario Public Register of Archaeological Reports as compliant. Recommendations from this report indicate that the entire area that will potentially be impacted by the construction of the new culvert was assessed and resulted in the determination that 90 percent of the study area has been disturbed by road and culvert construction and associate ditching and the installation of a water main on the north side of the road. The remaining lands are steeply sloped or low and permanently west areas. Based on the information contained in the report, the ministry is satisfied that the fieldwork and reporting for the archaeological assessment are consistent with the Ministry's 2011 Standards and Guidelines for Consultant Archaeologists. This report didn't recommend further archaeological assessment work.

Section Cultural Heritage Resources (page 9 of PdF) indicates that a stage 2 AA will be completed at such areas prior to construction in accordance with MTCS guidelines. MTCS recommends that this is

clarified in both this Section as well as in Appendix B - Table 1 (Pipeline Construction Mitigation Summary).

Built Heritage and Cultural Heritage Landscapes

Section Cultural heritage Resources (page 9 of the PDF) indicates that "Union has retained a Cultural Heritage Specialist from Aecom to review the running line for potential cultural heritage landscapes and built heritage resources. Union will follow the recommendations of the Specialist". Please submit any technical cultural heritage studies for MTCS review as soon as possible. MTCS may have additional comments on this section as well as Appendix B - Table 1 (Pipeline Construction Mitigation Summary).

Appendix B (page 14 of PdF) indicates that cemeteries are located within the study area and may be impacted. MTCS recommends that cemeteries will need to be addressed also in the technical cultural heritage study (e.g. a Cultural Heritage Evaluation Report by Union Gas' heritage consultant).

Thank you for consulting MTCS on this project, if you have any questions or wish to discuss something please feel free to contact me.

Sincerely,

Brooke Herczeg Heritage Planner Brooke.Herczeg@Ontario.ca

Copied to: Zora Crnojacki - Coordinator Ontario Pipeline Coordination Committee Ontario Energy Board Zora.Crnojacki@ontarioenergyboard.ca

Karla Barboza - (A) Team Lead Heritage Program Unit Ministry of Tourism, Culture and Sport Karla.barboza@ontario.ca

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. MTCS makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MTCS be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Please notify MTCS if archaeological resources are impacted by EA project work. All activities impacting archaeological resources must cease immediately, and a licensed archaeologist is required to carry out an archaeological assessment in accordance with the Ontario Heritage Act and the Standards and Guidelines for Consultant Archaeologists.

If human remains are encountered, all activities must cease immediately and the local police as well as the Registrar, Burials of the Ministry of Government and Consumer Services (416-326-8800) must be contacted. In situations where human remains are associated with archaeological resources, MTCS should also be notified to ensure that the site is not subject to unlicensed alterations which would be a contravention of the Ontario Heritage Act.

From: Sent: To: Cc: Subject: Attachments: Evan Tomek June-20-18 1:23 PM Herczeg, Brooke (MTCS) 'Barboza, Karla (MTCS)' UGL Saugeen First Nation Natural Gas Pipeline Project UGL_Saugeen_MTCS.pdf

Hi Brooke,

In response to your letter dated May 31st, 2018 I have attached a letter to address your comments concerning Union Gas Limited's proposed Saugeen First Nation Natural Gas Pipeline Project.

Thank you for your review of the Environmental Protection Plan and for your associated comments.

If you have any questions or concerns, please let me know.

Thanks,

Evan Tomek, BES

Environmental Planner on behalf of Union Gas Limited | An Enbridge Company 745 Richmond Street | Chatham, ON N7M 5J5 Tel: 519.436.2460 ext 5236904 Cell: 226.229.9598 email: etomek@uniongas.com





June 20, 2018 (EMAIL ONLY)

Ms. Brooke Herczeg Heritage Planner Ministry of Tourism, Culture & Sport Heritage Program Unit Programs and Services Branch 401 Bay Street, Suite 1700 Toronto, ON M7A 0A7 Brooke.Herczeg@ontario.ca

Re: Union Gas Limited Saugeen First Nation Natural Gas Pipeline Project

Dear Ms. Herczeg,

Thank you for your review of the Environmental Protection Plan (EPP) for the above noted project and for providing comments in your letter dated May 31, 2018. In an effort to address your comments, I have provided responses below under the headings provided in your letter:

Archaeological Resources

The Stage 1 Archaeological Assessment (P018-0720-2015) referenced in your letter is not related to the proposed project. Union Gas Limited (UGL) has retained Timmins Martelle Heritage Consultants Inc. to complete a Stage 1&2 Archaeological Assessment for the proposed pipeline, and is scheduled to be completed during summer 2018. The Stage 1&2 Archaeological Report will be submitted to the Ministry of Tourism, Culture and Sport (MTCS) for review at such time. UGL will adhere to the recommendations of the report subject to MTCS review and acceptance of the report into the provincial registry.

Built Heritage and Cultural Heritage Landscapes

Accom will be completing the Cultural Heritage Study for the proposed project in summer/fall 2018 and will submit the technical heritage studies to the MTCS at that time.

No cemeteries have been identified within the project area and therefore impacts are not anticipated.

Thank you again for your time. If you have any questions, please contact me at 1-519-436-2460 x 5236904 or by email at <u>ETomek@uniongas.com</u>.

Yours very truly,

202

P.O. Box 2001, 50 Keil Drive North, Chatham, ON, N7M 5M1 www.uniongas.com Union Gas Limited

Evan Tomek Environmental Planner Union Gas Limited

Cc: Ms. Karla Barboza, Team Lead – Heritage (Acting), MTCS, karla.barboza@ontario.ca

From:	Barboza, Karla (MTCS) <karla.barboza@ontario.ca></karla.barboza@ontario.ca>
Sent:	April-02-19 4:11 PM
То:	Evan Tomek
Cc:	Kirzati, Katherine (MTCS)
Subject:	[External] MTCS File 0007247: UGL Saugeen First Nation Natural Gas Pipeline Project
Attachments:	Rpt-UnionGas-2018-12-21-CommExpSFN-60578917.pdf; ENTERED INTO REGISTER
	Archaeological Report for P316-0375-2019.pdf

Hi Evan,

Thanks for the update on this project and for sending the Cultural Heritage Overview Report. I copied Katherine Kirzati, MTCS Heritage Planner.

Katherine will review the Cultural Heritage Overview Report and provide comments, if any.

Thanks again, Karla

Karla Barboza MCIP, RPP, CAHP | (A) Team Lead. Heritage Ministry of Tourism. Culture and Sport Culture Division | Programs and Services Branch | Heritage Planning Unit T. 416.314.7120 | Email: karla.barboza@ontario.ca

From: Evan Tomek <ETomek@uniongas.com>
Sent: April-02-19 3:52 PM
To: Barboza, Karla (MTCS) <Karla.Barboza@ontario.ca>
Subject: RE: UGL Saugeen First Nation Natural Gas Pipeline Project

Hi Karla,

Another update, and I figured I'd continue this old email chain for some background info.

We have also been given the go ahead to continue working on the Saugeen First Nation Natural Gas Pipeline Project.

Aecom completed a Cultural Heritage Study (December 2018) and I have attached it for you.

Timmins Martelle is continuing with working on the Archaeological Assessment for the project, and received approval for the proposed project (attached) aside from surveys to occur on Denny's Dam Road and on Highway 21 between French Bay Road and Craig Street. These surveys are currently planned to occur in spring 2019.

Thanks again and please let me know if you have any questions.

Evan

From: Barboza, Karla (MTCS) [mailto:Karla.Barboza@ontario.ca] Sent: August-02-18 5:20 PM To: Evan Tomek Subject: [External] RE: UGL Saugeen First Nation Natural Gas Pipeline Project

Thanks Evan!

Karla

Karla Barboza MCIP, RPP, CAHP | (A) Team Lead, Heritage Ministry of Tourism, Culture and Sport Culture Division | Programs and Services Branch | Heritage Program Unit T. 416.314.7120 | fax: 416.212.1802 | Email: <u>karla.barboza@ontario.ca</u>

From: Evan Tomek [mailto:ETomek@uniongas.com]
Sent: August-01-18 1:07 PM
To: Barboza, Karla (MTCS)
Subject: RE: UGL Saugeen First Nation Natural Gas Pipeline Project

Hi Karla,

Per Brooke's note, I will be continuing communications with yourself.

To answer Brooke's question regarding Project Information Numbers for the Stage 1 & 2 Archaeological Assessment:

P316-0347-2017 - Stage 1 P316-0357-2018 - Stage 2

The cultural heritage study will also be completed prior to ground disturbance.

Thanks,

Evan

From: Herczeg, Brooke (MTCS) [mailto:Brooke.Herczeg@ontario.ca]
Sent: July-25-18 11:30 AM
To: Evan Tomek
Cc: Barboza, Karla (MTCS)
Subject: [External] RE: UGL Saugeen First Nation Natural Gas Pipeline Project

Dear Mr. Tomek,

Thank you for providing additional information with regards to the Saugeen First Nation Natural Gas Pipeline Project prepared by Union Gas Limited, dated March 2018.

Archaeological Resources

Thank you for also clarifying about archaeological assessment reports. The Environmental Protection Plan report, on page 9 of the PDF in Section Cultural Heritage Resources, indicates that Timmins Martelle Heritage Consultants Inc has completed a Stage 1 AA. Could you please advise what the Project Information Number is for the Stage 1&2 AA to be completed by Timmins Martelle Heritage Consultants?

Built Heritage and Cultural Heritage Landscapes

MTCS looks forward to reviewing the Cultural Heritage Study in the summer/fall 2018. These technical cultural heritage studies should be completed prior to detail design and/or any ground disturbance.

As of Monday, I will no longer be with the Ministry. Any further questions or communications, please contact Karla Barboza (karla.barboza@ontario.ca).

Thank you, Brooke Brooke Herczeg MPL

Brooke.Herczeg@ontario.ca

From: Evan Tomek [mailto:ETomek@uniongas.com]
Sent: June-20-18 1:23 PM
To: Herczeg, Brooke (MTCS)
Cc: Barboza, Karla (MTCS)
Subject: UGL Saugeen First Nation Natural Gas Pipeline Project

Hi Brooke,

In response to your letter dated May 31st, 2018 I have attached a letter to address your comments concerning Union Gas Limited's proposed Saugeen First Nation Natural Gas Pipeline Project.

Thank you for your review of the Environmental Protection Plan and for your associated comments.

If you have any questions or concerns, please let me know.

Thanks,

Evan Tomek, BES

Environmental Planner on behalf of Union Gas Limited | An Enbridge Company 745 Richmond Street | Chatham, ON N7M 5J5 Tel: 519.436.2460 ext 5236904 Cell: 226.229.9598 email: <u>etomek@uniongas.com</u>



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From:	Evan Tomek
Sent:	July-25-19 10:00 AM
То:	'Kirzati, Katherine (MTCS)'
Cc:	Newton, Craig (MECP)
Subject:	RE: 0007247 -Union Gas -Saugeen FN Gas Pipeline -MTCS Comments on CHOR

Hi Katherine,

My apologies for the delay in thanking you for your review of and comments on the Cultural Heritage Over Report prepared by Aecom for the Saugeen First Nation Natural Gas Pipeline Project.

The project is currently scheduled to commence in spring/summer 2020.

Thanks again,

Evan

Evan Tomek, BES Sr. Analyst, Environment Enbridge Inc. 745 Richmond Street | Chatham, ON N7M 5J5 Tel: 519.436.2460 ext 5236904 Cell: 226.229.9598 email: etomek@uniongas.com

From: Kirzati, Katherine (MTCS) [mailto:Katherine.Kirzati@ontario.ca]
Sent: May-13-19 12:54 PM
To: Evan Tomek; Newton, Craig (MECP)
Subject: [External] 0007247 -Union Gas -Saugeen FN Gas Pipeline -MTCS Comments on CHOR

Good Afternoon Evan:

Attached please find our comments on the Cultural Heritage Overview Report.

Regards, Katherine

Katherine Kirzati Heritage Planner Programs and Services Branch Ministry of Tourism, Culture and Sport 401 Bay St, Suite 1700 Foronto, ON M7A 2R9 416.314 7643 katherine.kirzati@ontario.ca Ministry of Tourism, Ministère du Tourisme, **Culture and Sport** de la Culture et du Sport Programs and Services Branch Direction des programmes et des services 401, rue Bay, Bureau 1700 401 Bay Street, Suite 1700 Toronto ON M7A 0A7 Toronto ON M7A 0A7 Tel: 416.314.7643 Tél: 416.314.7643 13 May 2019 Email Only Evan Tomek Environmental Planner

Union Gas Limited 745 Richmond Street Chatham, ON N7M 5J5 etomek@uniongas.com

MTCS File 0007247 : Proponent Union Gas Limited 2 Subject **Cultural Heritage Overview Report - Review** : Saugeen Ojibway First Nation Community Expansion Project -Project : **Natural Gas Pipeline** Location Northerly along B Line, from the existing Union Gas pipeline on : Bruce Road 17 to Highway 21, Municipality of Arran-Elderslie, then extend east-west along Highway 21 between Craig Street and Scotch Settlement Road, Chippewa Hill Community, Saugeen First Nation, Reserve No. 29

Dear Mr. Tomek:

Thank you for providing the Ministry of Tourism, Culture and Sport (MTCS) with the Cultural Heritage Overview Report (CHOR) prepared by AECOM in February 2019 for the above-referenced project. MTCS's interest in this natural gas pipeline project relates to its mandate of conserving Ontario's cultural heritage, which includes:

- archaeological resources, including land and marine;
- built heritage resources, including bridges and monuments; and,
- cultural heritage landscapes.

Project Summary

Union Gas Limited is proposing the installation of a natural gas pipeline, approximately 16.5 km in length to service the Saugeen First Nation community, consisting of 2" and 4" polyethylene distribution pipelines. This project is proceeding under the Ontario Energy Board's (OEB) *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario.* The Cultural Heritage Overview Report (CHOR) was prepared in compliance with these guidelines.

Review of CHOR

MTCS has reviewed the CHOR and finds that due diligence has been undertaken in:

- identifying the rural agricultural landscape as having potential for cultural heritage value
- identifying potential cultural heritage resources within the Chippewa Hill community
- confirming that there are no listed or designated heritage properties within the study area
- outlining the direct and indirect impacts of the project and concluding that there are no



mitigation measures to recommend

- recognizing that impacts from vibration can be demonstrated on buildings that are less than 40 metres from the road
- noting that preventative measures may be required to mitigate impacts from staging and construction activity
- acknowledging that the routing of the pipeline has not been confirmed
- recommending that further evaluation and/or impact assessment by a qualified heritage consultant may be required if the final route or other project plans are anticipated to result in impacts

Archaeological Resources

MTCS acknowledges that a Stage 1 and 2 archaeological assessment (PIF # P316-0375-2019) was completed by Timmins Martelle Heritage Consultants Inc. and submitted to MTCS on March 08, 2019. MTCS reviewed the report and issued its compliance letter on March 12, 2019. The report has been entered into the Ontario Public Register of Archaeological Reports.

Thank you for consulting MTCS on this project and please continue to do so throughout the process. If you have any questions or require clarification, do not hesitate to contact me.

Regards,

Katherine Kirzati Heritage Planner <u>katherine.kirzati@ontario.ca</u>

c: Craig Newton, MECP

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. MTCS makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MTCS be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Please notify MTCS if archaeological resources are impacted by EA project work. All activities impacting archaeological resources must cease immediately, and a licensed archaeologist is required to carry out an archaeological assessment in accordance with the Ontario Heritage Act and the Standards and Guidelines for Consultant Archaeologists.

If human remains are encountered, all activities must cease immediately and the local police as well as the Registrar, Burials of the Ministry of Government and Consumer Services (416-326-8800) must be contacted. In situations where human remains are associated with archaeological resources, MTCS should also be notified to ensure that the site is not subject to unlicensed alterations which would be a contravention of the *Ontario Heritage Act*.
From: Sent: To: Subject: Evan Tomek April-24-18 1:14 PM 'jvandorp@brucecounty.on.ca' RE: [External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Hi Jack,

Thank you for your review of the EPP for the Project. Should you have any future comments or questions, please don't hesitate to contact me by email or at the phone numbers listed below.

Thanks again,

Evan Tomek, BES

Environmental Planner on behalf of Union Gas Limited | An Enbridge Company 745 Richmond Street | Chatham, ON N7M 5J5 Tel: 519.436.2460 ext 5236904 Cell: 226.229.9598 email: etomek@uniongas.com



From: Shelley Bechard Sent: April-20-18 1:28 PM To: Evan Tomek Subject: FW: [External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Fyi...

Shelley Bechard Administrative Analyst, Regulatory Projects Union Gas Limited | An Enbridge Company 50 Keil Drive, Chatham, ON N7M 5M1 Tel: 519-436-4600 x5002075 | Cell: 519-365-7788 Email: <u>sbechard@uniongas.com</u> | <u>uniongas.com</u>

From: Jack Van Dorp [mailto:jvandorp@brucecounty.on.ca]
Sent: April-20-18 1:17 PM
To: Shelley Bechard; Peggy Rouse
Cc: Planning Applications Wiarton
Subject: RE: [External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Thanks,

I have undertaken a brief review of this document and have no comments at this time.

Jack Van Dorp Senior Planner Planning and Development Corporation of the County of Bruce

519-534-2092 ext 125 www.brucecounty.on.ca



From: Shelley Bechard [mailto:sbechard@uniongas.com]
Sent: Thursday, April 19, 2018 4:32 PM
To: Peggy Rouse <clerk@arran-elderslie.ca>
Cc: Planning Applications Wiarton <PlanningApplicationsWiarton@brucecounty.on.ca>
Subject: RE: [External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Hi Peggy,

Please find Exhibit E attached.

Thanks.

Shelley Bechard Administrative Analyst, Regulatory Projects Union Gas Limited | An Enbridge Company 50 Keil Drive, Chatham, ON N7M 5M1 Tel: 519-436-4600 x5002075 | Cell: 519-365-7788 Email: <u>sbechard@uniongas.com</u> | <u>uniongas.com</u>

From: Peggy Rouse [mailto:clerk@arran-elderslie.ca] Sent: April-19-18 4:22 PM To: Shelley Bechard Cc: <u>bcplwi@brucecounty.on.ca</u> Subject: [External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Good Afternoon Shelley:

The Municipality did not receive a copy of Appendix E – Natural Heritage Study.

Yours truly, The Corporation of the Municipality of Arran-Elderslie Per:

(Mrs.) Peggy Rouse Clerk-Administrator Municipality of Arran-Elderslie 1925 Bruce Road 10 P.O. Box 70 Chesley, ON NOG 1L0 S19-363-3039 Ext. 118 519-363-2203 clerk@arran-elderslie.ca

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Please consider the environment before printing this email note.

From: Shelley Bechard [mailto:sbechard@uniongas.com]
Sent: Tuesday, April 17, 2018 4:24 PM
To: bcplwi@brucecounty.on.ca
Cc: KVanMyall@brucecounty.on.ca; KCoulter@brucecounty.on.ca; clerk@arran-elderslie.ca; Evan Tomek
Subject: Saugeen First Nation Natural Gas Pipeline Project EPP

Good Afternoon,

An Environmental Protection Plan (EPP) for the above mentioned project is attached for your review.

Thanks,

Shelley Bechard Administrative Analyst, Regulatory Projects Union Gas Limited | An Enbridge Company 50 Keil Drive, Chatham, ON N7M 5M1 Tel: 519-436-4600 x5002075 | Cell: 519-365-7788 Email: sbechard@uniongas.com | uniongas.com

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From: Sent: To: Cc: Subject: Evan Tomek April-27-18 2:16 PM 'Peggy Rouse' bcplwi@brucecounty.on.ca; Shelley Bechard RE: [External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Hi Peggy,

I appreciate your review of the Environmental Protection Plan and update on the communications between the Municipality and Bruce Ahrens regarding the proposed running line along B Line.

If you have any other questions please feel free to contact me.

Thanks,

Evan Tomek, BES

Environmental Planner on behalf of Union Gas Limited | An Enbridge Company 745 Richmond Street | Chatham, ON N7M 5J5 Tel: 519.436.2460 ext 5236904 Cell: 226.229.9598 email: <u>etomek@uniongas.com</u>



From: Peggy Rouse [mailto:clerk@arran-elderslie.ca]
Sent: April-27-18 1:37 PM
To: Shelley Bechard
Cc: Evan Tomek; <u>bcplwi@brucecounty.on.ca</u>
Subject: [External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Good Afternoon Shelley:

Upon review of the attached documents, the Municipality has one (1) comment.

The Municipality has been in conversation with Bruce Ahrens, New Business Project Coordinator, Employee of Aerotek: On assignment at Union Gas this spring regarding the placement of the new gas main up the B Line to service the Saugeen First Nation. Appendix A – Project Location Map doesn't indicate the exact location of the new gas line along the B Line.

The Municipality has communicated to Mr. Ahrens that the proposed section of gas main from Bruce County Road 17 to Concession 8 West Arran looks good but from Concession 8 West Arran north to Highway 21 the proposed location of the gas line going from one side of the road to the other side of the road based on the Bell Canada line. The Municipality indicated that they did not have a concern about the offset distances from edge of road to property line, but the municipality is asking that that the gas line only cross the B Line road <u>once</u> between Concession 8 West Arran and Hwy 21.

Mr. Ahrens has communicated to Scott McLeod, Public Works Manager that this information has been copied to Brian Van Biesbrouck as he has been put in charge of the construction of this project.

Yours truly, The Corporation of the Municipality of Arran-Elderslie Per:

(Mrs.) Peggy Rouse

Clerk-Administrator Municipality of Arran-Elderslie 1925 Bruce Road 10 P.O. Box 70 Chesley, ON NOG 1L0 © 519-363-3039 Ext. 118 S19-363-2203 clerk@arran-elderslie.ca

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Please consider the environment before printing this email note.

From: Shelley Bechard [mailto:sbechard@uniongas.com]
Sent: Tuesday, April 17, 2018 4:24 PM
To: bcplwi@brucecounty.on.ca
Cc: KVanMyall@brucecounty.on.ca; KCoulter@brucecounty.on.ca; clerk@arran-elderslie.ca; Evan Tomek
Subject: Saugeen First Nation Natural Gas Pipeline Project EPP

Good Afternoon,

An Environmental Protection Plan (EPP) for the above mentioned project is attached for your review.

Thanks,

Shelley Bechard Administrative Analyst, Regulatory Projects Union Gas Limited | An Enbridge Company 50 Keil Drive, Chatham, ON N7M 5M1 Tel: 519-436-4600 x5002075 | Cell: 519-365-7788 Email: <u>sbechard@uniongas.com</u> | <u>uniongas.com</u> This email communication and any files transmitted with it may contain confidential and or proprietary information and is provided for the use of the intended recipient only. Any review, retransmission or dissemination of this information by anyone other than the intended recipient is prohibited. If you receive this email in error, please contact the sender and delete this communication and any copies immediately. Thank you.

From: Sent: To: Subject: Evan Tomek April-24-18 1:23 PM 'l.mcgregor@greysauble.on.ca' RE: Saugeen First Nation Natural Gas Pipeline Project - Permit required

Hi Lauren,

Thank you for your review of the Environmental Protection Plan for the aforementioned project and your identification of the regulated areas along Highway 21.

Union Gas will apply to the GSCA for a permit to work in these areas prior to construction, which is currently planned for spring 2019.

Thank you for your time.

Evan Tomek, BES

Environmental Planner on behalf of Union Gas Limited | An Enbridge Company 745 Richmond Street | Chatham, ON N7M 5J5 Tel: 519.436.2460 ext 5236904 Cell: 226.229.9598 email: etomek@uniongas.com



From: Shelley Bechard Sent: April-23-18 10:49 AM To: Evan Tomek Subject: FW: Saugeen First Nation Natural Gas Pipeline Project - Permit required

Are you the only one that has to receive this?

Shelley Bechard Administrative Analyst, Regulatory Projects Union Gas Limited | An Enbridge Company 50 Keil Drive, Chatham, ON N7M 5M1 Tel: 519-436-4600 x5002075 | Cell: 519-365-7788 Email: <u>sbechard@uniongas.com</u> | <u>uniongas.com</u>

From: Lauren McGregor [mailto:l.mcgregor@greysauble.on.ca]
Sent: April-23-18 10:38 AM
To: Shelley Bechard
Cc: Andrew Sorensen; e.downing@svca.on.ca
Subject: [External] Saugeen First Nation Natural Gas Pipeline Project - Permit required

Good Morning Shelly,

After the initial review of the proposed Pipeline Project the GSC has determined that you will require a permit for work along Highway 21 where the pipeline route will intersect with the Ontario Regulated 151/06 area, as shown generally in the attached mapping. I have attached a permit application form and the 2018 Fee Schedule.

If you have any questions please do not hesitate to contact me.

Lauren McGregor

Planning Technician Grey Sauble Conservation Authority 237897 Inglis Falls Road Owen Sound, ON, N4K 5N6 Phone: (519) 376-3076 ext. 246 Fax: (519) 371-0437

From:	Mott, Ken (MNRF) <ken.mott@ontario.ca></ken.mott@ontario.ca>
Sent:	June-07-18 10:20 AM
То:	Evan Tomek
Subject:	[External] RE: Bruce County Natural Gas Pipeline Project EPP

Thanks for the quick response Evan. I'll share it with our biologist and respond as quickly as I can.

From: Evan Tomek [mailto:ETomek@uniongas.com]
Sent: June-05-18 5:41 PM
To: Mott, Ken (MNRF)
Subject: RE: Bruce County Natural Gas Pipeline Project EPP

Hi Ken,

Thank you for your review of the EPP and for your voicemail today. As per my follow-up voicemail to you today, I am mostly in the field this summer but can be reached anytime on my cell at 226-229-9598.

To preliminarily address your comments on the letter addressed to Zora Crnojacki dated May 31, 2018:

Natural Heritage Surveys

Stantec Consulting Ltd. (Stantec) will be completing pre-construction surveys currently planned for late July/early August 2018 to identify Butternut Trees, Bat Maternity Roosts, and suitable turtle habitat along the proposed pipeline route. Union Gas will work with Stantec to develop appropriate mitigation measures to avoid potential impacts to identified Butternut Trees, Bat Maternity Roosts, and suitable turtle habitat.

Stantec or I will provide you with the results of the pre-construction surveys.

Location and Data Sources

Noted - thank you. I will confirm with Stantec that they did in fact use appropriate County Official Plan.

Species at Risk (SAR)

Noted - thank you. Please also see my response to the Natural Heritage Surveys section for more information.

Water Crossings

Noted – thank you. Union Gas's contingency plan for watercourse crossings in the event that HDD or crossing above the culvert where depth of cover is adequate is the Dam & Pump method, approved by Fisheries and Oceans Canada, which I have attached for your reference.

Please give me a call on my cell phone listed above (and below) anytime to discuss further.

Thanks for your time.

Evan Tomek, BES

Environmental Planner on behalf of Union Gas Limited | An Enbridge Company 745 Richmond Street | Chatham, ON N7M 5J5 Tel: 519.436.2460 ext 5236904 Cell: 226.229.9598 email: etomek@uniongas.com



From: Mott, Ken (MNRF) [mailto:ken.mott@ontario.ca]
Sent: June-04-18 4:00 PM
To: Zora.Crnojacki@ontarioenergyboard.ca
Cc: Evan Tomek
Subject: [External] Bruce County Natural Gas Pipeline Project EPP

Ms. Zora Crnojacki; Please find attached MNRF's comments regarding Union Gas's proposed natural gas pipeline project in Bruce County.

We would like to work with Union Gas to resolve the issues identified and are available to discuss further.

Please contact me at the number below.

Regards Ken Mott

Ken Mott

District Planner | Midhurst District | Ministry of Natural Resources and Forestry | Bruce, Grey, Simcoe and Dufferin Counties (705) 725-7546 |(705) 725-7584 |<u>ken.mott@ontario.ca</u> |

From: Mott, Ken (MNRF)
Sent: May-31-18 3:53 PM
To: 'Zora.Crnojacki@ontarioenergyboard.ca' <Zora.Crnojacki@ontarioenergyboard.ca>
Cc: 'Evan Tomek' <ETomek@uniongas.com>
Subject: RE: Saugeen First Nation Natural Gas Pipeline Project EPP
Importance: High

Ms. Zora Crnojacki;

Please be advised that the Ministry of Natural Resources and Forestry is finalizing our comments on Union Gas's proposed natural gas pipeline project in Bruce County and will be submitting them to your attention tomorrow.

If you have any questions or concerns please contact me at the number and email address below.

Regards, Ken Mott

Ken Mott

Filed: 2019-10-17, EB-2019-0187, Exhibit B, Tab 2, Schedule 12, Page 34 of 58

District Planner | Midhurst District | Ministry of Natural Resources and Forestry | Bruce, Grey, Simcoe and Dufferin Counties (705) 725-7546 |(705) 725-7584 |ken.mott@ontario.ca |

From: Evan Tomek [mailto:ETomek@uniongas.com]
Sent: April-24-18 11:08 AM
To: Mott, Ken (MNRF) <<u>ken.mott@ontario.ca</u>>
Subject: RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Hi Ken,

Thanks for chatting with me about the project.

If you have any questions about the project, the Environmental Protection Plan and/or the Natural Heritage Study, please feel free to contact me at either of my phone numbers below or by email.

Thank you for your time.

Evan Tomek, BES

Environmental Planner on behalf of Union Gas Limited | An Enbridge Company 745 Richmond Street | Chatham, ON N7M 5J5 Tel: 519.436.2460 ext 5236904 Cell: 226.229.9598 email: etomek@uniongas.com



From: Mott, Ken (MNRF) [mailto:ken.mott@ontario.ca]
Sent: April-24-18 10:46 AM
To: Shelley Bechard
Cc: Evan Tomek
Subject: [External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Thanks for the help with this Shelley - much appreciated.

Evan - can I ask you to give me a call on this project, at the phone number below, when you have a moment?

Thanks Ken Mott

Ken Mott

District Planner | Midhurst District | Ministry of Natural Resources and Forestry | Bruce, Grey, Simcoe and Dufferin Counties (705) 725-7546 |(705) 725-7584 |ken.mott@ontario.ca |

From: Shelley Bechard [mailto:sbechard@uniongas.com] Sent: April-24-18 10:10 AM To: Mott, Ken (MNRF) Cc: Evan Tomek Subject: RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Hi Ken,

Evan Tomek who I copied on this email is the correct person to answer questions concerning the EPP for Saugeen.

Thank you!

Shelley Bechard Administrative Analyst, Regulatory Projects Union Gas Limited | An Enbridge Company 50 Keil Drive, Chatham, ON N7M 5M1 Tel: 519-436-4600 x5002075 | Cell: 519-365-7788 Email: <u>sbechard@uniongas.com</u> | <u>uniongas.com</u>

From: Mott, Ken (MNRF) [mailto:ken.mott@ontario.ca]
Sent: April-24-18 9:28 AM
To: Shelley Bechard
Subject: [External] FW: Saugeen First Nation Natural Gas Pipeline Project EPP

Hi Shelley;

Our office was circulated the EPP for the project below and I wanted to contact you to find out more about the project.

Unfortunately the extension number in your signature block did not work.

Can you please contact me at the number below or provide the contact info for someone else who might be able to answer questions on this project?

Thanks for your help Ken Mott

Ken Mott

District Planner | Midhurst District | Ministry of Natural Resources and Forestry | Bruce, Grey, Simcoe and Dufferin Counties (705) 725-7546 |(705) 725-7584 |ken.mott@ontario.ca |

From: Shelley Bechard <<u>sbechard@uniongas.com</u>> Date: Tuesday, Apr 17, 2018, 4:33 PM To: Renwick, Sally (MNRF) <<u>sally.renwick@ontario.ca</u>> Cc: Crnojacki, Zora <<u>zora.crnojacki@ontarioenergyboard.ca</u>>, Carey, Shawn (MNRF) <<u>shawn.carey@ontario.ca</u>>, Evan Tomek <<u>ETomek@uniongas.com</u>> Subject: Saugeen First Nation Natural Gas Pipeline Project EPP

Good Afternoon,

An Environmental Protection Plan (EPP) for the above mentioned project is attached for your review.

Thanks,

Shelley Bechard Administrative Analyst, Regulatory Projects Union Gas Limited | An Enbridge Company 50 Keil Drive, Chatham, ON N7M 5M1 Tel: 519-436-4600 x5002075 | Cell: 519-365-7788 Email: <u>sbechard@uniongas.com</u> | <u>uniongas.com</u>

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Ministry of Natural Resources and Forestry Midhurst District 2284 Nursery Road Midhurst, Ontario L9X 1N8 Ministère des Richesses naturelles et des Forêts Telephone: (705) 725-7500 Facsimile: (705) 725-7584



May 31, 2018

"By Email Only"

Ms. Zora Crnojacki, Coordinator, Ontario Pipeline Coordination Committee, Ontario Energy Board, 2300 Yonge St. 26th Floor, Suite 2601, Toronto Ontario M4P 1E4

Dear Ms. Crnojacki:

SUBJECT: Union Gas Limited Saugeen First Nation Natural Gas Pipeline Project

Please be advised that staff of the Ministry of Natural Resources and Forestry (MNRF) have completed a review of the background material for the proposed pipeline project noted above from a natural heritage and Species at Risk perspective. In order to do so MNRF staff have reviewed the following documents which were circulated by Union Gas:

- Natural Gas Pipeline Community Expansion Project Natural Heritage Study: Saugeen First Nation dated March 12, 2018 by Stantec.
- Saugeen First Nation Natural Gas Pipeline Project; Environmental Protection Plan dated March 2018 by Union Gas.

Based on our review of the above documents MNRF provides the following comments for consideration:

Natural Heritage Surveys

It appears that there have been limited natural heritage surveys conducted to date. The proponent indicates that additional surveys will be done prior to the construction of the pipeline. As such, the two documents listed above address impacts to natural heritage features in a generalized way. Specific locations for vegetation removal, tree removal, trenching in watercourses have not yet been identified. Mitigation to these features have been proposed to address different scenarios but MNRF cannot fully comment on potential impacts until such time as more detailed surveys take place.

Location and Data Sources

In Section 2.1.3 of the Natural Heritage Study entitled "Wildlife Habitat - Significant Wildlife Habitat" we note that the text has the following citation *"Based on the County of*

Huron Official Plan (2015) mapping, no significant wildlife habitat features are located along the pipeline route"

Please be advised that this project is not located in Huron County, the entire
proposed route is located in Bruce County so please ensure that the assessment is
based on a review using relevant mapping and the appropriate County Official Plan.

Species At Risk (SAR)

MNRF notes that a comprehensive list of SAR species is included in the document however, no surveys have been completed for SAR species. The proponent offers the following explanation; *"Although potential habitat for SAR is present, it is not anticipated that the preferred route alignment traverses any protected or sensitive habitat for SAR as it is located within an existing road allowance that is periodically disturbed for maintenance."*

MNRF offers the following guidance.

- If potential SAR habitat is present, then care must be taken to ensure that there are no SAR species using this habitat. If any SAR species are encountered, please contact the Owen Sound office of the MNRF for further advice.
- If trees are to be removed during pipeline construction, then in addition to ensuring there are no nesting birds, bat maternity roost surveys must be completed at the appropriate time. If roosts are identified, please contact MNRF for further advice.

Water Crossings

MNRF notes that section 3.4 of the Environmental Protection Plan indicates that "watercourses identified as supporting fish that are part of or support a CRA fishery will be crossed using HDD methods or above the existing culvert where depth of cover is adequate. Therefore, no in-water work will be required." Based on this information, no LRIA approval will be required from MNRF where there is no disturbance to the bed or banks of a river channel and within the jurisdiction of a conservation authority. MNRF recommends that Union Gas develop a contingency plan to be in place in the case of disturbance affecting the water bodies being crossed.

Thank you for the opportunity to comment on the proposed pipeline project. If you have any questions with respect to these comments please contact me at (705) 725-7546.

Yours truly,

In Mat

Ken Mott District Planner, Midhurst District 705-725-7546 Ken.Mott@ontario.ca

Cc: Evan Tomek, Union Gas Limited

From: Sent: To: Cc: Subject: Evan Tomek April-30-18 1:43 PM 'Grace, Patrick (IO)' Crnojacki, Zora; Shelley Bechard RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Thank you for your review/comment on the EPP Patrick – it is much appreciated.

Regards,

Evan Tomek, BES

Environmental Planner on behalf of Union Gas Limited | An Enbridge Company 745 Richmond Street | Chatham, ON N7M 5J5 Tel: 519.436.2460 ext 5236904 Cell: 226.229.9598 email: <u>etomek@uniongas.com</u>



From: Grace, Patrick (IO) [mailto:Patrick.Grace@infrastructureontario.ca]
Sent: April-30-18 1:32 PM
To: Shelley Bechard
Cc: Crnojacki, Zora; Evan Tomek
Subject: [External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Shelly Since this Union Gas project is proposed to be located within the road / utility right of way I have no comments

Patrick Grace

From: Shelley Bechard [mailto:sbechard@uniongas.com]
Sent: Tuesday, April 17, 2018 4:29 PM
To: Grace, Patrick (IO) <<u>Patrick.Grace@infrastructureontario.ca</u>>
Cc: Crnojacki, Zora <<u>zora.crnojacki@ontarioenergyboard.ca</u>>; Evan Tomek <<u>ETomek@uniongas.com</u>>
Subject: Saugeen First Nation Natural Gas Pipeline Project EPP

Good Afternoon,

An Environmental Protection Plan (EPP) for the above mentioned project is attached for your review.

Thanks,

Shelley Bechard Administrative Analyst, Regulatory Projects Union Gas Limited | An Enbridge Company 50 Keil Drive, Chatham, ON N7M 5M1 Tel: 519-436-4600 x5002075 | Cell: 519-365-7788 Email: <u>sbechard@uniongas.com</u> | <u>uniongas.com</u>

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From: Sent: To: Subject: Attachments: Evan Tomek April-03-19 1:20 PM 'Erik Downing' RE: SVCA Comment - Saugeen First Nation Natural Gas Pipeline 160961225_mit_SaugeenFN_Fig01_Natural_Heritage_Mitigation (2).pdf

Hi Erik,

Hope you are well.

Just reaching out to you to provide an update on the Saugeen First Nation project we discussed last year. The project was put on hold but we've been given the green light to proceed working on it again. Construction is now tentatively planned for 2020.

Now that I'm looking over my notes, I promised you a copy of the mitigation mapping Stantec completed (once it was completed) and I have attached it for you now. This document will be used in the field during construction to help direct our environmental mitigation and protection measures.

We (now Enbridge) of course will be applying for the necessary permits prior to construction.

Thanks and please let me know if you have any questions.

Evan Tomek, BES Environmental Planner on behalf of Enbridge Gas Inc. 745 Richmond Street | Chatham, ON N7M 5J5 Tel: 519.436.2460 ext 5236904 Cell: 226.229.9598 email: etomek@uniongas.com

From: Evan Tomek Sent: July-23-18 5:42 PM To: Erik Downing Subject: RE: SVCA Comment - Saugeen First Nation Natural Gas Pipeline

Hi Erik,

Here is a stand-alone copy of the Natural Heritage Study completed by Stantec. Once they have completed the site visit and associated mitigation mapping, I will forward you a copy.

Thanks,

Evan Tomek, BES Environmental Planner on behalf of Union Gas Limited | An Enbridge Company 745 Richmond Street | Chatham, ON N7M 5J5 Tel: 519.436.2460 ext 5236904 Cell: 226.229.9598 email: etomek@uniongas.com



From: Erik Downing [mailto:E.Downing@SVCA.ON.CA] Sent: July-13-18 9:17 AM To: Evan Tomek Subject: [External] Re: SVCA Comment - Saugeen First Nation Natural Gas Pipeline

Greetings Evan,

The Stantec Report will likely be of interest to the SVCA in our review of the proposal. Please forward a digital copy if possible to me.

Thanks,

Erik Downing Manager, Environmental Planning and Regulations Saugeen Conservation 1078 Bruce Road 12, P.O. Box 150 Formosa, ON NOG 1W0

From: Evan Tomek <<u>ETomek@uniongas.com</u>>
Sent: Wednesday, July 11, 2018 8:27 PM
To: Erik Downing
Cc: Luke Charbonneau (890230); Mike Smith (890510); Mark Davis (890540)
Subject: RE: SVCA Comment - Saugeen First Nation Natural Gas Pipeline

Hi Erik,

Please see the attached letter for responses to your comments regarding Union Gas Limited's proposed Saugeen First Nation Natural Gas Pipeline Project.

Thank you for your time.

Evan Tomek, BES

Environmental Planner on behalf of Union Gas Limited | An Enbridge Company 745 Richmond Street | Chatham, ON N7M 5J5



Tel: 519.436.2460 ext 5236904 Cell: 226.229.9598 email: <u>etomek@uniongas.com</u>

From: Erik Downing [mailto:E.Downing@SVCA.ON.CA]
Sent: May-31-18 11:23 AM
To: Evan Tomek
Cc: Luke Charbonneau (890230); Mike Smith (890510); Mark Davis (890540)
Subject: [External] SVCA Comment - Saugeen First Nation Natural Gas Pipeline

Greetings,

Please find SVCA comment attached.

Regards,

Erik Downing Manager, Environmental Planning and Regulations Saugeen Conservation 1078 Bruce Road 12, P.O. Box 150 Formosa, ON NOG 1WO

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1078 Bruce Road 12, P.O. Box 150, Formosa ON Canada NOG 1W0 Tel 519-367-3040, Fax 519-367-3041, publicinfo@svca.on.ca, www.svca.on.ca

May 31, 2018

Evan Tomek Environmental Planner Union Gas Limited P.O. Box 2001, 50 Kell Drive North, Chatham, ON N7M 5M1

Dear Mr. Tomek :

RE: Saugeen First Nation Natural Gas Pipeline Project Geographic Townships of Amabel, Saugeen, Southampton, and Arran Town of South Bruce Peninsula and Municipality of Arran-Elderslie

Saugeen Valley Conservation Authority (SVCA) staff are interested to receive additional information and reports, as they are made available, associated with this project throughout the course of the Study. The proposal is acceptable to the SVCA and the Environmental Protection Plan dated March 2018 is generally acceptable to SVCA staff. Watercourse or drilling operations under watercourses would be subject to SVCA in water works timing windows, if subject to SVCA Regulations (June 15 to September 15). Northeastern Project Areas are not within the jurisdiction of the SVCA and the Grey Sauble Conservation Authority should be contacted for comment in that area.

A permit from the SVCA may be (potential Reserve and highway exemptions aside) required prior to the commencement of actual site alterations or development associated with this type of proposal in accordance with Ontario Regulation 169/06, as amended. The SVCA's website generally indicates our areas of interest associated with our Regulation in the subject area.

We trust these comments are helpful. An Environmental Assessment Review fee of either \$370 or \$670 will be applicable to the proposed depending on the complexity of the reports and proposal. Should questions arise, please do not hesitate to contact this office.

Yours Sincerely,

Erik Downing Manager, Environmental Planning & Regulations Saugeen Conservation

ED/ c.c: Luke Charbonneau, Authority Member, SVCA (via email) Mike Smith, Authority Member, SVCA (via email) Mark Davis, Authority Member, SVCA (via email)



Watershed Member Municipalities

Municipality of Arran-Elderslie, Municipality of Brockton, Township of Chatsworth, Municipality of Grey Highlands, Town of Hanover, Township of Howick, Municipality of Morris-Turnberry, Municipality of South Bruce, Township of Huron-Kinloss, Municipality of Kincardine, Town of Minto, Township of Wellington North, Town of Saugeen Shores, Township of Southgate, Municipality of West Grey



July 11, 2018 (EMAIL ONLY)

Mr. Erik Downing Manager, Environmental Planning & Regulations Saugeen Valley Conservation Authority 1078 Bruce Rd. #12, Box 150 Formosa, ON N0G 1W0

Re: Union Gas Limited Saugeen First Nation Natural Gas Pipeline Project

Dear Mr. Downing,

Thank you for your review of and comment on the Saugeen First Nation Natural Gas Pipeline Project Environmental Protection Plan prepared by Union Gas Limited (Union Gas) and the Natural Heritage Study prepared by Stantec Consulting Ltd. (Stantec).

At this time, no new reports or studies have been completed for this project. Union Gas has retained the following consultants to complete the studies listed below:

- Timmins Martelle Heritage Consultants Inc.
 - Archaeological Assessment to be completed in summer 2018
 - Deliverable: Report
- Aecom
 - Cultural Heritage Study to be completed in fall 2018
 - o Deliverable: Report
- Stantec
 - Natural Heritage Field Surveys to be completed in summer 2018
 - Deliverable: Mitigation mapping that will visually show areas where additional mitigation is required

Should you be interesting in receiving copies of any of these reports or mitigation mapping I will be happy to forward copies upon completion.

Thank you for identifying the in water works timing window of June 15 – September 15 for watercourse crossings subject to SVCA regulations. Union Gas will adhere to this timing window for any watercourse or drilling operations.

Union Gas has also been in contact with the Grey Sauble Conservation Authority regarding the project and will apply for the necessary permits as required.

Once the detailed design phase of the project has been completed, Union Gas will identify the areas regulated by the Saugeen Valley Conservation Authority along the proposed route and will apply for the necessary permits.

Thank you again for your time. If you have any questions, please contact me at 1-519-436-2460 x 5236904 or by email at <u>ETomek@uniongas.com</u>.

Yours very truly,

292

Evan Tomek Environmental Planner Union Gas Limited

cc: Luke Charbonneau, Authority Member, SVCA (via email) Mike Smith, Authority Member, SVCA (via email) Mark Davis, Authority Member, SVCA (via email)

From: Sent: To: Subject: Evan Tomek May-30-18 4:00 PM 'Di Fabio, Tony (MTO)' RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Hi Tony,

Thank you for your review of the EPP and comments on the project. I trust that the project team will continue to work with MTO to obtain the necessary permits prior to construction.

Thanks again,

Evan Tomek, BES

Environmental Planner on behalf of Union Gas Limited | An Enbridge Company 745 Richmond Street | Chatham, ON N7M 5J5 Tel: 519.436.2460 ext 5236904 Cell: 226.229.9598 email: <u>etomek@uniongas.com</u>



From: Di Fabio, Tony (MTO) [mailto:Tony.DiFabio@ontario.ca]
Sent: May-30-18 3:30 PM
To: Crnojacki, Zora
Cc: Evan Tomek; Shelley Bechard; Walsh, Ashley (MTO)
Subject: [External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP

Zora,

The Ministry of Transportation has reviewed the Environmental Protection Plan (EPP) and although we have no specific concerns with the EPP itself, our regional office are currently in discussions with the proponents (Union Gas) regarding the proposed work. Specifically, the discussions have been focused on the proposed installations on or near the Highway 21 right-of-way.

Although we do not object in principle to the proposal; MTO permit approvals will be contingent on determining/approving the final/optimal location and depth of the proposed plant, that will not create any conflicts or encumbrances to the highway now or in the future.

Thank you

Tony Di Fabio Team Lead Highway Corridor Management Section, Head Office Ministry of Transportation Tel. (905) 704-2656



From: Shelley Bechard [mailto:sbechard@uniongas.com]
Sent: April-17-18 4:36 PM
To: Di Fabio, Tony (MTO)
Cc: Crnojacki, Zora; Evan Tomek
Subject: Saugeen First Nation Natural Gas Pipeline Project EPP

Good Afternoon,

An Environmental Protection Plan (EPP) for the above mentioned project is attached for your review.

Thanks,

Shelley Bechard Administrative Analyst, Regulatory Projects Union Gas Limited | An Enbridge Company 50 Keil Drive, Chatham, ON N7M 5M1 Tel: 519-436-4600 x5002075 | Cell: 519-365-7788 Email: <u>sbechard@uniongas.com</u> | <u>uniongas.com</u>

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From:	Kourosh Manouchehri <kmanouchehri@tssa.org></kmanouchehri@tssa.org>	
Sent:	May-02-19 8:04 AM	
То:	Amry Al-Amry	
Cc:	Crnojacki, Zora; Evan Tomek; Shelley Bechard; Bill Wachsmuth; Kathy Lyons	
Subject:	[External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP & Application for a Consultation	

Hi Amry,

Thank you for the update. Please keep me in loop as you mentioned below for the progress of these projects. For Chippewa project, please advise me when you know the start date of the project. I will visit the site sometime after start of the construction.

Regards,



Kourosh Manouchehri, P.Eng., PMP | Engineer Fuels Safety 345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel: +1-416-734-3539 | | Fax: +1-416-231-7525 | E-Mail: kmanouchehri@tssa.org www.tssa.org

From: Amry Al-Amry <AAlAmry@uniongas.com>

X

Sent: May 1, 2019 16:36

To: Kourosh Manouchehri < KManouchehri@tssa.org>

Cc: Crnojacki, Zora <zora.crnojacki@ontarioenergyboard.ca>; Evan Tomek <ETomek@uniongas.com>; Shelley Bechard <sbechard@uniongas.com>; Bill Wachsmuth <bwachsmuth@uniongas.com>; Kathy Lyons <KLyons@uniongas.com> **Subject:** RE: Saugeen First Nation Natural Gas Pipeline Project EPP & Application for a Consultation

Hi Kourosh,

It was nice catching up with you on the phone, per our phone conversation;

For Saugeen and Northshore & Peninsula Rd we are looking at filing with the OEB this year for a 2020 construct.

For Chippewa of the Thames FN, we have filed the project with the OEB last week for a 2019 construct.

I will keep you posted and in the loop when we are in position to file with OEB for Saugeen and Northshore & Peninsula Rd projects

Thank you,

ahmed al- amry P.Eng., PMP

Supervisor, Community Expansion Capital Development & Delivery Cell: 226 229 9542

From: Kourosh Manouchehri [mailto:KManouchehri@tssa.org]
Sent: April-16-19 11:24 AM
To: George Leferman
Cc: Crnojacki, Zora; Evan Tomek; Shelley Bechard; Bill Wachsmuth; Amry Al-Amry; Kathy Lyons
Subject: [External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP & Application for a Consultation

Hi George,

Thank you for the update. I will follow up with Amry in future.

Regards,



fy X

Kourosh Manouchehri, P.Eng., PMP | Engineer Fuels Safety 345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel: +1-416-734-3539 | Fax: +1-416-231-7525 | E-Mail: kmanouchehri@tssa.org www.tssa.org

From: George Leferman <<u>GJLeferman@uniongas.com</u>> Sent: April 16, 2019 10:32 To: Kourosh Manouchehri <<u>KManouchehri@tssa.org</u>> Cc: Crnojacki, Zora <<u>zora.crnojacki@ontarioenergyboard.ca</u>>; Evan Tomek <<u>ETomek@uniongas.com</u>>; Shelley Bechard <<u>sbechard@uniongas.com</u>>; Bill Wachsmuth <<u>bwachsmuth@uniongas.com</u>>; Amry Al-Amry <<u>AAlAmry@uniongas.com</u>>; Kathy Lyons <<u>KLyons@uniongas.com</u>>; Amry Al-Amry Subject: RE: Saugeen First Nation Natural Gas Pipeline Project EPP & Application for a Consultation

Hi Kourosh – As an FYI, I have since moved positions within the company. Amry will be able to assist you going forward, and should be able to provide you an update on this particular project's status, as well as the other two that were submitted around the same timeframe.

Rest assured that having you out to site for one of these projects is included in our project plan, so even though I'm no longer with this particular group, your involvement will not be missed.

Thanks,

George Leferman, P.Eng.

TEL: 519-436-4600 ext 5002928| CELL: 226-229-0960

From: Kourosh Manouchehri [mailto:KManouchehri@tssa.org]
Sent: Tuesday, April 16, 2019 9:49 AM
To: George Leferman
Cc: Crnojacki, Zora; Evan Tomek; Shelley Bechard; Bill Wachsmuth
Subject: [External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP & Application for a Consultation

Hi George,

Could you please provide update on the status of this project?

Regards,



Kourosh Manouchehri, P.Eng., PMP | Engineer Fuels Safety

345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel: +1-416-734-3539 | Fax: +1-416-231-7525 | E-Mail: <u>kmanouchehri@tssa.org</u> www.tssa.org

From: Kourosh Manouchehri
Sent: August 1, 2018 08:55
To: 'George Leferman' <<u>GJLeferman@uniongas.com</u>>
Cc: Crnojacki, Zora <<u>zora.crnojacki@ontarioenergyboard.ca</u>>; Evan Tomek <<u>ETomek@uniongas.com</u>>; Shelley Bechard
<<u>sbechard@uniongas.com</u>>; Bill Wachsmuth <<u>bwachsmuth@uniongas.com</u>>
Subject: RE: Saugeen First Nation Natural Gas Pipeline Project EPP & Application for a Consultation

Hi George,

Thank you for the update.

Please inform me about the time\date in advance as you suggested below.

Looking forward to meeting you next year.

Regards,



Kourosh Manouchehri, P.Eng., PMP | Engineer

Fuels Safety 345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel: +1-416-734-3539 | Fax: +1-416-231-7525 | E-Mail: <u>kmanouchehri@tssa.org</u> www.tssa.org From: George Leferman [mailto:GJLeferman@uniongas.com] Sent: July 24, 2018 13:34 To: Kourosh Manouchehri <<u>KManouchehri@tssa.org</u>> Cc: Crnojacki, Zora <<u>zora.crnojacki@ontarioenergyboard.ca</u>>; Evan Tomek <<u>ETomek@uniongas.com</u>>; Shelley Bechard <<u>sbechard@uniongas.com</u>>; Bill Wachsmuth <<u>bwachsmuth@uniongas.com</u>>

Subject: RE: Saugeen First Nation Natural Gas Pipeline Project EPP & Application for a Consultation

Hi Kourosh,

Thank you so much for all three reviews. My apologies for the late reply...my email response time is lagging at the moment as I am spending a lot of time on site during this construction season.

Should these projects proceed in 2019 as anticipated, I will definitely ensure that you are informed of the timing for one of the projects so you can witness the pressure test as requested. So you receive the most current and updated version of the pressure test procedure, I will send that over to you closer to the start date of the project next year.

In the meantime, if you have any questions or concerns, please don't hesitate to contact me.

Thank you again, and I look forward to meeting you on site next year.

Kind Regards,

George Leferman, P.Eng. Tel: 519-436-4600 x 5002928 | Cell: 226-229-0960

From: Kourosh Manouchehri [mailto:KManouchehri@tssa.org] Sent: Tuesday, July 10, 2018 11:00 AM To: George Leferman Cc: Crnojacki, Zora; Evan Tomek; Shelley Bechard Subject: [External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP & Application for a Consultation

Hi George,

Please see my review letter related to this project.

This project and the two other submitted at the same time are similar in nature. I like to witness the pressure tests for both steel and PE pipes for one of these three projects. Please submit the "pressure test procedure" for review. This document might be developed by the selected contractor.

If you have any question, please contact me.

Regards,



Kourosh Manouchehri, P.Eng., PMP | Engineer **Fuels Safety** 345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel: +1-416-734-3539 | Fax: +1-416-231-7525 | E-Mail: kmanouchehri@tssa.org www.tssa.org XX

From: George Leferman [mailto:GJLeferman@uniongas.com]
Sent: June 28, 2018 09:06
To: Kourosh Manouchehri <<u>KManouchehri@tssa.org</u>>
Cc: Crnojacki, Zora <<u>zora.crnojacki@ontarioenergyboard.ca</u>>; Evan Tomek <<u>ETomek@uniongas.com</u>>; Shelley Bechard
Subject: RE: Saugeen First Nation Natural Gas Pipeline Project EPP & Application for a Consultation

Hi Kourosh,

I can confirm this is a distribution project, designed to Clause 12 of CSA Z662-15.

Please find attached our spec sheet containing all the technical information.

Should you require any further details, please let me know.

Thanks,

George Leferman, P.Eng. Advisor, Planning & Design – Community Expansion

Union Gas Limited | An Enbridge Company TEL: 519-436-4600 ext 5002928 | CELL: 226-229-0960 | gjleferman@uniongas.com 50 Keil Drive North, Chatham, ON N7M 5J5 uniongas.com | Canada's Top 100 Employer | Facebook | Twitter | LinkedIn | YouTube

Integrity. Safety. Respect.

From: Kourosh Manouchehri [mailto:KManouchehri@tssa.org]
Sent: Tuesday, June 26, 2018 11:33 AM
To: George Leferman
Cc: Crnojacki, Zora; Evan Tomek; Shelley Bechard
Subject: [External] RE: Saugeen First Nation Natural Gas Pipeline Project EPP & Application for a Consultation

Hi George,

I reviewed the submitted environmental report. Please confirm that this project is distribution expansion and clause 12 of CSA Z662 will be followed.

Could you please provide project technical information including the maximum operating pressure, material and certification of the PE pipes and fittings and the propose pressure tests?

I will continue with review of this project upon receipt the above requested information.

Regards,



Kourosh Manouchehri, P.Eng., PMP | Engineer Fuels Safety 345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel: +1-416-734-3539 | Fax: +1-416-231-7525 | E-Mail: <u>kmanouchehri@tssa.org</u> www.tssa.org

From: Shelley Bechard [mailto:sbechard@uniongas.com]
Sent: April 17, 2018 16:40
To: Kourosh Manouchehri <<u>KManouchehri@tssa.org</u>>
Cc: Crnojacki, Zora <<u>zora.crnojacki@ontarioenergyboard.ca</u>>; Evan Tomek <<u>ETomek@uniongas.com</u>>
Subject: Saugeen First Nation Natural Gas Pipeline Project EPP & Application for a Consultation

Good Afternoon,

An Environmental Protection Plan (EPP) and TSSA Application for the above mentioned project is attached for your review.

Thanks,

Shelley Bechard Administrative Analyst, Regulatory Projects Union Gas Limited | An Enbridge Company 50 Keil Drive, Chatham, ON N7M 5M1 Tel: 519-436-4600 x5002075 | Cell: 519-365-7788 Email: <u>sbechard@uniongas.com</u> | <u>uniongas.com</u>

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SAUGEEN FIRST NATION DESIGN AND PIPE SPECIFICATIONS STEEL AND POLYETHYLENE PIPING

Steel Design Specifications

Design Factor		0.8
Design Class Location		N/A - Distribution
Design Location Factor		0.375
Joint Factor		1.00
Design Temperature		M5C (below grade)
		M30C (above-grade)
Design Pressure	- 1	4960 kPa
Maximum Operating Pressure		4960 kPa
Test Medium		Air, Nitrogen, or Water
Minimum Test Pressure		6950 kPa
Minimum Depth of Cover (General)		0.6 m
Minimum Depth of Cover (Road Crossings)		0.6 m
Minimum Depth of Cover (Water Crossings)		1.2 m
Design Pressure Maximum Operating Pressure Test Medium Minimum Test Pressure Minimum Depth of Cover (General) Minimum Depth of Cover (Road Crossings) Minimum Depth of Cover (Water Crossings)		M30C (above-grade) 4960 kPa 4960 kPa Air, Nitrogen, or Water 6950 kPa 0.6 m 0.6 m 1.2 m

Steel Pipe Specifications

NPS 4			
- 114.3 mm			
- 6.0 mm			
- 290 MPa			
- Electric Resistance Weld			
-C.S.A. Z245.1-14			
- Cat I			
- Yellow Jacket			
- 16.3%			

Polyethylene Pipe Design Specifications

-	0.40
-	550 kPa
-	550 kPa
39 <u>00</u>	Air or Nitrogen
-	770 kPa
-	0.6 m
-	0.6 m
-	1.2 m

Polyethylene Pipe Specifications

Size	- NPS 4
Outside Diameter	- 114.3 mm
SDR	- 11
Minimum Grade	- PE2406
Description	-C.S.A. B137.4-17
Size	- NPS 2
Outside Diameter	- 60.3 mm
SDR	- 11
Minimum Grade	- PE2406
Description	-C.S.A. B137.4-17



345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel. 416 734 3300 Fax 416 231 1626 Toll Free 1 877 682 8772

www.tssa.org

July 10, 2018

George Leferman, P.Eng. Advisor, Planning & Design – Community Expansion 50 Keil Drive North, Chatham, ON N7M 5J5

SR# 2335122

Re: Saugeen First Nation Natural Gas Pipeline Project

Dear Mr. George Leferman,

This is in response to your submitted Union Gas Pipeline Project dated June 26, 2018 about the Saugeen First Nation Natural Gas Pipeline Project.

I reviewed submitted technical information of the project which were in compliance to the requirements of applicable standard CSA Z662-15 and of Oil and Gas Code Adoption Document, FS-238-18. This project might subject to audit and site visit by TSSA inspector.

Should you have any questions, please contact me at 416.734.3539 or by e-mail at kmanouchehri@tssa.org. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

havad Mahli

Kourosh Manouchehri, P.Eng., Fuels Safety Engineer Tel. : (416) 734-3539 Fax : (416) 231-7525

 c. Ms. Zora Crnojacki Chairperson, OPCC Ontario Energy Board P.O. Box 2319 2300 Younger Street, 27th. Floor Toronto, ON M4P 1E

Putting Public Safety First 📟
Indigenous Consultation Report Union Gas Saugeen First Nation Project

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Indigenous Consultation Report Union Gas Saugeen First Nation

1. **Project Description**

Union Gas is planning to bring natural gas service to Saugeen First Nation. The Project consists of approximately 16.5km of 2" and 4" polyethylene distribution pipeline to service the community. The proposed pipeline will commence at the Union Gas existing pipeline on Bruce Road 17 and will run north to Saugeen First Nation. One ancillary facility will be required for the project. Please see Schedule 4-A for a map of the general area.

A preferred route for the proposed pipeline has been determined and can be found in the Environmental Report which was sent to Shereen Smithanik at the Ministry of Energy ("MOE") on April 17, 2018 as part of the Ontario Pipeline Coordinating Committee review for this project.

2. First Nation and Métis Communities Consulted

As directed under the *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 2016,* Union Gas was delegated the procedural aspects of the consultation from the Ministry of Energy (MOE). The follow communities were listed by the MOE in the delegation letter (Schedule 4-C):

Saugeen First Nation	Doran Ritchie, Land Use Planning Coordinator, Saugeen
	Ojibway Nation (Saugeen Ojibway Nation)
Chippewas of Naswash Unceded First Nation	Doran Ritchie, Land Use Planning Coordinator, Saugeen
	Ojibway Nation (Saugeen Ojibway Nation)
Historic Saugeen Métis	George Govier, Coordinator, Lands Resources and
	Consultation
	Carolyn Boone, Assistant coordinator, Lands Resources
	and Consultation
	Patsy McArthur, Secretary/Treasurer

<u>way Natio</u> Activity	Ę	Issues raises	Outcome	Doc
ALLINILY			Outcome	Location
Email to Chief Lester Anoqu	lot	Ken McCorkle advised the Chief that an application for grant funding was submitted to the Ontario Natural Gas Grant Program for the community.	Email acknowledge by Chief	Pg. 22
Email to Chief Lester Anoqu	ot	Ken McCorkle requested a meeting to provide a project update.		Pg. 22
Email to Doran Ritchie, Lanc Coordinator for SON	l Use Planning	Ken McCorkle advised Doran that the project is currently on hold pending notification from the provincial government on if the community was successful in getting the grant money. Asked if SON would like to have monitors on site for this project and to contact him to discuss further.		Pg. 23
Telephone call with Doran Rit	chie	Doran Ritchie had a question about who was doing the Environmental Assessment work for the Saugeen First Nation expansion project.	Ken McCorkle provided Doran with an email addressing all those that will be participating in the environmental assessment work on the project.	Pg. 23
Telephone call with Doran Ritc Planning Coordinator for SON	chie – Land Use	Doran stated that Saugeen First Nation has given him the responsibility of the oversite of the project. Doran asked about route selection, the archeological survey and components of the Heritage Cultural work.		
		To ensure we keep SON informed and answer these questions, a meeting will be set up with those involved in the Archeological and SAR portion of the project along with Union Gas' environmental planner.		
Email conversation with Dorar meeting	Ritchie setting up	Numerous emails exchanged setting up a time to meeting, location, who will attend etc.		Pg. 24
Email from Doran Ritchie		Doran requested that Timmins Martelle attend the meeting on Dec 15. Ken confirmed that they are planning to attend.		Pg. 25
Meeting held on December 1 gas expansion into Saugeen F Attendees:	5 to discuss natural irst Nations	Met in Union Gas Waterloo office on Dec 15 Purpose of the meeting was to provide Doran Richie an opportunity to meet the players involved and to speak with each of them and have his questions addressed.		

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	Ken McCorkle Manager, Indigenous Affairs	Addin Canat and about built structure for the outlike	
	Aaron Chapman Manager, Construction and	aspect. Doran asked if she could speak with someone in his	
	Growth	office to talk about aboriginal perspective on cultural	
	Evan Tomek, Environmental Planner	structures. Agreed to and they will set up with themselves.	
	Doran kicnie, Land Use Planning Coordinator, SON	Doran asked about study area (size) and timelines Evan	
	Matthew Beaudoin, Archaeological Assessment	discussed area and provided map. Also explained timeline and	
	Manager, Timmins Martelle Heritage Consultants	Union would like to start work construction in 2018 however,	
	Sherri Pearce, Project Manager, Timmins	that timeline is subject to OEB approval and might be pushed	
	Martelle Heritage Consultants	to 2019. Doran was satisfied with this.	
	Adria Grant, Senior Archeologist, AECUM	المستعدية المتامع المتقسية معلمية مماستين المعامية المتعالمية المستعدين المنابعة المستعدين المنابعة المستعدين	
		Doran provided examples of potential archeological sites that	
		could be found. He was satisfied that Union had involved him, through Dr. William Eitzgerald from SON to participate in	
		CHICUGEI DI. WIIIIGHI HICEGCIGICI HICHI JOHI JOHI JOHI CO PULICIPAIC III Ctare 10.3 archological accorrenants Ctare 2 hoing completed	
		stage 1&2 archelogical assessments. Stage 2 being completed in Dec 2017 and will forward conjecto Deran when received	
		ווו הבר בחדו מוומ שווו וסושמים נסטופי נס הסומוו שוופון ובכבואבם.	
		Doran asked about construction portion of the project wanting	
		to know the pipe size and lengths. This was explained and a	
		map was provided. Also asked about a copy of Phases 1&2	
		and 3 and they will be forwarded to him	
		Acked shout wetlands in the seas Asron Chanman discussed	
		directional drilling in these areas and the denth of the drilling	
		will be depended on the area. This will be discussed with	
		Doran throughout the process	
		Sherri and Matthew reinforced that they work with Dr.	
		Fitzgerald and when the report is complete, it will be	
		forwarded to Doran at that time.	
Mar 1/18	Email sent to Doran Ritchie	Union Gas sent an email to Doran Ritchie following up on the	Pg. 26
		Dec 2017 meeting to ensure that Doran had any outstanding	
		concerns or required any information	
Mar 5/18	Received email from Doran Ritchie in response to March 1/18 email	Doran had a number of questions/follow ups:	Pg. 27
		1. Suggestion to have additional community meeting and post	
		information on Saugeen FN website about the proposed	
		project.	
		Asked if funding announcement had taken place.	
		3. Would like to review the NH report that was completed in	
		Jan 18	

	No response required. Pg. 27 Schedule A	Ken advised that he was still Pg. 28 working to ensure all questions were answered. Should have response soon.	Email discussion with Chief Pg. 28 Anoquot to confirm the meeting on April 23 at 10am.	1 Telephone call followed with Pg. 30 Doran							Schedule D	
 Would like an update on the Cultural Heritage Study Looking to confirm dates for start of archelogy, confirmation on assessing lines into buildings from main distribution line. Will draft a letter of agreement, including costs for reviev and input from SON. 	Ken McCorkle provided an updated map of the proposed natural gas pipeline expansion map for the reserve.	Requesting a response to his email dated March 5, 2018.	Email requesting a meeting on April 23 with Union Gas personnel to discuss the project now that the announcemer of the funding has been made public.	Ken McCorkle provided responses to Doran's questions post on March 5.	Doran is in agreement with Union Gas setting up community meetings for the Saugeen Expansion project. Union Gas wil work with SON and Saugeen to arrange for appropriate time for meetings.	Doran was pleased that grant announcement made public.	Ken confirmed that Doran has the Natural Heritage report from Stantec and thankful for that.	We are currently waiting for the cultural heritage study and Doran acknowledge not a major issue for him at this point	Sherri Pearce, Timmins Martelle is the contact for the archelogy on this project. Doran knows her very well and w work with her on it.	Doran will attend the meeting set up for April 23 at Saugeer First Nations.	Meeting took place at Saugeen First Nation Band office.	James Whittaker went over presentation for Doran slide by slide. Confirmed construction would start in 2019 with wran
	Email to Chief Anoquot and Doran Ritchie	Email from Doran Ritchie (SON)	Email to Chief Anoquot	Email response to Doran Richie	Telephone call with Doran Richie						Meeting to update on project.	Attendees: Doran Ritchie. SON
	Mar 29/18	Apr 4/18	Apr 4/18	Apr 9/18	Apr 9/18						Apr 23/18	

	Union Gas Bruce Ahrens, New Business Project Coordinator Aaron Chapman, Construction and Growth Mgr Brian Van Biesbrouck, Expansion Construction	Doran asked questions through presentation. Questic size of pipe, depth of construction, cross streams and history and past meeting with Saugeen First Nations.	on about the	
	James Whittaker, Community Expansion Mgr Ken McCorkle, Indigenous Affairs Manager	Lengthy discussion on stream crossings was complete Brian Van answering Doran's questions.	d with	
		Doran acknowledged all materials previously agreed c been received.	on have	
		Doran will speak to the subcontractor for archelogy to when that process will begin. He will want a monitor for that process.	on site	
		Doran took a copy of presentation to send to the Chie speak to the Chief.	ef and will	
		As of this meeting, Doran is happy with information a to move ahead.	nd happy	
		Agreed that a community meeting should be set up fo September.	Jr	
		Will continue to provide updates to Doran as the proj progresses.	ect	
Historic Saug	geen Metis			
Date	Activity	Issues raises	Outcome Do Lo	oc cation
Aug 11/17	Ken spoke with George Govier	Ken confirmed he would be attending the Historic Saugeen Annual Rendezvous on Aug 12, 2017.		
Nov 23/17	Meeting to discuss natural gas expansion to Saugeen First Nation	Meeting to discuss project.		
	Goorge Govier Coordinator Lands Decourses	George stated that no monitors with Historic		
	and Consultation Historic Saugeen Metis	Directed to their website as it has been updated.		
	Carolyn Boone, Assistant coordinator, Lands			
	Resources and Consultation	Asked for a tour of the site for further awareness which I him Gas agreed		
	Patsy McArthur, Secretary/Treasurer			

	Pg. 31	Pg. 32	Pg. 32	Pg. 33
George asked for notification for when the grant is approved and to notify when they go ahead with Stage 2 archelogy Completed EA when completed. George provided Ken with Historic Saugeen Metis Rights and Interests document.	Email summarizing the November 23 meeting and providing the action items taken away. Action Items include: 1) Union will notify you when the Provincial grant money has been announced. This will determine if the project is a go or no go. 2) Union will notify you when Timmins Martelle proceeds with Stage 2 for the Archeological survey. 3) Union will forward a copy of the Environmental Assessment when completed. 4) Union will maintain an electronic log as forwarded by the Historic Saugeen Métis starting with the August 11th email. 5) Union will provide an opportunity for the committee to tour the construction site at an agreed upon time. Tour will include a Union representative with firsthand knowledge of the project.	Acknowledging Union Gas Nov 24 email and agreeing with the action items outlined.	Email provided the Natural Heritage Report for the Saugeen First Nation Community expansion project.	Ken advised George that the Provincial government funding announcement has been made public and that we will be moving forward with the project. Ken will forward the Environmental Assessment to the Historic Métis Nation once complete and will notify them of Stage 2 archelogy.
	Email to George Govier, Patsy McArthur, and Carolyn Boone	Email from George Govier	Email to George Govier, Land and Resources Consultation Coordinator	Email to George Govier
	Nov 24/17	Dec 11/17	Apr 9/18	Apr 11/18

4. <u>Supporting Documents</u>

Schedule A - Detailed Map of Project site



Schedule B – Union Gas letter of notification to Ministry of Energy

From:	Ken McCorkle	Sent:	Mon 03/07/2017 8:54	AM
To:	Bouvier, Anne-Laure (ENERGY)			
Cc:				
Subject:	Summary for the Ministry of Energy (Saugeen First nation)			
🖂 Message	🔀 MOE Project Description - Saugeen FN.PDF			
	😕 1609_UG_CE_Ph3_Projects_Fig01_Background_Data_Review_Saugeen First Natiopdf			
	😕 1609_UG_CE_Ph3_Projects_Fig02_Crown_Land_Saugeen First Nations (2).pdf			
				- Ca
Hello Ann	e-Laure:			
Please fi	nd attached the summary for the Saugeen First Nation Natural Gas Pipe	eline	Project to	
determir	ne the consultation list as per our recent phone call. Union has forward	ed a	detailed map	
as attack	ment number two along with an attachment, number three, that outli	nes t	he crown land.	
I will aw	ait your response for Union to move ahead with the consultation for th	is pro	oject.	
Regards,				
Ken				

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Ken McCorkle

Manager, Indigenous Affairs Union Gas Ltd. Phone: 519-436-4600 Ext.5002243 Cell; 519-365-0584 Toll Free: 877-293-6215 Fax; 519-436-5392 Email: <u>kmccorkle@uniongas.com</u> We can't change the past, but we can influence our future

Union Gas Limited Pipeline Project Saugeen First Nation Natural Gas Pipeline Project – Summary for Ministry of Energy

1. Introduction

This Project Summary Report ("PSR") has been prepared to provide the Ministry of Energy ("MOE") with an overview of the Saugeen First Nation Natural Gas Pipeline Project ("Project") to support the preparation of a contact list of indigenous communities that may have an interest in the Project.

1.1 Project Overview

Union Gas Limited ("Union") has been bringing clean, reliable, and affordable natural gas service for more than a century to over 400 communities across Ontario and as part of its Community Expansion Program, is proposing to bring natural gas service to Saugeen First Nation. The Project consists of approximately 16.5 km of 2" and 4" polyethylene distribution pipelines to service the community. The proposed pipeline will commence at Union's existing pipeline on Bruce Road 17 and will run north to Saugeen First Nation. There is one ancillary facility required for this project. The location of the Project is shown on the attached maps.

The following co-ordinates define proposed start point and end point:

_	Latitude	Longitude
Start	44°26'30.76"N	81°17'32.40"W
End	44°31'07.5"N	81°19'52.3"W

2. Regulatory Requirements and Approvals

Ontario Energy Board ("OEB") review and approval is required before this project can proceed. As part of that application, an Environmental Protection Plan (EPP) will be prepared in accordance with the OEB Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2016). The EPP for the Project will be submitted to the OEB in fall 2017. Construction of the expansion project is planned to begin in spring 2018 with an in service date of fall 2018.

Other permits and authorizations for the project will be determined and may be necessary at the Federal, Provincial and Municipal levels.

3. Environmental Planning Process

The environmental planning process for the Project was initiated in the spring of 2017 by Union, with support to be provided throughout the process by consultant archaeologists, cultural heritage specialists, and biologists. The purpose of the Project is to serve as many residents as possible and therefore the pipeline route will be chosen accordingly. The following provides a general overview of the environmental planning process for the Project:

- Complete an Environmental Protection Plan (EPP)
 - Describe the proposed work necessary for the Project;
 - Describe the procedures that will be followed during construction of the facilities;
 Identify potential environmental impacts and recommend measures to minimize those
 - impacts; and
 Describe the public consultation opportunities.
 - Complete all necessary studies and assessments
 - An Archaeological Assessment will be conducted by a licensed archaeologist in accordance with the Ministry of Tourism, Culture and Sport (MTCS) guidelines to identify known or potential archaeological resources within the Project area and will develop an appropriate mitigation plan if required.
 - A heritage specialist will review the running line for potential cultural heritage landscapes and built heritage resources and will develop an appropriate mitigation plan if required.
 - A certified biologist will review the running line for potential species at risk and determine if any species will be impacted by construction activities and will develop an appropriate mitigation plan if required.
- Obtain all necessary environmental permits and approvals
 - Union will obtain clearance from Saugeen First Nation and the Conservation Authority with jurisdiction on non-First Nation land for any watercourse crossings.
 - Union will work with all other relevant governing agencies (i.e. the Ministry of Natural Resources and Forestry) to obtain any permit and/or approval should it be necessary.

4. Consultation

Public consultation is an important part of the environmental planning process and will include discussions with the Town of Saugeen Shores, Bruce County, Saugeen First Nation, and the First Nations and Métis Nation as identified by MOE.

4.1 Project Notification

Union will meet with the Town of Saugeen Shores, Bruce County, and Saugeen First Nation regarding the Project. Union will also review the project with the Conservation Authority that has jurisdiction on non-First Nation land, and the First Nations and Métis Nation as identified by MOE.

5. Project Activities

Following Union's standard construction practices, Union will install the distribution pipelines in the road/utility right-of-way. Union's standard construction practices include grading the site, digging the trench, installing the welded pipeline in the trench, testing the pipeline, and restoring the area to its original condition.

6. Summary and Conclusion

The purpose of this report is to provide MOE with preliminary information regarding the Project and acquire a list of Indigenous communities that may be interested in providing feedback during the project planning process. Field work and data collection will be undertaken to determine the potential effects of this Project during the construction, and operation phases. Mitigation measures to manage these potential effects will be identified and will include proposed monitoring and contingency plans which will be implemented to ensure effects are minimized.



Schedule C - Letter of Delegation of Authority to Union Gas

Ministry of Energy

77 Grenville Street 6th Floor Toronto ON M7A 2C1 Tel: (416) 314-2599 77 rue Grenville ⁶étage Toronto ON M7A 2C1 Tél: (416) 314-2599

Ministère de l'Énergie



Indigenous Energy Policy

VIA EMAIL

August 4, 2017

Ken McCorkle Manager, Indigenous Affairs Union Gas Limited 50 Keil Drive North Chatham, ON N7M 5M1

Re: Saugeen Natural Gas Pipeline Project

Dear Mr. McCorkle:

Thank you for your email dated July 3, 2017, notifying the Ministry of Energy of Union Gas Limited's (Union Gas) intention to apply for Leave to Construct for the Saugeen First Nation Natural Gas Pipeline Project and requesting clarification on Duty to Consult requirements.

I understand that Union Gas is planning to bring natural gas service to Saugeen First Nation. The Project consists of approximately 16.5 km of 2" and 4" polyethylene distribution pipelines to service the community. The proposed pipeline will commence at Union's existing pipeline on Bruce Road 17 and will run north to Saugeen First Nation. One ancillary facility will be required for the project.

The Ministry has reviewed the information provided relative to its current understanding of the interests of First Nation and Métis communities in the area and has determined that it may have the potential to affect First Nation and Métis communities who hold or claim Aboriginal or treaty rights protected under Section 35 of Canada's *Constitution Act* 1982.

As you are aware, the Government of Ontario (the "Crown") has a constitutional duty to consult and accommodate First Nation and Métis communities when Crown project approvals may lead to an appreciable adverse impact on established or asserted Aboriginal or treaty rights. While the legal duty to consult falls on the Crown, the Crown may delegate the day-to-day, procedural aspects of consultation to project proponents. The Ministry of the Energy is delegating the procedural aspects of consultation to Union Gas through this letter.

Based on the Crown's preliminary assessment of First Nation and Métis community rights and project impacts, the following Aboriginal communities should be consulted on the basis that they have or may have constitutionally protected Aboriginal or treaty rights that may be adversely affected by the Project:

Community	Mailing Address
Saugeen First Nation*	RR1
	Southampton ON N0H 2L0
Chippewas of Nawash Unceded First	RR5
Nation*	Wiarton ON N0H 2T0
Historic Saugeen Métis	200 High Street
	Southampton, ON N0H 2L0

Notes:

* Saugeen Ojibway Nation (SON) is collectively the Chippewas of Nawash Unceded First Nation and Saugeen First Nation. You should contact the SON's Environment Office at 25 Maadookii Subdivision, Neyaashiinigmiing ON N0H 2T0 to discuss how best to share project information and to engage with the SON. This office is responsible for managing the collective consultation interests and activities of both SON communities.

This rights-based consultation list is based on information that is subject to change. First Nation and Métis communities may make new rights assertions at any time, and other developments (e.g. the discovery of Aboriginal archaeological sites) can occur that may require additional First Nation and/or Métis communities to be notified and/or consulted. If you become aware of potential rights impacts on communities that are not listed above at any stage of the consultation and approval process, kindly bring this to the attention of the Ministry with any supporting information regarding the claim. The Ministry will then assess whether it is necessary to include the community on the rightsbased consultation list above.

The Ministry relies on consultation conducted by proponents when it assesses the Crown's obligations and directs proponents during the regulatory process. Union Gas' responsibilities for procedural aspects of consultation include:

- Providing the First Nation and Métis communities with timely notice of the project for the purposes of considering possible impacts on their Aboriginal and/or treaty rights;
- Providing First Nation and Métis communities with information about the project including anticipated impacts, and information on project timelines;

- Following up with First Nation and Métis communities to ensure they have received project information and that they are aware of the opportunity to express comments and concerns about the project;
- · Explaining the regulatory and approval processes that apply to the project;
- Gathering information about how the project may adversely impact the relevant Aboriginal and/or treaty rights (for example, hunting, fishing) or sites of cultural significance (for example, burial grounds, archaeological sites);
- Considering the comments and concerns raised by First Nation and Métis communities and providing responses;
- Where appropriate, discussing accommodation, including mitigation or other measures to address potential adverse impacts on Aboriginal and/or treaty rights;
- Where appropriate, developing and discussing with the Crown appropriate accommodation measures;
- Taking reasonable steps to foster positive relationships with the First Nation and Métis communities;
- Bearing the reasonable costs associated with these procedural aspects of consultation; and
- Maintaining records of activities in relation to carrying out the delegated procedural aspects of consultation and providing information to the Ministry.

If you have any questions about this letter or require any additional information please contact me 416-314-2599 or <u>Shannon.mccabe@ontario.ca</u>

Sincerely,

Shannon McCabe A/Manager Indigenous Energy Policy

C: Ontario Pipeline Coordinating Committee (OPCC) members

Schedule D - Presentation used for April 23, 2018 meeting





Extending Natural Gas Service: Saugeen First Nation

April 23, 2018

Union Gas 101





Union Gas | 2



(a) uniongas

Union Gas | 5

Union Gas | 6

Saugeen First Nation & Union Gas – Working Together

- Union Gas has been working with the Saugeen First Nation leadership for a number of years to expand access to natural gas service
- Historically regulatory barriers prevented Union Gas from expanding to many rural, remote and Indigenous communities
- Recently, the Ontario Energy Board (OEB) has updated the regulatory framework governing utilities looking to expand access
- Ontario Ministry of Infrastructure offered a \$100 million program to help fund natural gas expansion to rural, remote and Indigenous communities
- Last summer, Union Gas and the Saugeen First Nation partnered on the submission of a grant application to the provincial program and the project was awarded funding

Saugeen First Nation Proposal Description How will expansion be funded? Sustomer Rate - volumetric surcharge of .23 cents per cubic meter in addition to Union's current rates for a limited period Surcharge Term: 40 years Community Contribution: Approximately \$4,774/year for 10 years (equivalent to the Payment in Lieu of Taxes that are paid annually by Union on infrastructure). Government Aid: Union Gas has submitted an application for funding to the provincial Natural Gas Grant Program and this project was awarded funding. Timing: Fall 2019 in-service (pending OEB approval)



Proposed Service Map & Project Overview

Iniongas Au Entrese Company



Band Owned

- 1 household
- 4 multiplexes
- 16 businesses

Private

- 126 households
- 3 business

Est. Annual Savings: \$97,500

Note: Commercial conversions will lead to higher savings if they are larger energy users

Other appliance conversions will also increase savings and are not included in above estimate

Union Gas | 8



Union Gas

What will construction look like? (Kettle and Stony Point Example)





Union Gas | 11

Next Steps



- Ontario Energy Board Filing
- Community Meeting
- Service application and support
- Construction
- Demand Side Management

Union Gas | 12

Correspondence - Saugeen Ojibway Nation and Saugeen First Nation

From:	Ken McCorkle	Sent:	Tue 01/08/2017 9:13	AM
To:	Lester Anoquot			
Cc:	John Bonin			
Subject:	Natural Gas Expansion to Your Community			
Good m I am wri Program and elec our tear program with all such, no committ more ru This fall, Guidelin annound On beha continui	brning Chief Anoquot; ting to inform you that Union Gas has successfully submitted an application to the Ontario to on behalf of your community in time for the July 31, 2017 deadline. We appreciate the he ted officials who passed motions, submitted letters of support, and worked tirelessly to su in at Union Gas. During the 90 day application window, Union Gas processed and filed 46 a to on behalf of our First Nations partners. The total funding required to offset the capital sl of these projects exceeds the \$70 million in funding available for community expansion un t all projects are likely to be approved under the current program. With that said, Union G ed to advocating for additional support to see continued progress on the expansion of na ral, remote and Indigenous communities. the provincial government will allocate funding to projects that best meet the Natural Ga e criteria. Union Gas will keep you informed of any updates in advance of, and following mement.	Natu Poport Poplica Nortfa der th Sas rer tural g s Grar the gc	ral Gas Grant dedicated staff the efforts of tions to the Il associated e program. As mains firmly gas access to at Program overnment's look forward to	
From: To:	Ken McCorkle Lester Anoquot	Se	ent: Thu 07/09/2017 11:3	3 AM
Cc: Subject:	RE- Natural Gas Expansion to Your Community			
Hello Chie I trust this I am follo Customer council or minutes o Miigwetcl Ken	f Anoquot: email finds you well! wing up with you to request a few moments of your time to give you an update of the project to date. I and Growth person who you met in a previous meeting to review the map and answer any questions to with you and whoever you choose for an update and answer any questions you may have going forwar r less. We are available the week of September 18th if a date and time works for you? I will await your r h,	would this po d. We v espons	attend with our int. We can meet at would only need 30 æ!	

Ken McCorkle Manager, Indigenous Affairs Union Gas Ltd. Phone: 519-436-4600 Ext.5002243 Cell; 519-365-0584 Toll Free: 877-293-6215 Fax; 519-436-5392 Email: <u>kmccorkle@uniongas.com</u> We can't change the past, but we can influence our future

Filed: 2019-10-17, EB-2019-0187, Exhibit B, Tab 2, Schedule 13, Page 23 of 33

From: To: Cc: Subiect:	Ken McCorkle Doran Ritchie Lauren Whitwham Saugeen First Nation Natural Gas Community Expansion!	Sent: Thu 02/11/2017 1:18 AM
Hello Dor The work governme event tha weeks. As complete to be on s Miigwetc Ken	an: to bring Natural gas to the Saugeen First Nation that we have spoken of is still on hold pending the notificat ent of the grant money to fund the project. According to our sources the announcement is sometime in mid- t the Saugeen First Nation is awarded grant money Union would like to start work on the Archeology survey is the work is contained to a running line on existing road allowance the Archeology survey will only require a . Remembering that if something is found the work will be extended. Would you have a monitor you would l is in the event that Union moves ahead with this project? Please give me a call for further discussion on this h,	ion by the Provincial November. In the in the next few day or two to ike to have contacted s matter.
Ken M Manager Union Ga Phone: 5 Cell; 519 Toll Free Fax; 519 Email: <u>kn</u> We can't	<i>cCorkLe</i> Indigenous Affairs s Ltd. 19-436-4600 Ext.5002243 365-0584 877-293-6215 436-5392 <u>hccorkLe@uniongas.com</u> change the past, but we can influence our future	
From:	Ken McCorkle	Sent: Tue 21/11/2017 5:22 PM
To: Cc:	Doran Ritchie	
Hello Dor Here is th	an; e information you requested as per our conversation today. Thank you for the follow up call.	rg ■
Miigwetc Ken <i>Ken M</i> Manager Union Ga Phone: 5 Cell; 519 Toll Free Fax; 519 Email: <u>kr</u> We cen't	h, <i>cCorkLe</i> Indigenous Affairs s Ltd. 19-436-4600 Ext.5002243 365-0584 : 877-293-6215 436-5392 <u>nccorkLe@uniongas.com</u> <u>cbange the past. but we can influence our future</u>	=
From: En Sent: No To: Ken Subject	van Tomek vember-21-17 5:11 PM McCorkle : RE: Saugeen First Nation Community Expansion!	
Hi Ken,		
Here is a	summary of the work going on for Saugeen FN:	
- U - S - T - A	IGL is completing the Environmental Protection Plan tantec is completing the Species at Risk Report immins Martelle Heritage Consultants Inc. is completing the Archaeological Assessment ecom is completing the Cultural Heritage Assessment	
Evan		

From: Ken McCorkle <<u>KMcCorkle@uniongas.com</u>>
Date: Wednesday, November 29, 2017 at 10:24 AM
To: Doran Ritchie <<u>d.ritchie@saugeenojibwaynation.ca</u>>
Cc: Evan Tomek <<u>ETomek@uniongas.com</u>>, Lauren Whitwham <<u>LWhitwham@uniongas.com</u>>
Subject: Meeting with interested parties for the Saugeen First Nation!

Hello Doran:

As per our call the other day I have touched base with our Environmental Planner who can get all the parties of interest in a meeting in Waterloo on Dec 13th. This is a tight time line for this time of the year but I just want to confirm your attendance before confirming the meeting. We can have it at our Waterloo office mid to late morning to allow for travel. Please let me know if this works for you as soon as you can so we can get the meeting into the calendars with all our partners.

Miigwetch. Ken

Ken McCorkle

Manager, Indigenous Affairs Union Gas Ltd. Phone: 519-436-4600 Ext.5002243 Cell; 519-365-0584 Toll Free: 877-293-6215 Fax; 519-436-5392 Email: <u>kmccorkle@uniongas.com</u> We can't change the past, but we can influence our future

From: Doran Ritchie [mailto:d.ritchie@saugeenojibwaynation.ca]
Sent: November-29-17 1:25 PM
To: Ken McCorkle
Cc: Evan Tomek; Lauren Whitwham
Subject: [External] Re: Meeting with interested parties for the Saugeen First Nation!

Hello Ken,

Sorry but minutes before you sent this email, that date was booked for another meeting. I currently have the 12th and 15th open for a meeting.

Thank you, Doran

rom:	Ken McCorkle	Sent:	Wed 29/11/2017 1:56 PM
fo:	Doran Ritchie		
Dc:	Evan Tomek; Lauren Whitwham		
Subject:	RE: [External] Re: Meeting with interested parties for the Saugeen First Nation!		
Hello Dor Please ke	an: ep the 15 th open as I will confirm with Evan if the other parties can attend!		G 3 ▲
Ken			
Ken M Manager Union Ga Phone: 5 Cell; 519 Toll Free Fax; 519 Email: <u>kn</u> We can't	<i>IcCorkle</i> , Indigenous Affairs is Ltd. 19-436-4600 Ext.5002243 -365-0584 : 877-293-6215 -436-5392 <u>nccorkle@uniongas.com</u> change the past, but we can influence our future		Ш

Filed: 2019-10-17, EB-2019-0187, Exhibit B, Tab 2, Schedule 13, Page 25 of 33

From:	Ken McCorkle	Sent: Wed 29/11/2017 2:53 PM
To:	Doran Ritchie	
CC: Subject:	Evan Tomek; Lauren whitwham Mosting for December 15th	
Subject.		
Hello Do Evan was allow for	ran: s able to arrange for the parties to meet in Waterloo for December r travel. I will forward you the time and address of our Waterloo off	15 th . I will set the time for mid-morning to ice for the meeting in the next day or so.
Thanks,		
Ken		
Ken M Manager	<i>LcCorkle</i> r, Indigenous Affairs	
Phone: 5	519-436-4600 Ext.5002243	
Toll Free Fax: 519	9: 877-293-6215 - 436-5392	
Email: <u>k</u>	mccorkle@uniongas.com	
We can't	t change the past, but we can influence our future	
		-
From:	Doran Ritchie <d.ritchie@saugeenojibwaynation.ca></d.ritchie@saugeenojibwaynation.ca>	Sent: Fri 01/12/2017 10:26 AM
To:	Ken McCorkle	
Cc:	Evan Tomek; Lauren Whitwham	
Subject:	[External] Re: Meeting for December 15th	
Hello Ker	η,	Ca 🗛
Wo'ro de	sing the store 1 to day and payt Menday with TMUC We're generati	ing some questions as we go so I think it
would be	e worth while to include them in the meeting on the 15th.	ng some questions as we go so I think it
Thank yo	u,	
Doran		
Sent from	n my iPhone	

Filed: 2019-10-17, EB-2019-0187, Exhibit B, Tab 2, Schedule 13, Page 26 of 33

Follow up This mest	p. Start by December-14-17. Due by December-14-17. sage is part of a tracked conversation. Click here to find all related messages or to open the original flagged message.	
From:	Ken McCorkle Sent: Fri 01/12/2017 10::	56 AM
To:	Doran Ritchie	
CC:	Eval Fornex, Lauren wintwindin	
Hello Dor TMHC is o for the fo	ran: one of the members that will be at the table on the 15 th . They confirmed attendance last Wednesday. Thanks ollow up to ensure we have all the necessary parties at the table!	
Ken Ken M	lcCorkle	=
Manager Union Ga Phone: 5 Cell; 519 Toll Free Fax; 519 Email: <u>kr</u> We can't	s I.td. i19-436-4600 Ext.5002243 i-365-0584 i: 877-293-6215 i-436-5392 <u>mccorkle@uniongas.com</u> i change the past, but we can influence our future	

From:	Ken McCorkle	Sent:	Thu 01/03/2018 10:23 AM
To:	Doran Ritchie		
Cc:	Lauren Whitwham		
Subject:	Saugeen First Nation Natural Gas Expansion		

23

Hello Doran:

I trust this finds you well!

I just wanted to follow up with you regarding our last meeting just before Christmas at our Waterloo office. Is there anything that you need/require or is outstanding from that meeting? Looking forward to meeting with you again as we continue moving forward.

Miigwetch, Ken

Ken McCorkle Manager, Indigenous Affairs Union Gas Ltd. Phone: 519-436-4600 Ext.5002243 Cell; 519-365-0584 Toll Free: 877-293-6215 Fax; 519-436-5392 Email: kmccorkle@uniongas.com We can't change the past, but we can influence our future

Filed: 2019-10-17, EB-2019-0187, Exhibit B, Tab 2, Schedule 13, Page 27 of 33

From:	Doran Ritchie <d.ritchie@saugeenojibwaynation.ca></d.ritchie@saugeenojibwaynation.ca>	Sent: N	Mon 05/03/2018 3:20) PM
To:	Ken McCorkle			
Cc:	Lauren Whitwham; Cheree Urscheler			
Subject:	[External] Re: Saugeen First Nation Natural Gas Expansion			
Hello Ke	en,			
Thank y	ou for the email. I hope you are well!			
l'm just questio	reviewing my notes and looking at a few items that I needed to follow up on. Below is a li ns I have based on our meeting in December	st of fol	low up	_
•	It was discussed that there was a total of 2 community meetings and both were poorly at recommendation is that we set another meeting date, send us some information on the p allow SON staff to recirculate to the community. Reason being, everyone I've spoken to h go. Should also include a project outline of the different phases then send out a info or fa Saugeen FN website and include in their monthly newsletter.	tended. ropose nave no ct letter	My d project, and idea this is a r to the	
•	Was there notification in mid-January about the funding for the project? I have it down in was to be official word on the funding but I haven't seen that correspondence yet. Review the NH report that was to be completed in January 2018. Update on the Cultural Heritage Study.	my not	es that there	
•	Once studies are complete (minus archeology study), I can draft a letter of agreement, increview and input from SON. Confirm dates for start of archeology, confirmation on assessing lines into buildings from line	the ma	costs for in distribution	
l th hav	ink those are my comments for now. At least that's what I have from my notes. Please fee e any questions or comments.	l free to	o call me if you	
Tha Dor	nks, an			
				-
Follow up). Start by April-02-18. Due by April-02-18.			
From: To: Cc:	Ken McCorkle Lester Anoquot; Doran Ritchie Lauren Whitwham	Se	nt: Thu 29/03/2018 4:2	22 PM
Subject:	Natural Gas Pipeline Expansion to Saugeen First Nation			
🖂 Message	160961225_OEB_Pipeline_Route_SaugeenFN (0321).pdf (1 MB)			
Hello Chi I just war any quest	ef Anoquot and Doran: ited to forward and ensure you had the latest copy of the proposed natural gas pipeline expansion map f iions please do not hesitate to contact me.	or the re	serve. If there are	
Miigwetc Ken	h,			

Ken McCorkle

Manager, Indigenous Affairs Union Gas Ltd. Phone: 519-436-4600 Ext.5002243 Cell; 519-366-0584 Toll Free: 877-293-6215 Fax; 519-436-5392 Email: <u>kmccorkle@uniongas.com</u> We can't change the past, but we can influence our future

Filed: 2019-10-17, EB-2019-0187, Exhibit B, Tab 2, Schedule 13, Page 28 of 33

I Follow up. Start by April-04-18. Due by April-04-18. Doran Ritchie <d.ritchie@saugeenojibwaynation.ca> From: Sent: Wed 04/04/2018 10:08 AM To: Ken McCorkle Lauren Whitwham; Cheree Urscheler Cc: Subject: [External] Re: Saugeen First Nation Natural Gas Expansion C₂ Hello Ken, Just following up on this email. Any news on that front? Thanks. Doran Ken McCorkle Sent: Wed 04/04/2018 4:15 PM

≡

To:	Doran Ritchie	
Cc:	Lauren Whitwham; Cheree Urscheler	
Subject:	RE: Saugeen First Nation Natural Gas Expansion	
Hello Do	ran:	- -
Папкус	ou for the follow up. Failt still waiting of a couple of responses and I will get back to you shortly.	
Miigwet Ken	ch.	=
<i>Ken Я</i> Manage	<i>LcCorkle</i> r, Indigenous Affairs	
Union G Phone: { Cell; 519 Toll Free	as Ltd. 519-436-4600 Ext.5002243 9-365-0584 e: 877-293-6215	
Fax; 519 Email: k	9-436-5392 mccorkle@uniongas.com	

Halla Chia	f Anomusti		- 52
Subject:	Meeting April 23rd		
Cc:	Lauren Whitwham		
To:	Lester Anoquot		
From:	Ken McCorkle	Sent:	Wed 04/04/2018 2:08 PM

Hello Chief Anoquot:

From

Would you and council be available the morning of April 23rd for a meeting with some Union Gas personnel (Construction Superintendent/Engineer Lead/Service personnel)? We would like to bring you up to date regarding the status of the installation as the announcement for funding has finally been made public by the provincial government. We would like to book 45 minutes to an hour at the most to introduce you to the team and discuss updates and answer any questions your council may have. We have meant previously at 10:00 o'clock but whatever time works best for you? Could you please let me know if the 23rd works for you? I will notify Doran Ritchie once a date has been confirmed.

Miigwetch, Ken.

Ken McCorkle Manager, Indigenous Affairs Union Gas Ltd. Phone: 519-436-4600 Ext.5002243 Cell; 519-365-0584 Toll Free: 877-293-6215 Fax; 519-436-5392 Email: kmccorkle@uniongas.com We can't change the past, but we can influence our future

We can't change the past, but we can influence our future

Filed: 2019-10-17, EB-2019-0187, Exhibit B, Tab 2, Schedule 13, Page 29 of 33

To:	Ken McCorkle; Lester Anoquot		
Cc:	Lauren Whitwham		
Subject:	[External] Re: Meeting April 23rd		
Hi Ken	n, Monday, April 23rd at 10am is booked.		
From:	Ken McCorkle	Sent:	: Thu 05/04/2018 8:54 AN
To:	Lester Anoquot		
Cc:	Lauren Whitwham		
Subject:	RE: Meeting April 23rd		
Hello C Thank y	Chief Anoquot: you for the quick response and confirmation regarding the 23 rd . Looking forwar	rd to meeting with you and council age	ain. Construction
Hello C Thank y is plann Miigwe Ken	Chief Anoquot: you for the quick response and confirmation regarding the 23 rd . Looking forwar ned for Spring of 2019 and we will hit that target now that we have the green li _l etch,	rd to meeting with you and council aga ght and doing this early planning.	ain. Construction

From:	Ken McCorkle	Sent: Mon 09/04	/2018 3:00 PM
Cc:	Lauren Whitwham; Cheree Urscheler		
Subject:	RE: [External] Re: Saugeen First Nation Natural Gas Expansion		-
Hello Dor Thank yo continue Miigweto	ran: u for your response. I have answered your questions below as marked in red. I am looking forward to meeting our dialogue. h	g with you agair	n to
Ken M Manager Union Ga Phone: 5 Cell; 519 Toll Free Fax; 519 Email: <u>kr</u> We can't	<i>LcCorkle</i> , Indigenous Affairs is Ltd. 19-436-4600 Ext.5002243 -365-0584 : 877-293-6215 -436-5392 <u>nccorkle@uniongas.com</u> change the past, but we can influence our future		8
From: Do Sent: Mar	ran Ritchie [<u>mailto:d.ritchie@saugeenojibwaynation.ca]</u> rch-05-18 3:20 PM	✤ Next	Previous
To: Ken M	IcCorkle		L
Cc: Laure Subject:	n Whitwham; Cheree Urscheler [External] Re: Saugeen First Nation Natural Gas Expansion		
Hello Ken,			
Thank you	for the email. I hope you are well!		
l'm just re our meetir	viewing my notes and looking at a few items that I needed to follow up on. Below is a list of follow up que ng in December	stions I have b	ased on
It ar Re se Union will construction	was discussed that there was a total of 2 community meetings and both were poorly attended. My recom nother meeting date, send us some information on the proposed project, and allow SON staff to recirculat eason being, everyone I've spoken to have no idea this is a go. Should also include a project outline of the nd out a info or fact letter to the Saugeen FN website and include in their monthly newsletter. forward you some information on the project so that this can be set up. We are early in the planning stag on Spring/Summer of 2019.	mendation is the comm different phase es with a targe	nat we set unity. es then t date for
• W	as there notification in mid-January about the funding for the project? I have it down in my notes that the ord on the funding but I haven't seen that correspondence yet.	re was to be of	ficial
Union just • Re	received the official word that funding for this project is now made public as of April 6/18. eview the NH report that was to be completed in January 2018.		
ا f /9 ال	ollowed up with Mark Knight from our previous meeting and he will forward you a copy of the Natural He 18). Could you confirm when you receive the report so that I know you have it? odate on the Cultural Heritage Study.	ritage report to	oday (April
l a from t	m still waiting for a response from Aecom regarding the status of the Cultural Heritage study. I will forwar hem.	rd as soon a	is I hear
 Or SC 	nce studies are complete (minus archeology study), I can draft a letter of agreement, including costs for re DN.	view and input	from
• Co Su	onfirm dates for start of archeology, confirmation on assessing lines into buildings from the main distribut Immer of 2018 for the Archeology. Union will notify ahead of schedule.	ion line	
I also messa I think	wanted to speak with you regarding a meeting set up with Chief and Council at Saugeen for Monday April ge and will wait for you to return my call (my cell 519-365-0584) those are my comments for now. At least that's what I have from my notes. Please feel free to call me if	23 rd at 1:30. I le you have any q	eft a voice uestions

Correspondence - Historic Saugeen Métis

Follow up	Start by November-28-17. Due by November-28-17.		
From:	Ken McCorkle	Sent:	Fri 24/11/2017 2:33 PM
То:	saugeenmetis@bmts.com; plmcarthur@bmts.com; saugeenmetisadmin@bmts.com		
Cc:	Lauren Whitwham; Evan Tomek		
Subject:	Saugeen First Nation Natural Gas Expansion Project		

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Hello George, Patsy & Carolyn:

First let me say thank you for your time and attention to the Saugeen First Nation Natural Gas Expansion project under the Provincial Community Expansion grant. Our time and discussion covered a lot of ground with clarification and opportunities for Union to understand your requirements regarding this project. From our meeting yesterday (Nov 23/17) I came away with the following action items:

1) Union will notify you when the Provincial grant money has been announced. This will determine if the project is a go or no go.

2) Union will notify you when Timmins Martelle proceeds with Stage 2 for the Archeological survey.

3) Union will forward a copy of the Environmental Assessment when completed.

4) Union will maintain an electronic log as forwarded by the Historic Saugeen Métis starting with the August 11th email.
5) Union will provide an opportunity for the committee to tour the construction site at an agreed upon time. Tour will include a Union representative with firsthand knowledge of the project.

The discussion also included the level of engagement is based on the specifics of the project and reflects only the project at hand. There are no monitors available for the project and Union will avail themselves of the Historic Saugeen Métis web site to maintain current information regarding consultation and correspondence.

If I have missed anything or you want to comment on the above information please do not hesitate to contact me at your earliest convenience.

Sincerely, Ken

Ken McCorkle

Manager, Indigenous Affairs Union Gas Ltd. Phone: 519-436-4600 Ext.5002243

Filed: 2019-10-17, EB-2019-0187, Exhibit B, Tab 2, Schedule 13, Page 32 of 33

From: Lands and Resources Consultation Coordinator [mailto:saugeenmetisadmin@bmts.com] Sent: December-11-17 11:44 AM To: Ken McCorkle Subject: [External] Re: Saugeen First Nation Natural Gas Expansion Project

Your File: Our File: Union Gas – Saugeen First Nation Pipeline

Good Morning Ken,

Acknowledge your e-mail from November 24, 2017 regarding HSM consultation/engagement process for the proposed SON Pipeline Project that may be undertaken by Union Gas.

I believe you have accurately captured the action items and expectations of Historic Saugeen Metis for consultation and engagement related to this project.

Regards,

George Govier

Co-ordinator Lands, Resources, and Consultation

Historic Saugeen Metis 204 High Street Southampton, Ontario NOH 2L0 Direct Line (519) 483-4001 Fax (519) 483-4002 Email <u>saugeenmetisadmin@bmts.com</u>

From:	Ken McCorkle	Sent:	Mon 09/04/2018 4:43 PM
To:	Lands and Resources Consultation Coordinator		
Cc:	Lauren Whitwham		
Subject:	Natural Heritage Report re: Saugeen First Nation expansion		
🖂 Message	🔁 rpt_61225_Saugeen_nat-her_20180312_fin.pdf (7 MB)		

C₂

Hello George:

Please find attached a copy of the Natural Heritage Report for the Saugeen First Nation community expansion project!

Miigwetch, Ken

Ken McCorkle Manager, Indigenous Affairs Union Gas Ltd. Phone: 519-436-4600 Ext.5002243 Cell; 519-365-0584 Toll Free: 877-293-6215 Fax; 519-436-5392 Email: <u>kmccorkle@uniongas.com</u> We can't change the past, but we can influence our future From: Ken McCorkle Sent: Wed 11/04/2018 8:43 PM Lands and Resources Consultation Coordinator To: Lauren Whitwham Cc: Subject: Saugeen First Nation Natural Gas project! -Co Hello George: I trust this finds you well! I just wanted to inform you, as per your request at our last meeting (Nov 23/17), that the Provincial government has made the public announcement that the Saugeen First Nation was a successful applicant in being awarded funding for a community expansion project. This announcement was made on April 6, 2018 and now paves the way for the project to install Natural Gas on the Saugeen First Nation reserve as requested by that First Nation. In continuing with the follow up I will forward a copy of the EA when completed and will notify you when Stage two of the Archeology survey begins. I will also notify you when construction begins so that you and your staff will have an opportunity to tour the site as we agreed. As a side note I would like to meet with you to go over the electronic log you forwarded so that I understand it and to ensure that I have captured the history correctly. Perhaps when I drop in on the 23rd we could set a date to discuss this? If there is anything that I have left out please notify me as soon as possible. Looking forward to our paths crossing again! Miigwetch, Ken Ken McCorkle Manager, Indigenous Affairs Union Gas Ltd. Phone: 519-436-4600 Ext.5002243 Cell; 519-365-0584 Toll Free: 877-293-6215 Fax: 519-436-5392 Email: kmccorkle@uniongas.com We can't change the past, but we can influence our future

Ministry of Energy, Northern Development and Mines Ministère de l'Énergie, du Développement du Nord et des Mines

77 Grenville Street 6th Floor Toronto ON M7A 2C1

Tel: (416) 325-6544

77, rue Grenville 6° étage Toronto ON M7A 2C1 Tél: (416) 325-6544

Indigenous Energy Policy

VIA EMAIL

June 28, 2019

Zora Crnojacki Chair, Ontario Pipeline Coordinating Committee P.O. Box 2319 2300 Yonge Street Toronto ON M4P 1E4

Re: Consultation Sufficiency Opinion for Saugeen First Nation Natural Gas Pipeline Project

Dear Ms. Crnojacki,

The Ontario Ministry of the Energy, Northern Development and Mines has completed its review of Union Gas' Indigenous consultation report for the Saugeen First Nation Natural Gas Pipeline Project. This letter is to notify you that based on the information provided and through contacting the communities directly, the Ministry is of the opinion that the procedural aspects of consultation undertaken by Union Gas to date for the purposes of the Ontario Energy Board's Leave to Construct for the Saugeen First Nation Natural Gas Pipeline Project is satisfactory.

If you have any questions about this letter or require any additional information, please contact Emma Sharkey at 416-529-8953 or Emma.Sharkey@Ontario.c

It is expected that Union Gas will continue its consultation activities with the communities throughout the life of the project, and that Union Gas will notify the Ministry should any additional rights-based concerns/issues arise.

Sincerely,

Shannon McCabe Manager Indigenous Energy Policy

c: Ken McCorkle Ontario Pipeline Coordinating Committee





Ministry of Infrastructure

Office of the Minister

Hearst Block, 8th Floor 900 Bay Street Toronto, Ontario M7A 1L2 Telephone: 416-325-6666 Fax: 416-314-5464

DEC 0 8 2017

Mr. Jeff O'Krucky Director, New Business Union Gas Ltd. 50 Keil Drive North P.O. Box 2001 Chatham, Ontario N7M 5M1 jokrucky@uniongas.com

Dear Mr. O'Krucky:

I am pleased to inform you that five of your projects have been selected for conditional funding approval under the Natural Gas Grant Program, resulting in total project funding of up to \$39,938,656.00.

These approvals are conditional upon the projects obtaining final approval from the Ontario Energy Board (OEB), as applicable, following which Union Gas Ltd. will be eligible to enter into five Transfer Payment Agreements with the province.

Once the respective agreements are signed by Union Gas Ltd. and subject to the related terms and conditions, the province will provide funding towards the total eligible project costs of each project, as described in the table below:

Project Title	Maximum Provincial Contribution
Chippewa of the Thames First Nation	\$1,425,221.00
Moraviantown First Nation – Commercial Area	\$311,467.00
North Shore and Peninsula Roads	\$8,666,904.00
Saugeen First Nation	\$1,802,263.00
South Bruce	\$27,732,801.00

The provincial contribution is limited to these specific projects (i.e. funds are non-transferable).

This information should be kept confidential until such time as the government has announced funding for these projects.

Ministère de l'Infrastructure

Bureau du ministre

Édifice Hearst, 8^e étage 900, rue Bay Toronto (Ontario) M7A 1L2 Téléphone : 416 325-6666 Télécopieur : 416 314-5464



Ontario

Our File: UNG-NGGP2017

The intake was highly competitive. Applications representing over \$500 million in proposed funding were received for the \$100 million program. As a result, a number of projects could not be funded. The Ministry of Infrastructure used a robust evidence-based process and relied on technical experts from a number of provincial ministries to assess applications. For further details on the evaluation criteria, please consult the program guidelines available on Infrastructure Ontario's website: www.infrastructureontario.ca/NGGP/.

Please note the municipalities or First Nations who passed a council or band resolution supporting specific projects will be notified of the assessment outcome for those projects and have been encouraged to reach out directly to Union Gas Ltd. should they have any questions.

Agency staff are available to provide additional details on your project(s) assessment(s). To facilitate, or should you have any questions, please do not hesitate to contact Infrastructure Ontario by phone at 1-844-357-0725 or by email at nggp@infrastructureontario.ca.

Congratulations on your successful applications and we look forward to working with you as you implement these projects.

Sincerely,

Bob Chiarelli Minister

c: Sarah Van Der Paelt, Director of Business Development, Union Gas Ltd.
Filed: 2019-10-17, EB-2019-0187, Exhibit B, Tab 2, Schedule 15, Page 3 of 6 Filed: 2018-05-07 EB-2018-0142 Ministry of Infrastructure^{Schedule 2}

Page 3 of 6

Ontario Lowering Heating Costs by Expanding Access to Natural Gas

Province Announces 11 Communities for New Service April 3, 2018 2:35 P.M.

Ontario is helping to significantly lower heating costs for thousands of families and businesses in rural, northern and First Nations communities by expanding access to natural gas. The move is expected to save families as much as \$1,100 every year.

Jeff Leal, Minister of Agriculture, Food and Rural Affairs and Minister Responsible for Small Business, was joined by Lou Rinaldi, MPP for Northumberland--Quinte West, in the Hiawatha First Nation on behalf of Bob Chiarelli, Minister of Infrastructure, to announce projects selected to receive funding to build the supporting natural gas infrastructure and expand access to natural gas, pending regulatory approvals for construction. This includes moving forward on constructing a natural gas distribution pipeline to connect homes and businesses in the Hiawatha First Nation and areas of the Township of Otonabee-South Monaghan. Natural gas service will help attract new industry, make commercial transportation and agriculture more affordable, provide a cleaner source of energy, reduce costs and support greater consumer choice.

Expanding access to natural gas is part of Ontario's plan to support care, create opportunity and make life more affordable during this period of rapid economic change. The plan includes a higher minimum wage and better working conditions, free tuition for hundreds of thousands of students, easier access to affordable child care, and free prescription drugs for everyone under 25 and over 65 through the biggest expansion of medicare in a generation.

QUOTES

" Access to natural gas will provide more affordable energy choices for Ontario's rural, northern and First Nations businesses and families. Projects that we're funding through the grant program will generate significant local investment, helping businesses grow and create new jobs, and helping families lower their heating bills. "

- Bob Chiarelli

Minister of Infrastructure

" Increasing access to natural gas is good news for Ontario's agricultural sector and our rural, northern and Indigenous communities. These projects will have a positive impact on local Filed: 2019-10-17, EB-2019-0187, Exhibit B, Tab 2, Schedule 15, Page 4 of 6 economies, reduce energy costs and make a real difference in the everyday lives of residents and businesses. " loff Loal

- Jeff Leal

Minister of Agriculture, Food and Rural Affairs and Minister Responsible for Small Business

" Natural gas access is a critical driver of economic development, affordability and quality of life in communities like Hiawatha First Nation, and we support Minister Chiarelli's efforts to bring natural gas to more communities. "

- Jim Sanders

President of Enbridge Gas Distribution

"We are very pleased that a number of Ontario communities are now a step closer to accessing natural gas – a reliable and affordable source of energy to keep families warm and to support the growth of local businesses and industry. We appreciate Minister's Chiarelli's support and leadership in making this a reality. There was an overwhelming interest in the Natural Gas Grant Program and we are committed to work with government to help even more communities access natural gas in the future."

- Steve Baker

President of Union Gas

QUICK FACTS

- The Natural Gas Grant Program launched in January 2017. The program will provide approximately \$100 million to support projects in northern, rural and First Nations communities to help increase access to natural gas, and significantly lower heating costs.
- More than 11,300 homes and businesses are expected to be able to connect to natural gas through the supported projects.
- Natural gas is the dominant heating source in Ontario and continues to be consistently less expensive than alternative sources such as electricity, heating oil and propane.

LEARN MORE

- Ontario's Long Term Infrastructure Plan
- Ontario Energy Board
- Ontario's Long-Term Energy Plan
- Programs to reduce electricity costs for consumers

Alex Benac Minister's Office alex.benac@ontario.ca 416-326-2137 Sofia Sousa-Dias Communications Branch Sofia.Sousa-Dias@ontario.ca 437-991-3391 Page 4 of 6



Ontario's Natural Gas Grant Program: 11 New Projects

April 3, 2018 2:34 P.M.

Launched in January 2017, the Natural Gas Grant Program will invest approximately \$100 million to support projects in northern, rural and First Nation communities. The investment will help more people across Ontario connect to natural gas and significantly lower their heating costs. The supported projects are expected to result in over 11,300 homes and businesses being connected, including in six First Nations communities. **Approved Projects**

Project Name	Project Description	Grant Amount
Chippewas of the Thames First Nation	Will construct a natural gas pipeline to connect homes and businesses within the Chippewa of the Thames First Nation Reserve.	\$1,425,000
Cornwall Island	Will construct a natural gas transfer station and distribution pipeline to connect homes and businesses located on Cornwall Island.	\$3,447,000*
Fenelon Falls	Will construct a reinforcement and distribution pipeline to connect homes and business, including one large industrial customer, within the Village of Fenelon Falls, located in the City of Kawartha Lakes.	\$12,330,000 [°]
Hiawatha First Nation	Will construct a natural gas distribution pipeline to connect homes and businesses located within the Hiawatha First Nation and adjoining areas of the Township of Otonabee- South Monaghan.	\$3,140,000*
Moraviantown First Nation	Will construct a natural gas distribution pipeline to connect homes and businesses along Norton Line, Knoll Road, School House Road, Lunaapeew Road, and Littlejohn Road/Corn Plant Road near Chatham-Kent, serving the Delaware Nation of Moravian Indian Reserve No. 47.	\$311,000

Filed: 2019	9-10-17, EB-2019-0187, Exhibit B, Tab 2, Schedule 15, Page	6 of 6 Filed: EE	2018-05-07 3-2018-0142
North Shore and Peninsula Roads	Will construct a natural gas pipeline to connect homes and businesses located within the City of North Bay.	\$8,667,000*	Exhibit A Tab 1 Schedule 2 Page 6 of 6
Saugeen First Nation	Will construct a natural gas pipeline to connect homes and businesses located in the Chippewa Hill community of Saugeen First Nation.	\$1,802,000*	
Scugog Island	Will construct a reinforcement and distribution pipeline to connect homes and businesses located on Scugog Island.	\$6,324,000*	
South Bruce	The project will construct a natural gas pipeline to connect homes and businesses in the municipalities of Arran- Elderslie and Kincardine as well as the Township of Huron- Kinloss.	Up to \$27,733,000*	
Chatham-Kent Rural Pipeline Expansion	Will construct two transmission pipelines as well as supporting distribution mains and individual customer stations to immediately connect five local agricultural businesses, while establishing infrastructure that can help to meet growing energy demand within the local agri-food cluster.	\$8,000,000*	
Natural Gas Access for Northern Mining Operation	Will modify an existing natural gas station and construct a new distribution pipeline as well as a customer metering station to connect the Taylor Mine site of Kirkland Lake Gold.	\$1,600,000*	

*Pending Ontario Energy Board (OEB) approval for Leave to Construct

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Ministry of Infrastructure

Infrastructure Policy Division

777 Bay Street, 4th Floor, Suite 425 Toronto, Ontario M5G 2E5

Ministère de l'Infrastructure

Division des politiques infrastructurelles

777, rue Bay, 4 étage, Suite 425 Toronto (Ontario) M5G 2E5



Filed: 2019-10-17

Our File: UNG-NGGP2017

September 26, 2018

Ms. Sarah Van Der Paelt Vice President Sales, Marketing and Customer Care Union Gas Ltd. 50 Keil Drive North Chatham, Ontario N7M 5M1 <u>svanderpaelt@uniongas.com</u>

Dear Ms. Van Der Paelt:

I am writing to inform you that the Province is moving forward with a new policy approach for the expansion of natural gas, and funding for the Natural Gas Grant Program will be reallocated to other areas.

The Province will continue to honour the Transfer Payment Agreement executed for the following project:

Project Title	Maximum Provincial
	Contribution
Moraviantown First Nation Commercial Area	\$311,467.00

However, the Province will not be executing any new Transfer Payment Agreements under the Natural Gas Grant Program. Consequently, we will not be providing any funding for the following projects:

Project Title
Chippewa of the Thames First Nation
North Shore and Peninsula Roads
Saugeen First Nation
Chatham-Kent Rural Pipeline Expansion
Natural Gas Access Northern Mining Operation

Tab 2 The Province is considering how to address the ongoing demand for natural gas infrastructure in Page 2 of 2 the most efficient and effective way possible. The Province has introduced Bill 32, the proposed Access to Natural Gas Act, 2018. If passed, this legislation would enable the creation of a Natural Gas Expansion Support Program to facilitate the expansion of natural gas in Ontario. The proposed program would collect a small amount per month from natural gas customers throughout the province to support natural gas expansion. It is also intended that the Ontario Energy Board would continue to play its important role regarding any necessary approvals that are required in relation to projects related to natural gas expansion.

Filed: 2019-10-17 EB-2019-0187 Exhibit B

Exact details about the program, including the rules for calculating the charge and which customers would be eligible to receive support would be set out in regulations, if the legislation is passed. More information about the proposed program is anticipated to be forthcoming in the near future.

Should you have any questions regarding current projects, please do not hesitate to call 1-844-357-0725 or email nggp@infrastructureontario.ca.

Sincerely,

Julia Danos Director, Intergovernmental Policy Branch Ministry of Infrastructure

Mr. Jeff O'Krucky, Director, New Business C: Mr. Jeff Hodgins, Manager, Business Development

Filed: 2019-10-17 EB-2019-0187 Exhibit B Tab 2 Schedule 17 Page 1 of 2

Ontario Energy Board P.O. Box 2319 27th Floor 2300 Yonge Street Toronto ON M4P 1E4 Telephone: 416- 481-1967 Facsimile: 416- 440-7656 Toll free: 1-888-632-6273 Commission de l'énergie de l'Ontario C.P. 2319 27e étage 2300, rue Yonge Toronto ON M4P 1E4 Téléphone: 416-481-1967 Télécopieur: 416- 440-7656 Numéro sans frais: 1-888-632-6273



BY E-MAIL

November 29, 2018

Karen Hockin Manager, Regulatory Initiatives Union Gas Limited P.O. Box 2001 50 Keil Drive North Chatham, Ontario N7M 5M1 khockin@uniongas.com

Dear Ms. Hockin:

Re: Union Gas Limited Applications for 2019 Community Expansion Project (EB-2018-0142), Chatham-Kent Rural Project (EB-2018-0188) and Taylor Mine Project (EB-2018-0189)

This letter is to advise Union Gas Limited (Union Gas) that the Ontario Energy Board (OEB) is placing into abeyance the above-noted applications for the 2019 Community Expansion, Chatham-Kent Rural and Taylor Mine projects.

Union Gas filed an application for the 2019 Community Expansion project on May 8, 2018, and applications for the latter two projects on June 5, 2018. Each of the applications specifically refers to, and is underpinned by, funding under the Ontario Ministry of Infrastructure's Natural Gas Grant Program (NGGP).

On October 9, 2018, Union Gas filed a letter with the OEB stating that it had been informed by the Ministry of Infrastructure that NGGP funding was no longer available for the three projects. Union Gas also noted that the Province has introduced Bill 32, the proposed *Access to Natural Gas Act, 2018*, which (if passed) would enable the expansion of natural gas to additional communities in Ontario.

Union Gas has requested that the OEB hold the 2019 Community Expansion project application in abeyance until such time as the proposed *Access to Natural Gas Act, 2018* and associated regulations are finalized. However, Union Gas has also requested

that the OEB proceed with issuance of Notice for the Chatham-Kent Rural and Taylor Mine projects, and noted that it was continuing to work with the customers for these projects to look for solutions to move the projects forward absent the original NGGP funding. The OEB is also in receipt of correspondence from three interested parties all similarly requesting that the OEB proceed with issuance of Notice for the Chatham-Kent Rural project, and each noting that contractual and financial commitments have been made in reliance on a November 1, 2019 in-service date.

The OEB recognizes the importance of the timing of any necessary OEB approvals for Union Gas' implementation plans. However, given that the applications as filed are currently underpinned by funding that will no longer be available under the NGGP, it appears that the applications cannot proceed as filed. The OEB will therefore hold each above-noted application in abeyance until such time as it is either withdrawn or amended to enable issuance of a Notice of Hearing that accurately reflects the underpinnings of the application. The OEB is committed to resuming the processing of any amended and complete applications in an expeditious manner.

Yours truly,

Original signed by

Rudra Mukherji Associate Registrar Office of the Registrar