

November 2, 2018

BY RESS & Courier

Ms. Kirsten Walli
Board Secretary
Ontario Energy Board
Suite 2700, 2300 Yonge Street
Toronto, Ontario
M4P 1E4

Dear Ms. Walli:

**Re: Union Gas Limited (“Union”)
2018 Storage Enhancement (Bickford) Project
Board File # EB-2017-0363**

Pursuant to Condition 6.(a) i-v. of the Board’s Conditions of Approval for the above-noted project, enclosed is the Post Construction Report.

Sincerely,

Shelley Bechard
Administrative Analyst, Regulatory Projects

cc: Z. Crnojacki
N. Marconi
Regulatory Library

2018 STORAGE ENHANCEMENT PROJECT

POST CONSTRUCTION REPORT EB-2017-0363

**Prepared By: Union Gas Limited
Environmental Planning
November 2018**

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1.0 INTRODUCTION

This Post Construction Report is provided in compliance with the Ontario Energy Board (OEB) Order EB-2017-0363 granting Union Gas Limited (Union) approval to allow Union to increase deliverability of the Bickford Natural Gas Designated Storage Pool (Bickford Pool) located in the Township of St. Clair in Lambton County (2018 Storage Enhancement Project). To increase the deliverability in the Bickford Pool, Union applied to the OEB for the following:

- A favourable report to the Ministry of Natural Resources and Forestry (MNRF) recommending that the licences to drill three new injection/withdrawal (IW) wells be issued pursuant to section 40(1) of the *Ontario Energy Board Act, 1998* (OEB Act).
- An order for leave to construct approximately 530 metres of 12-inch diameter natural gas pipelines within the Bickford Pool pursuant to section 90(1) of the OEB Act.

The requirements for and details of this report are outlined in the specific conditions issued by the OEB in its Decision and Order dated March 22, 2018 and as listed below. There are two separate sets of conditions issued by the OEB (Conditions of Licence – Well Drilling and Operation and Pipelines Leave to Construct – Conditions of Approval). The complete Conditions of Approval can be found in Appendix B. The Conditions of Approval addressed in this report are as follows:

Conditions of Licence – Well Drilling and Operation

Condition 1

Union Gas Limited (Union) shall rely on the evidence filed with the OEB in the EB-2017-0363 proceeding and comply with applicable laws, regulations and codes pertaining to the construction of the Proposed Wells.

Condition 3

Union shall construct the facilities and restore the land in accordance with its Application and evidence given to the OEB, except as modified by this licence and these Conditions.

Condition 4

Union shall ensure that the movement of equipment is carried out in compliance with all procedures filed with the OEB, and as follows:

- i) Union shall make reasonable efforts to keep the affected landowner as well as adjacent landowners and their respective tenant farmers, or their designated representatives, informed of its plans and construction activities; and
- ii) the installation of facilities and construction shall be coordinated so as to minimize disruption of agricultural land and agricultural activities.

Condition 5

Union shall, subject to the recommendation by an independent tile contractor and subject to the landowners approval, construct upstream and downstream drainage headers adjacent to the drilling area and access roads that cross existing systematic drainage tiles, prior to the delivery of heavy equipment, so that continual drainage will be maintained.

Condition 6

Both during and after construction, Union shall monitor the impacts of construction, and shall file with the OEB one paper copy and one electronic (searchable PDF) version of each of the following reports:

- a) a post construction report, within three months of the in-service date, which shall:
 - i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 1;
 - ii. describe any impacts and outstanding concerns identified during construction;
 - iii. describe the actions taken or planned to be taken to prevent or mitigate any identified impacts of construction;
 - iv. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions; and

- v. provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licenses, and certificates required to construct, operate and maintain the proposed project.
- b) a final monitoring report, no later than fifteen months after the in-service date, or, where the deadline falls between December 1 and May 31, the following June 1, which shall:
 - i. provide a certification, by a senior executive of the company, of Union adherence to Condition 1;
 - ii. describe the condition of any rehabilitated land;
 - iii. describe the effectiveness of any actions taken to prevent or mitigate any identified impacts of construction;
 - iv. include the results of analyses and monitoring programs and any recommendations arising therefrom; and
 - v. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions.

Pipelines Leave to Construct – Conditions of Approval

Condition 1

Union Gas Limited (Union) shall construct the facilities and restore the land in accordance with the Board's Decision and Order in EB-2017-0363 and these Conditions of Approval.

Condition 3

Union shall implement all the recommendations of the Environmental Protection Plan filed in the proceeding, and all the recommendations and directives identified by the Ontario Pipeline Coordinating Committee review.

Condition 4

Union shall advise the OEB of any proposed change to OEB-approved construction or restoration procedures. Except in an emergency, Union shall not make any such change without prior notice to and written approval of the OEB. In the event of an emergency, the OEB shall be informed immediately after the fact.

Condition 5

Both during and after construction, Union shall monitor the impacts of construction, and shall file with the OEB one paper copy and one electronic (searchable PDF) version of each of the following reports:

- a) a post construction report, within three months of the in-service date, which shall:
 - i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 1;
 - ii. describe any impacts and outstanding concerns identified during construction;
 - iii. describe the actions taken or planned to be taken to prevent or mitigate any identified impacts of construction;
 - iv. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions; and
 - v. provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licenses, and certificates required to construct, operate and maintain the proposed project.

- b) a final monitoring report, no later than fifteen months after the in-service date, or, where the deadline falls between December 1 and May 31, the following June 1, which shall:
 - i. provide a certification, by a senior executive of the company, of Union adherence to Condition 3;
 - ii. describe the condition of any rehabilitated land;
 - iii. describe the effectiveness of any actions taken to prevent or mitigate any identified impacts of construction;
 - iv. include the results of analyses and monitoring programs and any recommendations arising therefrom; and
 - v. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions.

2.0 BACKGROUND

Union was granted approval to construct the Project on March 22, 2018. Construction was initiated on July 9, 2018 and the pipeline was placed into service on August 15, 2018 which completed construction. Cleanup and land restoration is ongoing and will be completed by 2018 year end.

The proposed well drilling, pipeline installations and associated works in the Bickford Pool occurred on Lot 6, Concession 12, Township of St. Clair in Lambton County. Please see Appendix A for mapping of the Project Area.

Drilling of the wells and installation of the pipelines did not require any additional land rights or agreements as Union owns the land where the construction activities were located.

The main activities of the Project progressed as follows:

- Tree and vegetation clearing
- Construction of the all-weather access roads and drilling pads
- Drilling the new IW wells
- Connecting the new IW wells to Union's existing gathering system with the installation of new 12 inch pipelines

Union will return to the right-of-way in spring 2019 to perform a general overview to ensure clean-up and restoration measures were successful and all disturbed areas are stable and re-vegetated. Any areas that require additional restoration measures will be addressed as required.

3.0 POTENTIAL IMPACTS AND MITIGATION

3.1 Conditions of Licence – Well Drilling and Operation

3.1.1 Condition 1

Union Gas Limited (Union) shall rely on the evidence filed with the OEB in the EB-2017-0363 proceeding and comply with applicable laws, regulations and codes pertaining to the construction of the Proposed Wells.

Union relied on the evidence filed with the OEB in EB-2017-0363 proceeding and complied with applicable laws, regulations and codes pertaining to the construction of the proposed wells.

3.1.2 Condition 3

Union shall construct the facilities and restore the land in accordance with its Application and evidence given to the OEB, except as modified by this licence and these Conditions.

Union constructed the facilities and restored the land in accordance with the Board's Decision and Order in EB-2017-0363 and the Conditions of Approval.

3.1.3 Condition 4

Union shall ensure that the movement of equipment is carried out in compliance with all procedures filed with the OEB, and as follows:

- i) Union shall make reasonable efforts to keep the affected landowner as well as adjacent landowners and their respective tenant farmers, or their designated representatives, informed of its plans and construction activities; and*

Union's Lands Relations Agent kept the adjacent landowners and their respective tenant farmers/designated representatives informed of its plans and construction activities and was available by phone throughout the duration of construction. As Union owns the land where construction occurred there were no directly affected landowners.

- ii) the installation of facilities and construction shall be coordinated so as to minimize disruption of agricultural land and agricultural activities.*

Construction did not occur on any agricultural land therefore agricultural land and agricultural activities were not disrupted.

3.1.4 Condition 5

Union shall, subject to the recommendation by an independent tile contractor and subject to the landowners approval, construct upstream and downstream drainage headers adjacent to the drilling area and access roads that cross existing systematic drainage tiles, prior to the delivery of heavy equipment, so that continual drainage will be maintained.

Construction did not occur on any agricultural land therefore the construction of upstream and downstream drainage headers were not necessary.

3.1.5 Condition 6

Both during and after construction, Union shall monitor the impacts of construction and shall file with the OEB one paper copy and one electronic (searchable PDF) version of each of the following reports:

- a) a post construction report, within three months of the in-service date, which shall:*
 - i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 1;*

One paper copy and one electronic (searchable PDF) version of this Post Construction Report are provided to the Board. This report is certified by Mike Shannon, P. Eng., Vice President, Distribution Operations, that Union has relied on the evidence filed with the OEB in EB-2017-0363 proceeding and complied with applicable laws, regulations and codes pertaining to the construction of the proposed wells and is confirmed by the signed letter of approval found in Appendix D.

- ii. describe any impacts and outstanding concerns identified during construction;*

Table 1 summarizes the impacts identified during construction and the measures implemented to mitigate such impacts. There are no outstanding concerns as a result of construction.

- iii. *describe the actions taken or planned to be taken to prevent or mitigate any identified impacts of construction;*

Table 1 summarizes the actions taken or planned to be taken to prevent or mitigate any identified impacts of construction.

- iv. *Include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions; and*

Union's Complaint Tracking System, which identifies the current status of complaints received as a result of pipeline construction, was in effect. A complaint is identified as a concern raised by a landowner or member of the public that has not been resolved to their satisfaction within three (3) working days.

One complaint was received from a landowner on August 9, 2018 and was resolved by August 23, 2018. Please see Appendix C for a summary of the complaint.

Union will continue to monitor the state of the land and will address any landowner or public concerns should they arise.

- v. *provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licenses, and certificates required to construct, operate and maintain the proposed project.*

Mike Shannon, P. Eng., Vice President, Distribution Operations, has certified that the company has obtained all other approvals, permits, licences, and certificates required to construct, operate and maintain the project and is confirmed by the signed letter of approval in Appendix D.

Union obtained the following environmental permits for construction:

Ministry of Tourism, Culture and Sport

- Archaeology clearance under the MTCS File Number 0007404

Project Information Form Number	Stage	Location
P316-0339-2017	1 - 2	Project Area

Ministry of Natural Resources and Forestry

- *Endangered Species Act, 2007* clearance

- b) *a final monitoring report, no later than 15 months after the in-service date, or, where the deadline falls between December 1 and May 31, the following June 1, which shall:*
- provide a certification, by a senior executive of the company, of Union adherence to Condition 3;*
 - describe the condition of any rehabilitated land;*
 - describe the effectiveness of any actions taken to prevent or mitigate any identified impacts of construction;*
 - include the results of analyses and monitoring programs and any recommendations arising therefrom; and*
 - include a log of all complaints received by Union Gas, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions.*

One paper copy and one electronic (searchable PDF) version of the final monitoring report will be filed with the Board no later than fifteen months after the in-service date.

3.2 Pipelines Leave to Construct – Conditions of Approval

3.2.1 Condition 1

Union Gas Limited (Union) shall construct the facilities and restore the land in accordance with the Board's Decision and Order in EB-2017-0363 and these Conditions of Approval.

Union constructed the facilities and restored the land in accordance with the Board's Decision and Order in EB-2017-0363 and the Conditions of Approval.

3.2.2 Condition 3

Union shall implement all the recommendations of the Environmental Protection Plan filed in the proceeding, and all the recommendations and directives identified by the Ontario Pipeline Coordinating Committee review.

Union implemented all the recommendations of the Environmental Protection Plan filed in the proceeding, and all the recommendations and directives identified by the Ontario Pipeline Coordinating Committee review. Please refer to Table 1 to confirm Union's adherence to the recommendations and mitigation measures identified in the Environmental Protection Plan.

3.2.3 Condition 4

Union shall advise the OEB of any proposed change to OEB-approved construction or restoration procedures. Except in an emergency, Union shall not make any such change without prior notice to and written approval of the OEB. In the event of an emergency, the OEB shall be informed immediately after the fact.

There were no changes to OEB-approved construction or restoration procedures.

3.2.4 Condition 5

Both during and after construction, Union shall monitor the impacts of construction, and shall file with the OEB one paper copy and one electronic (searchable PDF) version of each of the following reports:

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

- i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 1;*

One paper copy and one electronic (searchable PDF) version of this Post Construction Report are provided to the Board. This report is certified by Mike Shannon, P. Eng., Vice President, Distribution Operations, that Union has constructed the facilities and restored the land in accordance with the OEB's Decision and Order in EB-2017-0363 and these conditions of Approval and is confirmed by the signed letter of approval found in Appendix D.

- ii. describe any impacts and outstanding concerns identified during construction;*

Table 1 summarizes the impacts identified during construction and the measures implemented to mitigate such impacts. There are no outstanding concerns as a result of construction.

- iii. describe the actions taken or planned to be taken to prevent or mitigate any identified impacts of construction;*

Table 1 summarizes the actions taken or planned to be taken to prevent or mitigate any identified impacts of construction.

- iv. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions; and*

Union's Complaint Tracking System, which identifies the current status of complaints received as a result of pipeline construction, was in effect. A complaint is identified as a concern raised by a landowner or member of the

public that has not been resolved to their satisfaction within three (3) working days.

One complaint was received from a landowner on August 9, 2018 and was resolved by August 23, 2018. Please see Appendix C for a summary of the complaint.

Union will continue to monitor the state of the land and will address any landowner or public concerns should they arise.

Union's summary of landowner complaints are presented in Appendix D.

- v. *provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licenses, and certificates required to construct, operate and maintain the proposed project.*

Mike Shannon, P. Eng., Vice President, Distribution Operations, has certified that the company has obtained all other approvals, permits, licences, and certificates required to construct, operate and maintain the project and is confirmed by the signed letter of approval in Appendix D.

Please see section 3.1.5 (v) for the environmental permits obtained for the Project.

4.0 SUMMARY

This Post Construction Report has been prepared as per conditions in the Board Decision EB-2017-0363. The report provides confirmation that Union has complied with the Conditions of Approval, and provides a description of the identified impacts of construction and the actions taken to mitigate such impacts. It is anticipated that these actions will effectively eliminate any long-term impacts to the environment.

Clean-up and land restoration of the work areas is ongoing and will be completed by 2018 year end.

A Final Monitoring Report will be prepared to evaluate the success of the restoration measures and identify any areas that require additional restoration, if necessary.

Table 1

Potential Impacts and Mitigation Measures

Table 1: Potential Impacts and Mitigation Measures

Issue	Potential Impact	Mitigation Measure
Access Roads	Vehicular traffic during and after drilling and pipeline installation (i.e. well operations and maintenance vehicles) may cause soil rutting, compaction or mixing, particularly if soils are wet.	<ul style="list-style-type: none">- Existing laneways were utilized where possible.- Access roads and granular work areas were limited in size to the greatest extent possible.- All traffic was limited to the access roads or granular work areas to the greatest extent possible.- Culverts were used in the construction of access roads to ensure existing drainage patterns were maintained where required.- Geotextile fabric was used for access roads and work areas to provide additional stability, minimize compaction and eliminate soil mixing with granular material.
Noise	Noise from the drilling rig, pipeline equipment and/or service vehicles may disrupt nearby residents.	<ul style="list-style-type: none">- Noise was controlled to the greatest extent possible to minimize the disruption to nearby residents.- All equipment was properly muffled.- Adjacent landowners were notified of the drilling schedule and were provided with contact information for Union Gas personnel in the event that they had any issues.
Site Restoration	Improper site restoration may permanently affect soil productivity and vegetative growth.	<ul style="list-style-type: none">- Areas disrupted by drilling and pipeline construction were restored to pre-construction conditions.- A native seed mixture was used on disturbed areas to ensure vegetative growth.
Fuel Storage and Handling	Improper fuel storage and handling may cause spilling and possible soil contamination.	<ul style="list-style-type: none">- Fuel was not stored near watercourses (i.e. within 50 m).- Fuel storage areas were clearly marked.- Containment dykes and protective plastic ground matting were used in fuel storage areas to protect against spillage and leakage.- Spill clean-up materials were stored

Table 1: Potential Impacts and Mitigation Measures

Issue	Potential Impact	Mitigation Measure
		onsite and were available in the event of a spill. If necessary, spills or leaks were to be reported to the appropriate authority immediately (Ministry of the Environment, Conservation and Parks Spills Action Centre at 1-800-268-6060).
Liquid and Solid Waste	Drilling fluids, solid wastes and lubricants must be properly handled, stored and disposed of to avoid the possible contamination of surrounding soil or water.	<ul style="list-style-type: none">- Liquid and solid wastes were properly stored, handled and disposed of in an approved location.- Drilling fluids were properly contained in waste tanks and disposed of after drilling in an appropriate location.- The level of drilling fluids was frequently monitored to avoid possible overflows of the tanks.
Landowner Concerns	Disruption to landowners and tenants.	<ul style="list-style-type: none">- Union provided the adjacent landowners and tenants with the telephone numbers of Company personnel.- A Landowner Relations Program was established to track complaints during construction.
Roadside Ditches	Water quality concerns.	<ul style="list-style-type: none">- Ditches were returned to pre-construction conditions or better as quickly as possible.
Nuisance Dust	Disturbance to landowners and tenants.	<ul style="list-style-type: none">- Dust was controlled as required.
Underground Utilities	Disruption of services.	<ul style="list-style-type: none">- Locates were obtained from all utilities.- Any damages to utilities were repaired as soon as possible.
Archaeology, Cultural Heritage Landscapes and Built Heritage Resources	Disturbance of heritage resources.	<ul style="list-style-type: none">- An Archaeological Assessment was completed prior to construction.- Direction was given to stop construction if artifacts were encountered and to notify the Ministry of Tourism, Culture and Sport.

Table 1: Potential Impacts and Mitigation Measures

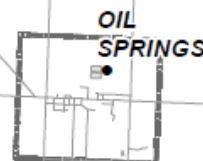
Issue	Potential Impact	Mitigation Measure
		<ul style="list-style-type: none">- A Cultural Heritage consultant was retained to determine if impacts to cultural heritage landscapes and/or built heritage resources were anticipated and to develop a mitigation plan if required.
Water Wells	Disruption to water supply.	<ul style="list-style-type: none">- If water quality/quantity concerns occurred as a result of construction activities, the Company would supply potable water until the situation was corrected.- Union implemented its standard well monitoring program.
Trees	Damage to trees and disturbance to wildlife.	<ul style="list-style-type: none">- Trees were removed outside of the avian nesting window.- Union Gas's Tree Replacement Program was implemented where trees removed during construction were replaced at a 2:1 area basis at 1000 seedlings/acre.- The majority of the trees have been replanted in the Township of St. Clair by the St. Clair Region Conservation Authority and the remainder will be replanted in the Township during spring 2019.
Natural Areas	Sedimentation run-off.	<ul style="list-style-type: none">- Sediment barriers such as straw bales/sediment fencing were used where there was potential for runoff.
Vegetative cover	Loss of vegetative cover leading to soil erosion.	<ul style="list-style-type: none">- Cover was restored by means of seeding as soon as possible.
Contaminated Soils	Dealing with contaminated materials. Public safety issue.	<ul style="list-style-type: none">- No contaminated soils were anticipated, however; if suspect soils were uncovered, direction was provided to stop work immediately, contact the Union Environmental Department, and clean up contaminated material following Company and Ministry of the

Table 1: Potential Impacts and Mitigation Measures		
Issue	Potential Impact	Mitigation Measure
		Environment, Conservation and Parks procedures.

Appendix A

General Location Map

Union Gas Limited – 2018 Bickford Pool Storage Project



USA

SOMBRA

Wilkesport Line

Bickford

Smith Line

Holt Line

Tulloch Line

Kerr Line

Charlemont Line

Whitebread Line

WALLACEBURG

Baseline

Township Of St. Clair
Township Of Dawn-Euphemia

Township Of Enniskillen
Township Of Dawn-Euphemia

Wilkesport Line

LOT 6,
CON 12

LOT 7,
CON 12

LOT 8,
CON 12

LOT 5,
CON 12

LOT 4,
CON 12

Bentpath Line

LOT 7,
CON 11

LOT 8,
CON 11

LOT 6,
CON 11

LOT 5,
CON 11

LOT 4,
CON 11

0 250 500 m

Legend

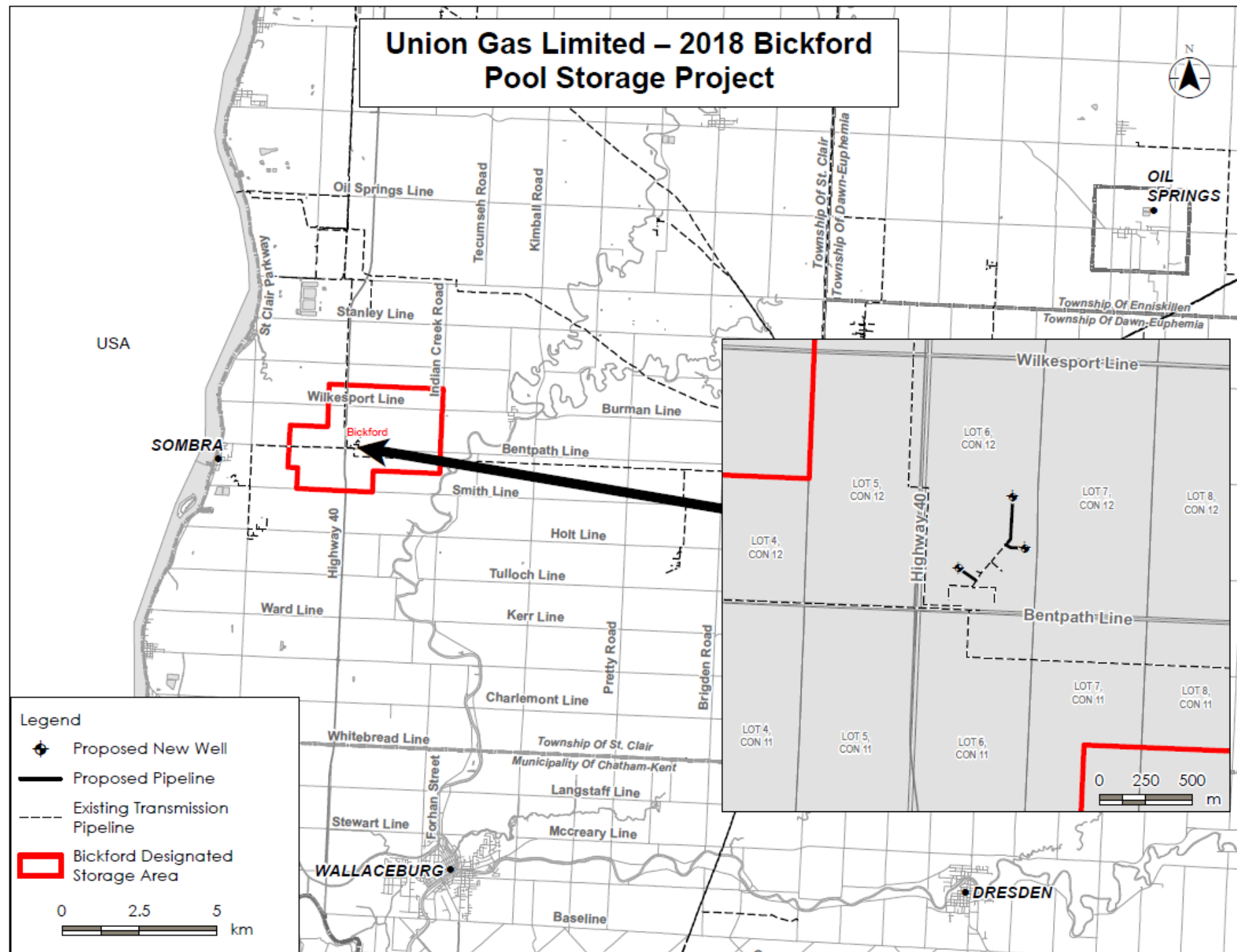
Proposed New Well

Proposed Pipeline

Existing Transmission Pipeline

Bickford Designated Storage Area

0 2.5 5 km



Appendix B

Conditions of Approval

**Union Gas Limited
EB-2017-0363
Conditions of Licence - Well Drilling and
Operation**

1. Union Gas Limited (Union) shall rely on the evidence filed with the OEB in the EB-2017-0363 proceeding and comply with applicable laws, regulations and codes pertaining to the construction of the Proposed Wells.
2. The authority granted under this licence to Union is not transferable to another party without leave of the OEB. For the purpose of this condition another party is any party except Union Gas Limited.
3. Union shall construct the facilities and restore the land in accordance with its Application and evidence given to the OEB, except as modified by this licence and these Conditions.
4. Union shall ensure that the movement of equipment is carried out in compliance with all procedures filed with the OEB, and as follows:
 - i) Union shall make reasonable efforts to keep the affected landowner as well as adjacent landowners and their respective tenant farmers, or their designated representatives, informed of its plans and construction activities; and
 - ii) the installation of facilities and construction shall be coordinated so as to minimize disruption of agricultural land and agricultural activities.
5. Union shall, subject to the recommendation by an independent tile contractor and subject to the landowners' approval, construct upstream and downstream drainage headers adjacent to the drilling area and access roads that cross existing systematic drainage tiles, prior to the delivery of heavy equipment, so that continual drainage will be maintained.
6. Both during and after construction, Union shall monitor the impacts of construction, and shall file with the OEB one paper copy and one electronic (searchable PDF) version of each of the following reports:

-
- a) a post construction report, within three months of the in-service date, which shall:
- i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 1;
 - ii. describe any impacts and outstanding concerns identified during construction;
 - iii. describe the actions taken or planned to be taken to prevent or mitigate any identified impacts of construction;
 - iv. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions; and
 - v. provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licences, and certificates required to construct, operate and maintain the proposed project.
- b) a final monitoring report, no later than fifteen months after the in-service date, or, where the deadline falls between December 1 and May 31, the following June 1, which shall:
- i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 1;
 - ii. describe the condition of any rehabilitated land;
 - iii. describe the effectiveness of any actions taken to prevent or mitigate any identified impacts construction;

- iv. include the results of analyses and monitoring programs and any recommendations arising therefrom; and
 - v. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions.
- 7. For the purposes of these conditions, conformity of Union with CSA Z341 shall be to the satisfaction of the Ministry of Natural Resources and Forestry.

**Leave to Construct Conditions of Approval
Application under Section 90 of the OEB Act
Union Gas Limited
EB-2017-0363**

1. Union Gas Limited (Union) shall construct the facilities and restore the land in accordance with the Board's Decision and Order in EB-2017-0363 and these Conditions of Approval.
2. (a) Authorization for leave to construct shall terminate 12 months after the decision is issued, unless construction has commenced prior to that date.

(b) Union shall give the OEB notice in writing:
 - i. of the commencement of construction, at least ten days prior to the date construction commences;
 - ii. of the planned in-service date, at least ten days prior to the date the facilities go into service;
 - iii. of the date on which construction was completed, no later than 10 days following the completion of construction; and
 - iv. of the in-service date, no later than 10 days after the facilities go into service.
3. Union shall implement all the recommendations of the Environmental Protection Plan filed in the proceeding, and all the recommendations and directives identified by the Ontario Pipeline Coordinating Committee review.
4. Union shall advise the OEB of any proposed change to OEB-approved construction or restoration procedures. Except in an emergency, Union shall not make any such change without prior notice to and written approval of the OEB. In the event of an emergency, the OEB shall be informed immediately after the fact.

-
5. Both during and after construction, Union shall monitor the impacts of construction, and shall file with the OEB one paper copy and one electronic (searchable PDF) version of each of the following reports:
- (a) a post construction report, within three months of the in-service date, which shall:
 - i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 1;
 - ii. describe any impacts and outstanding concerns identified during construction;
 - iii. describe the actions taken or planned to be taken to prevent or mitigate any identified impacts of construction;
 - iv. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions; and
 - v. provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licences, and certificates required to construct, operate and maintain the proposed project.
 - b) a final monitoring report, no later than fifteen months after the in-service date, or, where the deadline falls between December 1 and May 31, the following June 1, which shall:
 - i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 3;
 - ii. describe the condition of any rehabilitated land;

- iii. describe the effectiveness of any actions taken to prevent or mitigate any identified impacts construction;
- iv. include the results of analyses and monitoring programs and any recommendations arising therefrom; and
- v. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions.

Appendix C

Summary of Landowner Complaints

SUMMARY OF LANDOWNER COMPLAINTS

2018 Storage Enhancement Project

Date of Complaint	Property Identification Number	Complaint	Resolution	Status
09/08/2018	43403-0053	A landowner adjacent to the property where drilling took place identified a concern with noise from the project.	Union ensured that all of the noise mitigation measures identified in the Environmental Protection Plan were implemented, and that noise levels were reduced as much as practical. Union also notified all adjacent landowners prior to drilling and provided them with the names and numbers of Union personnel to call in the event that they had any issues.	Resolved – 23/08/2018

Appendix D

Executive Certifications

2018 Storage Enhancement Project

EB-2017-0363

Decision and Order

March 22, 2018

I hereby certify that Union Gas Limited has relied on the evidence filed with the OEB in EB-2017-0363 proceeding and complied with applicable laws, regulations and codes pertaining to the construction of the proposed wells, as per Condition 6 (a) (i) of the *Conditions of Licence – Well Drilling and Operations*.



Mike Shannon, P.Eng.

Vice President, Distribution Operations

2018 OCT 29

Date

Condition 6 (a) (i)

6. Both during and after construction, Union shall monitor the impacts of construction, and shall file with the OEB one paper copy and one electronic copy (searchable PDF) version of each of the following reports:
 - a) a post construction report, within three months of the in-service date, which shall:
 - i. provide certification, by a senior executive of the company, of Union's adherence to Condition 1;

Condition 1

Union Gas Limited (Union) shall rely on the evidence filed with the OEB in EB-2017-0363 proceeding and comply with the applicable laws, regulations and codes pertaining to the construction of the proposed wells.

2018 Storage Enhancement Project

EB-2017-0363

Decision and Order

March 22, 2018

I hereby certify that Union Gas Limited has obtained all other approvals, permits, licenses, and certificates required to construct, operate, and maintain the project as per Condition 6 (a) (v) of the *Conditions of Licence – Well Drilling and Operation*.



Mike Shannon, P.Eng.

Vice President, Distribution Operations

2018 OCT 29

Date

Condition 6 (a) (v)

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

2018 Storage Enhancement Project

EB-2017-0363

Decision and Order

March 22, 2018

I hereby certify that Union Gas Limited has constructed the facilities and restored the land in accordance with the OEB's Decision and Order in EB-2017-0363 and the Conditions of Approval, as per Condition 5 (a) (i) of the *Pipelines – Leave to Construct Conditions of Approval*.



Mike Shannon, P.Eng.

Vice President, Distribution Operations

2018 Oct 29

Date

Condition 5 (a) (i)

6. Both during and after construction, Union shall monitor the impacts of construction, and shall file with the OEB one paper copy and one electronic copy (searchable PDF) version of each of the following reports:
 - a) a post construction report, within three months of the in-service date, which shall:
 - i. provide certification, by a senior executive of the company, of Union's adherence to Condition 1;

Condition 1

Union Gas Limited (Union) shall construct the facilities and restore the land in accordance with the OEB's Decision and Order in EB-2017-0363 and these Conditions of Approval.

2018 Storage Enhancement Project

EB-2017-0363

Decision and Order

March 22, 2018

I hereby certify that Union Gas Limited has obtained all other approvals, permits, licenses, and certificates required to construct, operate, and maintain the project as per Condition 5 (a) (v) of the *Pipelines – Leave to Construct Conditions of Approval*.



Mike Shannon, P.Eng.

Vice President, Distribution Operations

2018 OCT 29

Date

Condition 5 (a) (v)

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

Appendix E

Photograph Inventory



1. Exclusion fencing was installed prior to construction as a measure to protect Eastern Fox Snake, a Species at Risk.



2. The exclusion fencing was maintained throughout construction to prevent harm to the Eastern Fox Snake and other wildlife species.



3. Gravel roadways were constructed to provide access to the new wells.



4. Typical well drilling set up on a temporary gravel drilling pad.



5. When well drilling is complete, the temporary gravel drilling pad is reduced in size to approximately 12 m by 12 m and the topsoil is replaced around it and seeded.



6. The new welded pipe is strung out next to the trench prior to lowering in.



7. The new pipe was connected to the new wells and tied-in to the existing gathering system.



8. Once the new pipeline is installed the topsoil is spread across the work area and seeded.