

February 9, 2017

BY RESS & Courier

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

Dear Ms. Walli:

**Re: Union Gas Limited (“Union”)
Panhandle Relocation Project
Board File # EB-2015-0366**

Pursuant to Condition 5 (a) i. – v. of the Board’s Conditions of Approval for the above-noted project, please find a post construction report.

Sincerely,

[original signed by]

Shelley Bechard
Administrative Analyst, Regulatory Projects

cc: Zora Crnojacki
Nancy Marconi
Reg Library

PANHANDLE RELOCATION PROJECT

POST CONSTRUCTION REPORT

EB-2015-0366

Prepared by: Union Gas Limited
Environmental Planning
January 2017

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1.0 INTRODUCTION

This Interim Monitoring Report is provided in compliance with the Ontario Energy Board (“Board”) Order EB-2015-0366 granting Union Gas Limited (“Union”) “Leave to Construct” two pipelines in the City of Windsor in the Province of Ontario, (the “Project”) as follows:

- a) Approximately 1470 meters of NPS12 hydrocarbon (natural gas) pipeline (“Proposed Pipeline”) to connect to West Windsor Power Station (“WWP”) to replace approximately 1860 metres of existing NPS12 hydrocarbon (natural gas) pipeline, and
- b) Approximately 1710 meters of NPS20 hydrocarbon (natural gas) pipeline (“Proposed Pipeline”) to connect to Brighton Beach Power Station (“Shell – BBPS” or “BBPS”) to replace approximately 1500 metres of existing NPS16 hydrocarbon (natural gas) pipeline, collectively the (“Proposed Pipelines”).

A map of the pipeline route is included in Appendix A.

The requirements for and details of this report are outlined in the specific conditions issued by the Board in its Order dated April 28, 2016 as listed below. The Conditions of Approval can be found in Appendix B.

The requirements for and details of this report are outlined in the specific conditions issued by the Board in its Order dated April 28, 2016 and as listed below. The complete Conditions of Approval can be found in Appendix B1. The Conditions of Approval addressed in this report are as follows:

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-2015-0366 and these Conditions of Approval.

Condition 3

Union shall implement all the recommendations of the Environmental Report 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, 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 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 Panhandle Relocation Project on April 28, 2016. Construction was initiated on June 6, 2016 with the pipeline placed into service on November 12, 2016 and cleanup for the year completed on December 22, 2016. Union constructed new NPS12 and NPS 20 lines as part of the DRIC Early Works site to maintain service to two local area power generation facilities and to service eventual bridge facilities. The project progressed in the following order of operations: topsoil removal, stringing, welding, joint coating, trenching, lowering-in, tie-ins, and backfilling, testing and clean-up. All abandoned pipe was abandoned as per TSSA guidelines.

Construction began with the installation of the NPS 12 line to WWP followed by the installation of the NPS 20 line to BBPS. The construction schedule and customer tie-ins were coordinated

with primary contractor for the Gordie Howe International Crossing Customs Plaza Early Work (AMICO) as well as BBPS and WWP.

3.0 POTENTIAL IMPACTS AND MITIGATION

3.1 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-2015-0366 and these Conditions of Approval.

Union has complied with all conditions imposed by the Board during construction of the pipeline and has restored the land according to the evidence in support of its application and the requirements of the Windsor Detroit Bridge Authority (WDBA).

3.2 Condition 3

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

Union has implemented all recommendations and mitigation measures outlined in the Environmental Study Report (ER) along with all directives identified by the OPCC and complied with all environmental compliances required by the WDBA.

3.3 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 construction or restoration procedures during this project.

3.4 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 Paul Rietdyk, Vice President Engineering Construction and STO, that Union has constructed the facilities and restored the land in accordance with the Board's Decision and Order in EB-2015-0366 and the Conditions of Approval and is confirmed by their signed letter of approval found in Appendix B2.

- 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;

Table 1 summarizes the construction impacts and general mitigation measures carried out during construction. All mitigation techniques used throughout construction will also be implemented during cleanup activities as required.

- 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

To date no complaints have been received by Union Gas for the Panhandle Relocation Project constructed under Board Order EB-2015-0366

- 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.

Paul Rietdyk, Vice President Engineering Construction and STO, 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 their signed letter of approval found in Appendix B2.

Union obtained the following environmental permits for construction:

Ministry of Tourism, Culture and Sport

- Archaeology clearance (**P083-0260-2015**) – Stage 1 - 2 Archaeological Report reviewed and accepted into the Ontario Public Register of Archaeological Reports

Ministry of the Environment and Climate Change (MOECC)

- Permit to Take Water – Surface and Ground Water, Permit No. 8754-A8HRGN

- 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 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

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

3.4.1 Monitoring Programs

3.4.1.1 Archaeological Assessment

Union Gas Limited retained the services of Stantec Consulting Limited to complete Archaeological Assessments for the portion of project area located outside of the WDBA lands, as Archaeological Assessment had been previously completed within the WDBA lands by the WDBA. Clearance letter were received from the Ministry of Tourism, Culture and Sport for the Stage 1 and Stage 2 Archaeological Assessments.

3.4.1.2 Soil Testing

All soils removed from the project area were tested for contamination to determine the appropriate disposal process. Soil testing was completed and reviewed by Dillon Consulting and disposed in the recommended manor.

3.4.1.3 Species at Risk (SAR)

Prior to construction, Neegan Burnside completed detailed habitat assessments and field surveys for the portion of the project located outside of the WDBA lands. During construction a Biologist from Neegan Burnside completed a Species at Risk sweep of each construction section prior to the initiation of construction in each section as required by the WDBA.

No confirmed Species at Risk were identified prior to or during construction.

3.4.1.6 Tree Removal

Tree removal was initiated on February 27th, 2016 and was completed on March 15th, 2016 avoiding avian nesting concerns tree replacement and habitat enhancements are being completed by the WDBA.

4.0 SUMMARY

This Post Construction Report has been prepared as per conditions in the Board Order EB-2015-0366. The report provides an outline of Unions' compliance with the commitments of its witnesses, the measures implemented during construction to minimize disturbance to the environment, and a description of Unions' monitoring programs. It is anticipated that these measures will effectively eliminate any long-term impacts to the environment.

A review of the pipeline route will be undertaken in the spring of 2017 to determine if any additional clean-up will be required. Should additional clean-up be required, it will be completed as soon as conditions allow in spring 2017.

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”

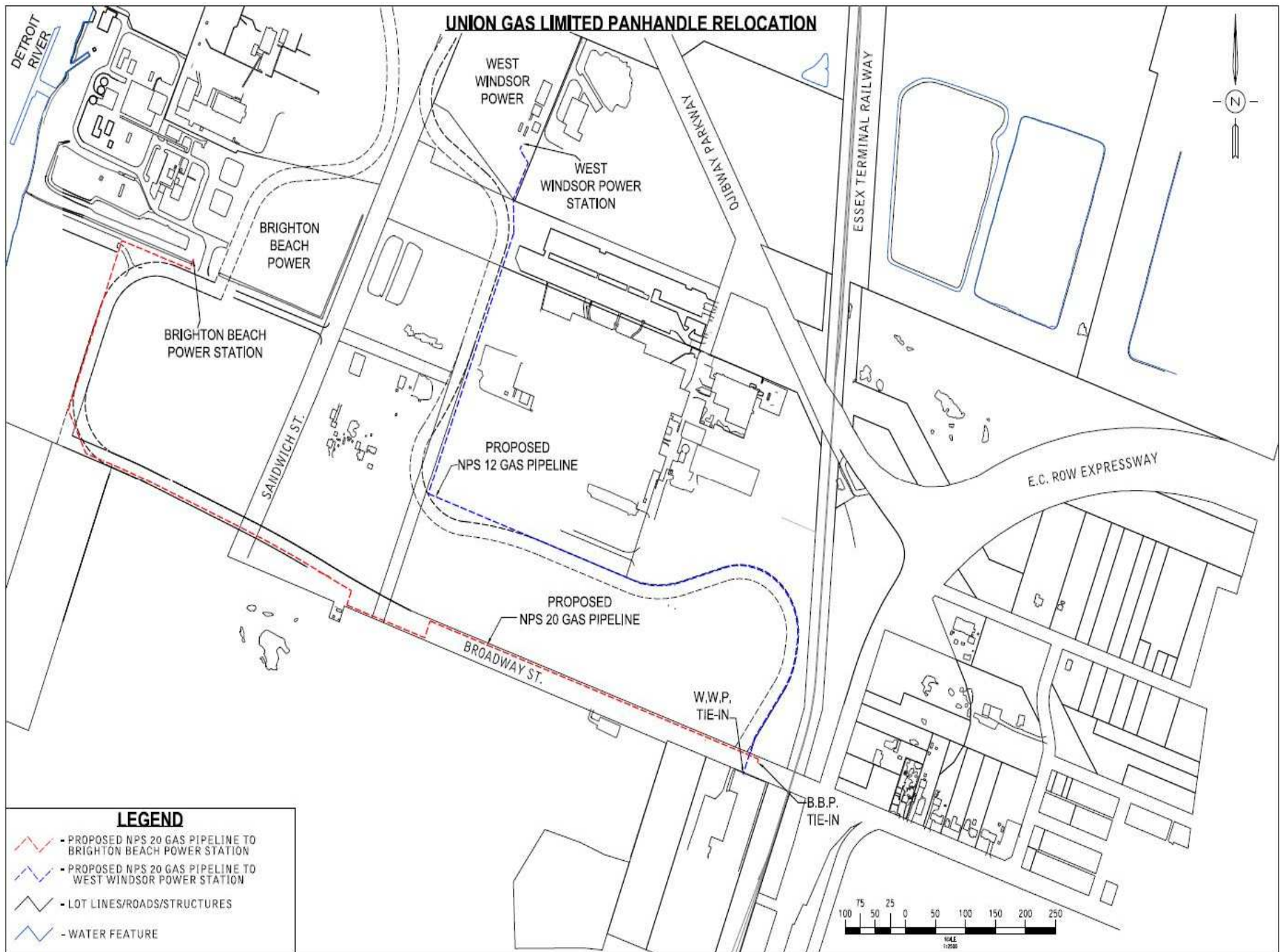
Potential Impacts and Mitigation Measures

Activity	Effects	Mitigation Measures
a) Pre-pipeline Construction	<ul style="list-style-type: none"> Pipeline construction may be disruptive to landowners, adjacent businesses and concurrent construction operations. 	<ul style="list-style-type: none"> Prior to pipeline construction, the Lands Relations Agent and Construction Superintendent met with all directly affected landowners to discuss construction and identify any concerns (i.e. tiles) that may need to be addressed, programs were implemented to limit disturbance to adjacent businesses and the construction program was staged and coordinated with AMICO's early works within the WDBA lands.
b) Access Roads	<ul style="list-style-type: none"> Vehicular traffic may cause traffic disruptions and contribute to dust production that may negatively impact adjacent businesses. 	<ul style="list-style-type: none"> Traffic control plans were created and coordinated with those used by AMICO for the Gordie Howe International Crossing Early Works. Watering of access roads was completed on an as needed bases to reduce dust production Union's construction operations
c) Clearing	<ul style="list-style-type: none"> The removal of trees 	<ul style="list-style-type: none"> The harvesting of trees was minimized as much as practical All tree clearing was done outside the migratory bird nesting season (April 1 – August 31)
d) Trenching	<ul style="list-style-type: none"> Trenching may disrupt tile drains and cause soil mixing (topsoil and subsoil mixing), which may impact soil productivity 	<ul style="list-style-type: none"> Trenching followed Specification CS-06-13 Prior to trenching, topsoil was separated from subsoil as per Specifications CS-04-13 and CS-05-13
e) Backfilling	<ul style="list-style-type: none"> Improper backfilling may cause topsoil/subsoil mixing 	<ul style="list-style-type: none"> Backfilling was completed to meet AMICO and WDBA requirements.
f) Hydrostatic Testing	<ul style="list-style-type: none"> Discharge of hydrostatic test water may cause erosion at the point of discharge 	<ul style="list-style-type: none"> Measures were used (filtration tub) to prevent erosion at the point of discharge A permit was secured from the from the Ministry of Environment and Climate Change prior to hydrostatic testing and conditions were followed A monitoring program was undertaken to ensure that water quality had remained within acceptable parameters prior to discharge.
g) Site Restoration	<ul style="list-style-type: none"> Improper site restoration may affect post construction land use 	<ul style="list-style-type: none"> Restoration followed Specifications provided by AMICO and the WDBA to support the construction of the Gordie Howe International Crossing Customs Plaza.

Activity	Effects	Mitigation Measures
h) Fuel Storage and Handling	<ul style="list-style-type: none"> Improper fuel storage and handling may cause spillage and possible contamination of soil 	<ul style="list-style-type: none"> Fuel was not stored near watercourses or wetlands (i.e. within 100 m) Fuel storage areas were clearly marked Spill clean-up material (i.e. absorbent pads) were stored on-site and available at all times
i) Liquid and Solid Waste	<ul style="list-style-type: none"> Liquid waste, solid waste, and lubricants must be properly handled, stored and disposed of to avoid potential contamination of the surrounding area 	<ul style="list-style-type: none"> Liquid and solid wastes were properly stored, handled, and disposed of at an approved location The area was cleared of all debris and litter during and after construction
j) General	i) Species at Risk	<ul style="list-style-type: none"> Snake exclusion fencing was installed prior to and maintained during construction to prevent species at risk reptiles from entering the construction area. The WDBA Species at Risk Mitigation Plan “Mitigation Plan for the Construction of the Detroit River International Crossing Canadian Plaza Lands Filed Under Section 9(1) of the Bridge to Strengthen Trade Act March 31, 2015” was followed for all activities carried out under EB-2015-0366.

Appendix A

Location Map



Appendix B1

Conditions of Approval

**Leave to Construct Conditions of
Approval
Application under Section 90 of the
OEB Act
Union Gas Limited
EB-2015-0366**

1. Union Gas Limited (Union) shall construct the facilities and restore the land in accordance with the OEB's Decision and Order in EB-2015-0366 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 Report 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 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.

Appendix B2

Executive Certification



Panhandle Relocation Project


EB-2015-0366

Decision and Order

April 28, 2016

I hereby certify Union Gas Limited has complied with the Decision and Order, Appendix B, EB-2015-0366, Section 5 (a) (i).

Jan 25th, 2017
Date


Paul Rieddyk, P.Eng.
Vice President, Engineering,
Construction, and Storage &
Transmission Operation,
Union Gas Limited

Condition 5 a) i.

- 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;

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-2015-0366 and these Conditions of Approval.



Panhandle Relocation Project

EB-2015-0366

Decision and Order

April 28, 2016

I hereby certify Union Gas Limited has complied with the Decision and Order, Appendix B, EB-2015-0366, Section 5 (a) (v).

Jan 25, 2017
Date


Paul Rietdyk, P.Eng.
Vice President, Engineering,
Construction, and Storage &
Transmission Operation,
Union Gas Limited

Condition 5 (a) (v).

- a) a post construction report, within three months of the in-service date, which shall:
- v. Provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licences, and certificates required to construct, operate and maintain the proposed project.

Appendix C

Photograph Inventory



Neegan Burnside completing a SAR survey prior to AECON working.



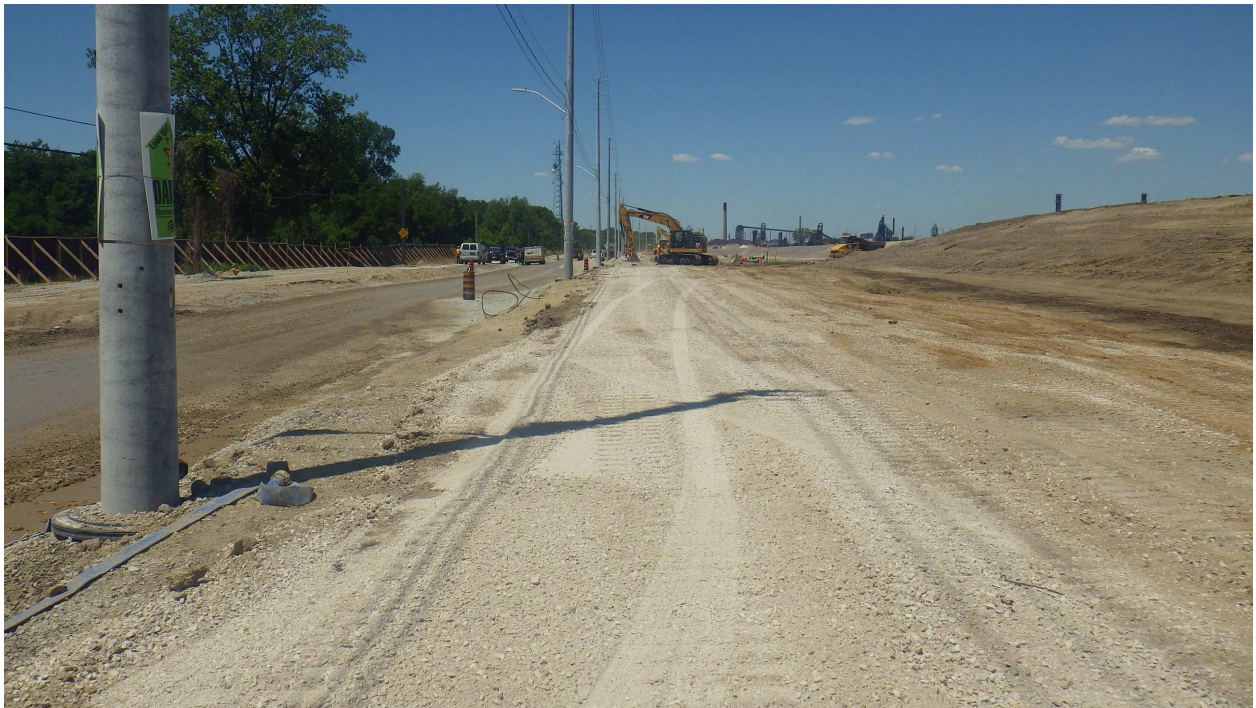
Peeling back top soil and trenching.



20" pipe lowered into trench along Broadway and sand backfilling.



Backfilled pipe along Broadway.



Pipe backfilled along Broadway.



Dillon Environmental Technician sampling stockpiled material for analytical testing.



Loading tested material in Tri Axel to transport to disposal site.



Amico water truck filling up frac tanks with water from local municipal source for hydrostatic testing.



Filtration tub used to dewater Frac tanks following the hydrostatic test.