March 2, 2017

RESS & Courier

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

Dear Ms. Walli:

Re: Union Gas Limited ("Union")
2017 Panhandle Replacement (Jefferson)
EB-2017-0118

Enclosed please find two copies of Union's Application and pre-filed evidence for the above-noted project.

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.

Yours truly,

[original signed by]

Mark Murray, J.D.
Manager, Regulatory Projects and Lands Acquisition
:sb
Attach.

cc: Zora Crnojacki
Nancy Marconi

ONTARIO ENERGY BOARD

IN THE MATTER OF The Ontario Energy Board Act, 1998, S.O. 1998, c.15, Schedule B, and in particular, s.90 thereof;

AND IN THE MATTER OF an Application by Union Gas Limited for an Order granting leave to construct a natural gas pipeline in the City of Windsor, County of Essex.

UNION GAS LIMITED

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1. Union Gas Limited (the "Applicant") hereby applies to the Ontario Energy Board (the "OEB"), pursuant to Section 90 (1) of the Ontario Energy Board Act (the "Act"), for an Order granting leave to construct approximately 600 meters of NPS16 pipeline ("Proposed Pipeline").

2. Attached hereto as Schedule "A" is a map showing the general location of the Proposed Pipeline and the Municipality and utility lines under, over, upon or across which the Proposed Pipeline will pass.

3. Union is proposing to abandon a section of the Panhandle NPS16 Line located in the City of Windsor, County of Essex, and replace it with the Proposed Pipeline to address class location changes. The Proposed Pipeline will start at Jefferson Boulevard, in the City of Windsor, and continue eastward for approximately 600 metres.

4. The Applicant requests that this Application be dealt with in accordance with Section 34 of the Board's Rules of Practice and Procedure for written hearings.

The Applicant now therefore applies to the OEB for an Order granting leave to construct the Proposed Pipeline as described above.

Dated at Municipality of Chatham-Kent this 2nd day of March, 2017.

[original signed by]

_____

Per: Mark Murray, J.D.
Manager, Regulatory Projects & Lands Acquisition
for Union Gas Limited

Comments respecting this Application should be directed to:

Mark Murray
Manager, Regulatory Projects & Lands Acquisition
Union Gas Limited
50 Keil Drive North
Chatham, Ontario
N7M 5M1
Telephone: 519-436-4601
Fax: 519-436-4641
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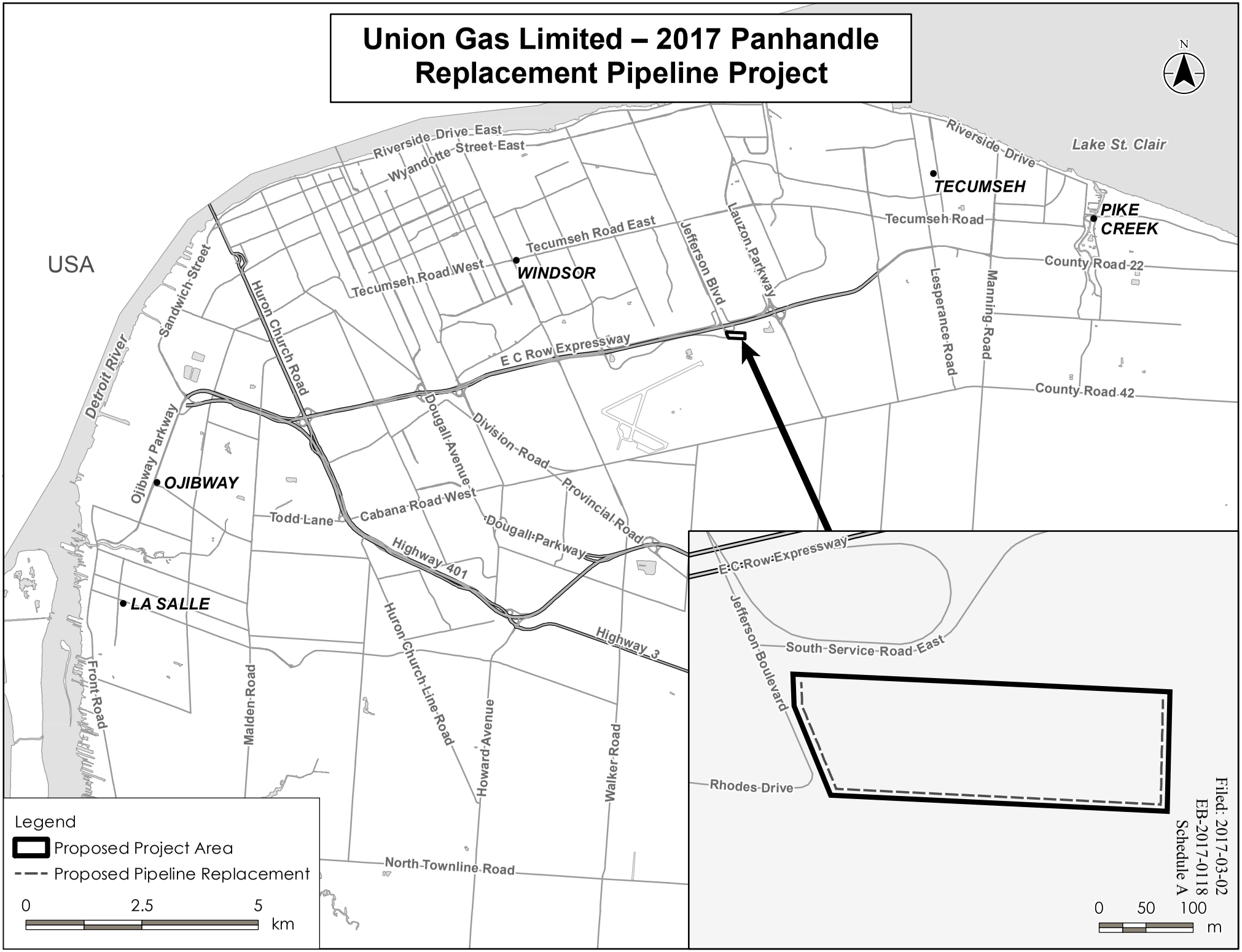
Union Gas Limited – 2017 Panhandle Replacement Pipeline Project



Filed: 2017-03-02
EB-2017-0118
Schedule A

2017 PANHANDLE REPLACEMENT PIPELINE PROJECT

INDEX

Project Summary 1
Rationale for Project 2
Description of Existing Panhandle Transmission System 3
Proposed Facilities 5
Project Costs and Economics 5
Design and Construction 6
Landowners 7
Environmental 10
Indigenous and First Nations Consultation 11

Schedules

Schedule 1 Location Map
Schedule 2 Map of System
Schedule 3 Estimated Project Costs
Schedule 4 Proposed Schedule
Schedule 5 TSSA Abandonment Guidelines
Schedule 6 Excerpts from Z662-15
Schedule 7 Map of Running Line and Land Rights Required
Schedule 8 Letter of Non-Objection from City of Windsor
Schedule 9 Landowner Listing
Schedule 10 Form of Easement
Schedule 11 Environmental Report
Schedule 12 OPCC comments
Schedule 13 Summary for Ministry of Energy
Schedule 14 Ministry of Energy Response
Schedule 15 Indigenous Consultation Report

Project Summary

Union Gas Limited ("Union"), pursuant to Section 90.(1) of the Ontario Energy Board Act, requests approval from the Ontario Energy Board ("OEB") for leave to construct approximately .6 kilometers ("km") of NPS16 pipeline ("Proposed Pipeline").

Union is proposing to abandon and replace a section of the Panhandle NPS16 Line located in the City of Windsor, County of Essex to address class location changes and to address construction concerns from Hydro One. The pipeline will start at Jefferson Boulevard and continue eastward for approximately 600 metres, (the "Project"). The location of the Proposed Pipeline is shown on Schedule 1.

The Panhandle NPS16 Line commences at the Ojibway Measurement Station ("Ojibway") in the City of Windsor and terminates at the Dawn Compressor Station ("Dawn") in the Township of Dawn-Euphemia (the "Panhandle Line"). This section of the Panhandle Line was constructed in 1951.

Union completes property and population reviews of its pipelines for class location compliance. This review identified this location of the Panhandle Line needed to be replaced to meet the current code requirements.

This pipeline will be replaced size for size.

The cost of the Project is approximately $1.52 M.

Union has discussed the Project with the directly affected landowners along the route of the Proposed Pipeline.

Union has completed an Environmental Report ("ER") for the Project. The report did not identify any long term significant environmental impacts as a result of the Project.

Union is proposing to replace this pipeline during the 2017 summer and fall construction season. In order to accommodate this, Union respectfully requests Ontario Energy Board approval by August 1, 2017.

Rationale for Project

Since 1951, development and population density along sections of the Panhandle NPS16 have increased which has led to increases in class location designations. The Proposed Pipeline needs to be upgraded for the increased class location designation.

The pipe design depends on which class location it is located within. To determine class location, CSA Z662-15 uses a classification system that takes into account land use and population density. The designations are as follows:

a. Class 1 areas consist of 10 or fewer dwellings;
b. Class 2 areas consist of 11 to 45 dwellings, or a building occupied by 20 or more persons during normal use such as playgrounds, recreational areas, or other places of public assembly as well as industrial installations;

c. Class 3 areas consist of 46 or more dwellings.

d. Class 4 contains a prevalence of buildings intended for human occupancy with 4 or more stories above ground.

The class location boundaries are determined by a sliding boundary 1.6 km long by 400 metre wide centered over the pipeline. This method covers existing development. This is supplemented with information for future development through discussions with landowners, and municipalities. The pipeline may be designed for a class location to accommodate future development.

Since this initial construction development and population density have changed along the Proposed Pipeline such that the pipeline no longer meets the code requirements. The Proposed Pipeline will be constructed in compliance with the requirements of CSA Z662-15 Standard in accordance with the Code Adoption document under Ontario Regulations. The Proposed Pipeline will be designed to meet Class 3 requirements.

The Project was deemed the most effective action to ensure long term compliance with class location issues.

Description of Existing Panhandle Transmission System

The Panhandle Transmission System is composed of two pipelines; an NPS20 pipeline and an NPS16 pipeline as shown in Schedule 2. The Panhandle Transmission System commences at Ojibway and ends at Dawn. The Panhandle NPS16 Line connects to the Panhandle Eastern Pipeline

system in the Detroit River. Union ships gas from Ojibway to Dawn on the Panhandle Transmission system.

The Panhandle NPS16 Line has a Maximum Operating Pressure ("MOP") of 6040 kPag from Dawn to the Dover Transmission Station ("Dover"). Between Dover and Grand Marais Transmission Station ("Grand Marais") the MOP is 4140 kPag. Between Grand Marais and Ojibway the MOP is 3450 kPag.

Union has recently received approval from the OEB to replace approximately 40 kms of the NPS 16 Panhandle line with NPS 36 between the Dawn Compressor Station and the Dover Transmission Station EB-2016-0179.

The Panhandle NPS20 Line commences at Dawn and terminates at the connection to the Panhandle Line in the City of Windsor just west of Grand Marais Boulevard. The Panhandle NPS20 Line has a MOP of 6040 kPag between Dawn and the Sandwich Transmission Station ("Sandwich"). The MOP of the Panhandle NPS20 Line between Sandwich and the Panhandle NPS16 junction west of Grand Marais Boulevard is 3450 kPag.

The Panhandle Transmission system feeds markets in the Municipality of Chatham–Kent and Essex County including, Chatham, Windsor and the Leamington/Kingsville greenhouse market.

Proposed Facilities

Union is proposing to construct approximately 600 meters of NPS16 pipeline easterly from Jefferson Boulevard.

Union reviewed the Project with Hydro One in winter 2016 and, in order to avoid impacting Hydro One's facilities, Union chose to abandon a portion of the existing pipeline in place and route a portion of the Proposed Pipeline around Hydro One facilities.

A map showing the general location of the pipeline can be found at Schedule 1.

Alternatives

Due to the short distance of the pipeline no alternatives were considered.

Project Costs and Economics

The estimated Project costs for the project are approximately $1.52 M. A detailed breakdown of these costs can be found at Schedule 3.

A Discounted Cash Flow report has not been completed for this Project as the Project is underpinned by the class location requirements and there are no new contracts associated with this Project.

Design and Construction

Union is proposing to install the Proposed Pipeline in the new selected routing as shown in Schedule 7.

The proposed pipeline will be designed and constructed 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.

The proposed pipeline will meet or exceed the design and construction requirements of CSA Code Z662-15.

The current Class Location for the Proposed Pipeline includes Class 2. In consideration for future potential development along the route, the Proposed Pipeline will be designed to meet Class 3 location requirements.

The Proposed Pipeline has an outside diameter of 406.4 mm, a minimum wall thickness of 7.1 mm and minimum yield strength of 359 MPa. The pipe will be manufactured to comply with either CSA Z245.1 Steel Pipe Standard or API-5L Specification for Line Pipe Standard. The pipeline will have a Design Pressure of 6,040 kPa and Maximum Operating Pressure of 4,140 kPa.

The Proposed Pipeline will be pressure tested and leak tested in accordance with the Clause 8 of CSA Code Z662-15 and Ontario Regulation 210/01 requirements.

The minimum depth of cover will be in accordance with Clause 4.11 of CSA Code Z662-15. In general locations the pipe will be installed with a minimum of 0.6m of cover. Additional depth of cover greater than the minimum will be provided to accommodate existing or planned facilities.

Union is proposing to replace this pipeline during the 2017 summer and fall construction season and complete construction by November 30, 2017. Attached at Schedule 4 is a proposed project schedule.

The existing NPS 16 pipeline will be removed with the exception of those sections of pipe deemed to be not practical to remove, such as under the hydro transmission station and any other infrastructure overtop or around the existing pipeline easement and removal would disrupt their operations. These locations identified as part of the abandonment plan, will be abandoned in place and a new land right obtained as required. The CSA Z662-15 and TSSA Abandonment Guidelines will be followed for all pipe abandoned in place. The TSSA abandonment guidelines can be found at Schedule 5 and CSA Z662-15, Section 10.16 can be found at Schedule 6.

Landowners

To construct the Proposed Pipeline, Union will be acquiring new land rights.

Union will also require temporary land rights for the construction of the Proposed Pipeline.

For the pipeline that will be abandoned in place, Union will maintain its existing land rights.

Union will require crossing permits from Conservation Authority and other utilities along the pipeline route.

Union has discussed the Project with the directly affected landowners along the route of the pipeline. Union is currently working with The Corporation of the City of Windsor and The Hydro-Electric Power Commission of Ontario to finalize the necessary land rights. Attached at Schedule 8 is a letter of Non-Objection from the City of Windsor regarding Union's proposed facilities.

Schedule 7 is a map that shows the running line of the Proposed Pipeline and the land rights required for the Proposed Pipeline.

Schedule 9 lists the permanent and temporary land use rights required to construct the Proposed Pipeline. Approximately .5 hectares of permanent easement and .4 hectares of temporary land use are required along the Proposed Pipeline route.

Union's form of easement is attached at Schedule 10 this form has been offered to all new landowners where permanent land rights are required. This form of easement covers the installation, operation and maintenance of one pipeline. Union is currently in negotiations with the two directly affected landowners and these landowners have been offered Union's standard form of easement agreement. However, they may require Union to utilize a different form of agreement.

Temporary land use agreements are usually required for a period of two years. This allows Union the opportunity to return in the year following construction to perform further clean-up and remediation work as may be required.

At the conclusion of construction, Union will seek a full and final release from each of the directly affected landowners. This full and final release will include compensation for any damages caused or attributed to the pipeline construction.

Union has implemented a comprehensive program to provide landowners, tenants, and other interested persons with information regarding the Proposed Pipeline. Project information was distributed through direct discussions with the affected landowners.

For over a decade Union has had in place a comprehensive Landowner Relations program which has proven successful on other projects. The key elements of this program are a Complaint Tracking System, and the assignment on a full-time basis of a Landowner Relations Agent to projects such as these to ensure that commitments made to landowners are fulfilled, to address questions and concerns of the landowners, and to act as a liaison between landowners and the contractor and company engineering personnel.

After construction, negotiations with landowners will continue, where necessary, to settle any damages that were not foreseen or compensated for, prior to construction.

Environmental

Union completed an Environmental Protection Plan ("EPP") for the proposed Project. The EPP has been completed to meet the intent of the OEB's Environmental Guidelines. The EPP can be found at Schedule 11.

Due to the short distance of the Proposed Pipeline and the fact that the new pipeline will be installed in generally the same location as the existing pipeline, a full route selection was not completed.

Union has met with the directly affected landowners to discuss the pipeline route. These landowners did not identify any concerns with Union's chosen route.

The EPP indicates that the environmental and socio-economic effects associated with construction of the Project are generally short-term in nature and minimal. There are no cumulative effects as a result of the construction of the Project. By implementing the mitigation measures identified in the EPP and following Union's standard construction practices there will be no long term significant environmental impacts as a result of this Project.

The EPP was submitted to the Ontario Pipeline Coordinating Committee ("OPCC") on March 1, 2017. Copies were also submitted to local municipalities, government agencies and First Nations. Summaries of the report were provided to all directly affected landowners and copies were also submitted to anyone who requested a copy. A summary of the comments and Union's response will be provided in Schedule 12 as they are received.

Union will implement a program dealing with environmental inspection. This program will ensure that the recommendations in the EPP are followed. An inspector trained in environmental issues will monitor construction activities and ensure that all activities comply with the mitigation measures found in the EPP.

Union will discuss the Project with the Essex Region Conservation Authority and the Ministry of Natural Resources and will work with them throughout the Project to secure any necessary permits. Union expects to obtain the necessary permits and authorizations prior to construction.

Indigenous and First Nations Consultation

Union has a long standing practice of consulting with Indigenous People and the First Nations, and has programs in place whereby Union works with them to ensure they are aware of Union's projects and have the opportunity to participate in both the planning and construction phases of the project.

Union has an extensive data base and knowledge of Indigenous and First Nations organizations in Ontario and consults with the Tribal organizations and the data bases of the Ministry of Natural Resources, Ministry of Indigenous l Affairs and Reconciliation and Indigenous Affairs and Northern Development Canada to ensure consultation is carried out with the most appropriate groups.

Union has signed a General Relationship Agreement with the First Nations of Ontario which describes Union's commitments to the First Nations 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 enhanced the requirements for Indigenous and Métis Consultation.

The Board working closely with the Ministry of Energy revised the Indigenous consultation requirements to streamline and clarify the roles and obligations of the Ministry of Energy, the OEB and Union.

Attached at Schedule 13 is a summary for the Ministry of Energy, providing the Ministry of Energy with a project description and requesting the Ministry of Energy identify any Indigenous communities who may be impacted by the Proposed Project.

Attached at Schedule 14 is a letter from the Ministry of Energy to Union identifying which Indigenous communities will be impacted by the Proposed Project and formally delegating to Union the responsibility to conduct consultation activities.

Attached at Schedule 15 is a copy of Union's Indigenous Consultation Report for the Proposed Project, a copy of which has been provided to the Ministry of Energy. The Indigenous Consultation Report includes:

- A summary of all meetings with Indigenous communities;
- A summary of the concerns that were identified by the Indigenous communities and how the concerns were addressed and/or accommodated; and
- A complete record of all consultation activities.

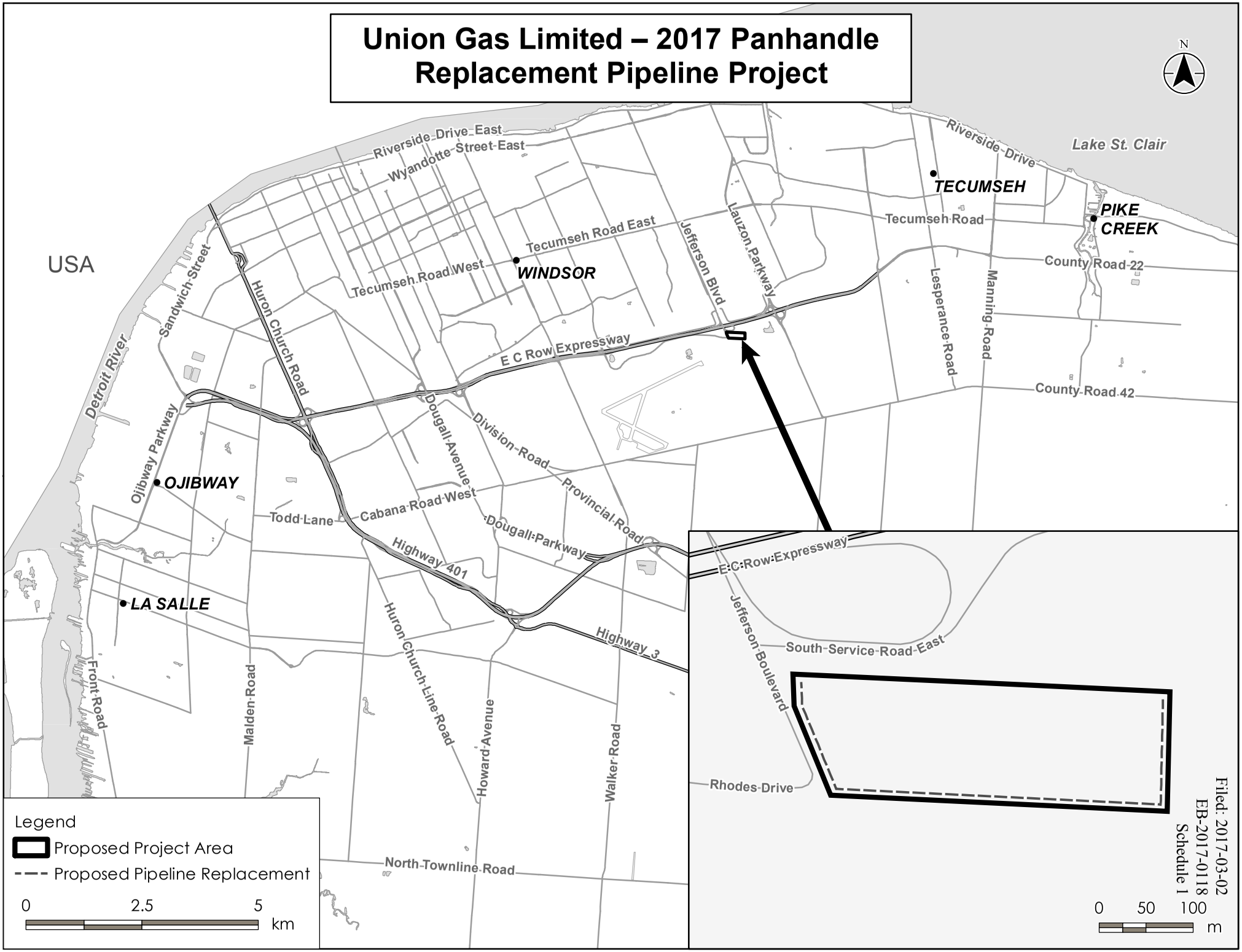
After Union has filed its OEB Application it will continue to meet and consult with the Indigenous and the First Nations organizations identified in the Indigenous Consultation Report.

The Indigenous Consultation Report will be updated on a regular basis to reflect Union's ongoing consultation practices.

During construction, Union has inspectors in the field who are available to Indigenous and First Nations organization as a primary contact to discuss and review any issues that may arise during construction.

When Union completes the necessary archaeological assessments for the Project Union will consult with and provide the result of the surveys to any Indigenous or First Nations upon their request.

Union Gas Limited – 2017 Panhandle Replacement Pipeline Project



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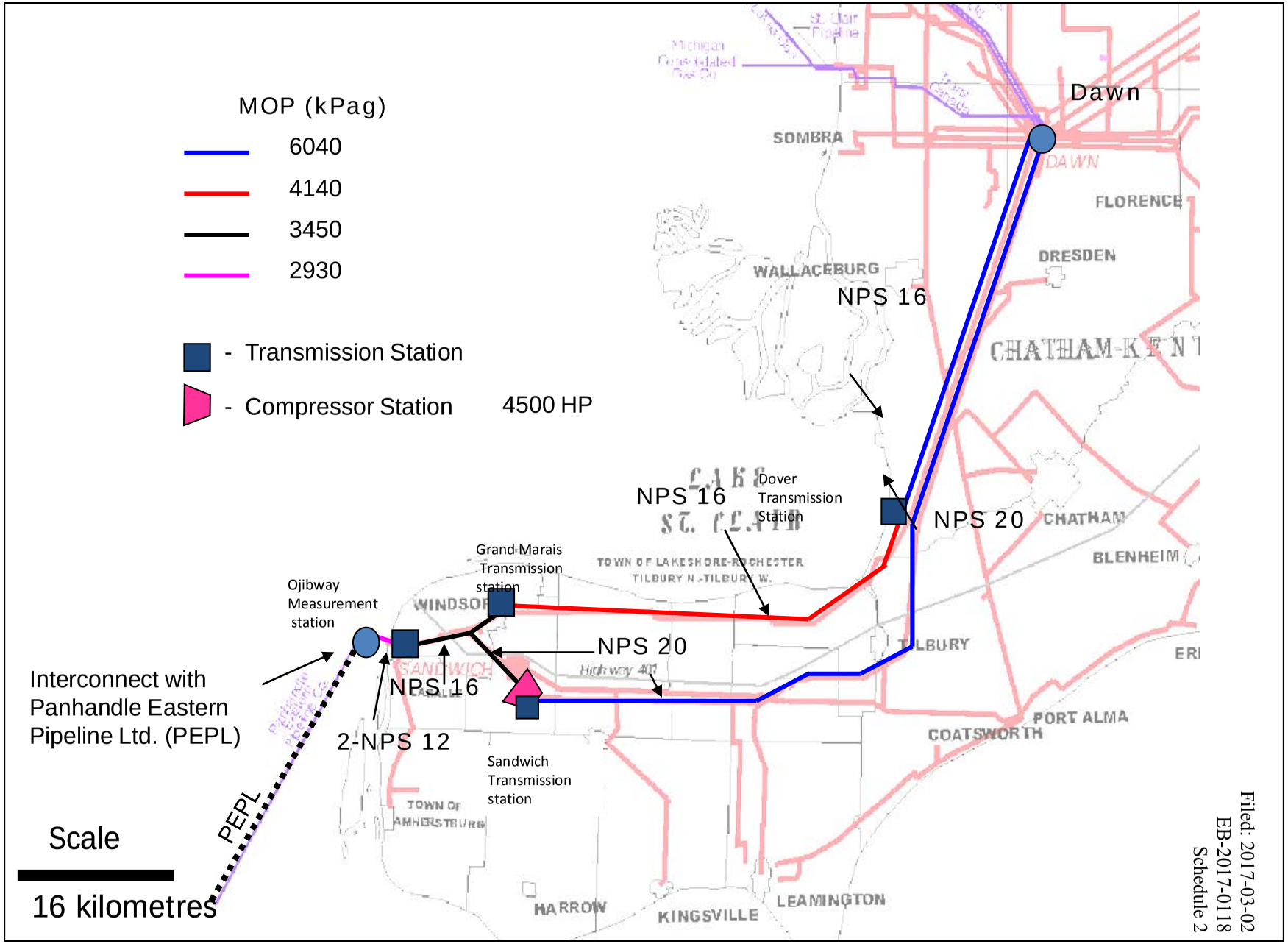
Schedule 1



Filed: 2017-03-02
EB-2017-0118
Schedule 2

2017 PANHANDLE REPLACEMENT PIPELINE PROJECT

TOTAL ESTIMATED PIPELINE CAPITAL COSTS

Pipeline and Equipment		
NPS 16 Steel Pipe with FBE and Fittings (600m)	$ 195,000	
Miscellaneous Material	55,000	
Sub-Total	$250,000	
Total Pipeline and Equipment		$250,000
Construction and Labour		
Contractor Cost	$865,000	
X-Ray, Survey, Miscellaneous Outside Services & Consultants	75,000	
Company Expenses & Labour	45,000	
Regulatory & Legal	25,000	
Easements, Lands & Damages	75,000	
Total Construction and Labour		1,085,000
Total Pipeline and Equipment and Construction and Labour		$1,335,000
Escalation		0
Contingencies		133,500
Interest During Construction		50,000
Total Estimated Pipeline Capital Costs – 2017 Construction		$1,518,000

2017 PANHANDLE REPLACEMENT PIPELINE PROJECT

PROJECT SCHEDULE

TASKS	2017										2018							
	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
OEB																		
PREPARE MATERIAL																		
ENVIRONMENTAL ASSESSMENT																		
FILING																		
DECISION																		
MATERIAL																		
DESIGN																		
MATERIAL ORDER																		
LAND/LAND RIGHTS																		
TITLE SEARCH																		
SURVEY																		
NEGOTIATIONS																		
PERMITS																		
CONSTRUCTION																		
SURVEY																		
CLEARING / GRADING																		
STRINGING																		
WELDING																		
TESTING																		
TIE-INS																		
BACKFILL																		
CLEANUP																		
ABANDONMENT																		
IN SERVICE																		
YEAR AFTER CLEANUP																		

Filed: 2017-03-02
EB-2017-0118
Schedule 4

PIPELINE ABANDONMENT CHECKLIST

PLANNING

1. Has subsidence been considered for pipelines having a diameter greater than 323.9 mm (12 inches)?

2. Has the pipeline company notified the landowners and proper authorities (municipalities, MOE, MTO, MNR, etc.) of the abandonment?

3. Have abandonment procedures for crossings been agreed upon by utilities (road, railway, pipelines, etc.) and authorities responsible for rivers and streams crossed by the pipeline?

4. Has consideration been given to the effect of drainage in the area surrounding the abandoned pipeline , which may act as a conduit for ground water after the pipe is perforated by corrosion?

5. Has consideration been given to the removal of all the aboveground facilities?

6. Has consideration been given to any hazards posed to people, equipment, wildlife or livestock by any apparatus left in place above or underground?

IMPLEMENTATION

1. Has the abandoned pipeline been physically isolated from the live pipeline?

2. Has the pipeline been drained of all fluids and adequately cleaned to prevent ground water contamination from hydrocarbon residue on the pipe wall after the pipe is perforated by corrosion?

3. Have all aboveground facilities been removed and has consideration been given to removing underground facilities such as anode beds and tanks?

LIABILITY/RISK MANAGEMENT

1. Does the pipeline company have a contingency plan to remedy any contamination caused by the abandoned pipeline?

2. Has consideration been given to conducting post-abandonment surveillance programs?

3. Has consideration been given to maintaining signage after the pipeline is abandoned?

4. Has consideration been given to providing a locate service after the pipeline is abandoned?

f) the class location of the pipeline; and
g) the means of supporting the piping.

10.14.3.2

All phases of the hot-tap operation, other than the welding specified in Clause 10.14.3.1, may be completed at pipeline system operating pressures, provided that the maximum working pressure of the hot-tap equipment involved is not exceeded.

Note: *It is not necessary to pressure test a hot-tap fitting after installation; however, if pressure testing is performed, damage to the run pipe caused by the external pressure exceeding the internal pressure should be avoided.*

10.15 Deactivation and reactivation of piping

10.15.1 Deactivation of piping

10.15.1.1

Operating companies deactivating piping shall

a) isolate the piping, using blind flanges, weld caps, or blanking plates suitable for the pressure from which the deactivated piping is being isolated;
b) where required, provide a pressure-relief system; and
c) fill the piping with a suitable medium, having regard for the intended duration of the deactivation, the effects of the medium on the integrity of the piping, and the potential consequences of a leak.

10.15.1.2

For deactivated piping, operating companies shall

a) maintain external and internal corrosion control as specified in Clause 9;
b) where considered appropriate, perform other maintenance activities as specified in Clause 10;
c) maintain records as specified in Clauses 9.11 and 10.4; and
d) for piping that is deactivated for more than 18 months, annually confirm the suitability of the deactivation methods used, the corrosion control, and other maintenance activities.

10.15.2 Reactivation of piping

10.15.2.1

Prior to reactivating piping, the operating company shall conduct an engineering assessment (see Clause 10.1.1) to determine whether the piping would be suitable for its intended service.

10.15.2.2

Where the engineering assessment indicates that the piping would not be suitable for its intended service, the operating company shall implement measures necessary to make it suitable before reactivating the piping.

Δ 10.16 Abandonment of pipelines and pipe-type storage vessels

10.16.1 General

The decision to abandon a section of a pipeline, whether in place or through removal, shall be made on the basis of a documented abandonment plan that includes the rationale for the abandonment, landowner consultation, effect on terrain and water, road and railway crossings, as well as current and

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Filed: 2017-03-02
EB-2017-0118
Schedule 6
Page 2 of 2

potential land use. The plan shall consider the potential for safety hazards and environmental damage that could be created by ground subsidence, soil admixing or contamination, groundwater contamination, erosion, and the creation of water conduits.

Note: *The NEB* Pipeline Abandonment: A Discussion Paper on Technical and Environmental Issues, *National Energy Board, Section 2 provides guidance.*

10.16.2 Buried pipelines

A buried pipeline that is abandoned in place shall be

a) emptied of service fluids;
b) purged or appropriately cleaned or both in a manner that leaves no mobile materials remaining in the pipeline;
c) physically separated from any in-service piping;
d) capped, plugged, or otherwise effectively sealed;
e) cut off at pipeline depth; and
f) left unpressurized.

Note: *Pipelines containing liners or constructed of polymeric pipe might require repeat purging and maintenance to accommodate out gassing of hydrocarbon or H_2S. See Clause 13.2.8.6.*

10.16.3 Removal of related surface equipment

A buried pipeline that has been abandoned in place shall have all related surface equipment removed to pipeline depth, except where surface equipment is within an existing surface facility that is in continuing operation or deactivated. Pipeline signage may be left in place where deemed appropriate.

Note: *Examples of such equipment are pipeline risers, liner vent piping, casing vents, underground valve vaults or valve extenders, inspection bell holes, and cathodic protection rectifiers, test posts, or anode wiring.*

10.16.4 Aboveground pipelines

Abandoned aboveground pipelines and all related surface equipment shall be removed except where they are part of or within an existing surface facility that is in continuing operation or deactivated.

10.16.5 Records

C There is a commentary available for this Clause.

Records shall be created and maintained for all of the work conducted to meet the requirements of Clauses 10.16.1 to 10.16.3. Additional records for pipelines that are abandoned in place shall include lengths, diameter, material type (e.g., metallic or non-metallic), spatial characteristics, and where practical, burial depth.

Δ 10.17 Abandonment of pipeline related facilities

10.17.1 General

Pipeline related facilities such as compressors and pump stations shall have all rotating and fixed equipment removed, unless they are still part of an operating or deactivated site. Associated piping, utilities, supports, and foundations shall also be removed.

Note: *Testing for site soil contamination and appropriate remediation might be required.*

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DESIGN PARAMETERS
(NEW PIPING ONLY)

DESIGN
- DESIGNED TO CSA Z662-15
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6040 kPa (876 pslg)

OPERATING PRESSURE
- NPS 16 PANHANDLE SYSTEM
  MOP - 4140 kPa (600 pslg)

NDE REQUIREMENTS
BUTT WELDS: 100% RADIOGRAPHY
FILLET WELDS (FABRICATION): MAGNETIC PARTICLE AND UT

TEST INFORMATION
Minimum Pressure: 8456 kPa (1226.4 pslg)
Maximum Pressure: 9060 kPa (1314.0 pslg)
Duration: 24 hours
Medium: Water

TEST DATE: _____

ALL MATERIAL TO BE IN CONFORMANCE WITH THE REQUIREMENTS IDENTIFIED IN STANDARD MATERIAL LIST C&M 1.2

CONSTRUCTION NOTES:

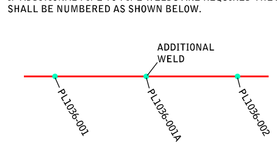
1) REFER TO JOB PACKAGE SPECIAL INSTRUCTIONS AND TYPICAL CONSTRUCTION DRAWINGS FOR ALL DETAILED CONSTRUCTION PROCEDURES.
2) CONTRACTOR RESPONSIBLE FOR ALL UTILITY LOCATES.
3) MINIMUM DEPTH OF COVER 1.2m
4) PROTECT EXISTING NPS 16, 6040kPa LINE DURING CONSTRUCTION.
5) "ROPE" PIPE AROUND P/L CHANGES UNLESS OTHERWISE STATED.
6) MAINTAIN MIN. 300mm CLEARANCE BETWEEN PROPOSED MAIN AND OTHER UTILITIES AND UNDERGROUND STRUCTURES THAT ARE CROSSED.
7) ALL CULVERTS, END WALL TREATMENT AND TILE DRAINS REMOVED DURING CONSTRUCTION ARE TO BE RESTORED TO MATCH EXISTING CONDITIONS.
8) RESTORATION INCLUDES TOPSOIL, SEEDING AND TREE PLANTING.
9) RESTORE DRIVEWAYS TO MATCH EXISTING.
10) ALL ASPHALT AREAS TO BE RESTORED TO MATCH EXISTING.
11) RESTORE ALL OPEN DRAINS TO MATCH ORIGINAL GRADE AND CONTOUR CONDITIONS.
12) ALL WORK MUST BE IN ACCORDANCE WITH THE UNION GAS CONSTRUCTION AND MAINTENANCE MANUAL SPECIFICATIONS.
13) ALL WELDS TO BE NON-DESTRUCTIVELY EXAMINED, AS PER C&M 3.6
14) RADIOGRAPHY 100% BUTT WELDS.
15) MAGPARTICLE 100% FILLET WELDS; FULL ENCIRCLEMENT AND LONG SEAM WELDS.
16) ADD UT IN SERVICE FILLET WELDS IMMEDIATELY AND 48 HOURS POST WELD
17) CATHODIC PROTECTION DESIGN TO BE REINSTATED IF REMOVED.
18) HYDROSTATIC TESTING, DEWATERING AND PIPELINE DRYING DETAILED IN SPECIAL INSTRUCTIONS.

NOTES:
ALL WELDS SHALL BE NUMBERED WITH THE PREFIX PL1036-mm

WELD QUANTITIES ARE FOR REFERENCE PURPOSES ONLY. DO NOT USE FOR BID PURPOSES.

WHERE TEST CAPS ARE REQUIRED THE NUMBER SHALL MATCH THE TIE-IN WELD NUMBER WITH THE SUFFIX - TW (TEST WELD) ADDED i.e. PL1036-16-1011-TW1

IF ADDITIONAL PIPE TO PIPE WELDS ARE REQUIRED THEY SHALL BE NUMBERED AS SHOWN BELOW.



LEGEND
- NEW PIPING TO BE INSTALLED
- EXISTING HP PIPING
- X — X — EXISTING PIPING TO BE ABANDONED
- PROPOSED EASEMENT
- PROPERTY LINES
- TEMPORARY WORKING AREA
- FUTURE ROW

WORK AREA CO-ORDINATES: LONG: -82.937906°W LAT: 42.289237°N
ALL DIMENSIONS ARE IN MILLIMETRES

APP'D	DATE		
		FOR INFORMATION ONLY	
		PRELIMINARY	
		ISSUED FOR BID	
		ISSUED FOR CONSTRUCTION	
		AS BUILT	AS BUILT BY:
			CHECKED BY:

ENGINEER: Taylor Jones

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Schedule 7

No.	DATE	BY	APP'D	REMARKS

REVISIONS

uniongas
A Spectra Energy Company

JEFFERSON BLVD CLASS LOCATION
NPS 16 PANHANDLE REPLACEMENT PROJECT
ALIGNMENT DRAWING

DRAWN BY K.W. GUERIN	DATE 2017/02/09	PLOT SPEC: 1/600	
CHECKED BY R. ARMRY	DATE 2017/02/09	CAD CODE: PL1036-02 IFC	
APPROVED BY T. JONES	DATE 2017/02/09	FILE REVISION DATE 2016-00-00	
GRID No. 1 OF 1	SYSTEM	DRAWING No. PL1036	

YOUR QUICK GATEWAY (WINDSOR)

Windsor International Airport
3200 County Rd. 42
Unit Number 200
Windsor, Ontario
Canada, N8V 0A1

phone: 519-969-2430
fax: 519-969-6053
web: www.YQG.ca

February 23rd 2017

Jeff Fasoyiro
Land Agent
Union Gas Limited
50 Keil Drive
Chatham, ON N7M 5M1

Via Email

Dear Mr. Fasoyiro:

Re: Union Gas Limited ("Union")
2017 Panhandle Replacement Pipeline Project
Windsor Airport Replacement

After reviewing your proposal to replace the NPS 16 pipeline to the east of Jefferson Blvd. YQG, has no objection to the location or construction methodology proposed by Union Gas, provided that the pipeline be buried to a minimum of 60" below grade, backfilled with sand and marked with safety tape inside of the trench.

YQG will await Union Gas' submission of the final detailed engineering drawings for final review and approval. Once you have these documents please forward them to my attention.

After YQG has reviewed these drawings and is able to determine the land required for construction of the proposed facilities, we will advise you of the next steps with respect to determining compensation and the relevant documents that are required.

Should you have any questions or concerns, please do not hesitate to contact the undersigned.

Sincerely,

YOUR QUICK GATEWAY (WINDSOR) INC.

Carolyn A. Brown
Chief Executive Officer

cc: Steve Tuffin, Director of Operations, YQG
Andrew Dowie, Project Administrator, City of Windsor

YOUR QUICK GATEWAY

NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres)			Area	TEMPORARY EASEMENT Dimensions (Metres)			Area	MORTGAGE, LIEN/LEASE &/OR	REMARKS
THE CORPORATION OF THE CITY OF WINDSOR 350 CITY HALL SQUARE WEST WINDSOR, ON N9A 6S1 ATTN: ANDREW DOWIE	PIN: 01408-2026 (LT) LT 34 PL 1197 SANDWICH EAST; LT 35 PL 1197 SANDWICH EAST; LT 36 PL 1197 SANDWICH EAST; LT 37 PL 1197 SANDWICH EAST; LT 38 PL 1197 SANDWICH EAST; LT 39 PL 1197 SANDWICH EAST; LT 40 PL 1197 SANDWICH EAST;…	10m	x	473m	0.473	20m 20m	x x	55.1m 432.6m	0.110 0.865		
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO 185 CLEGG ROAD, P.O. BOX 4300 MARKHAM, ON L6G 1B7 Attn: ROMAN DORFMAN	PIN: 01408-1261 (LT) PT LT 117 (MCNIFF) CON 3 SANDWICH EAST FORMERLY LT 116 (IRADELL) CON 3 AS IN SE10721, SE28583 E OF JEFFERSON BLVD; PT LT 118 (MCNIFF) CON 3 SANDWICH EAST FORMERLY LT 117 (IRADELL) CON 3 AS IN SE10663, SE25968;…	10m 10m	x x	46.4m 42.9m	0.046 0.043	20m 20m	x x	46.4m 42.9m	0.093 0.086		

PIPELINE EASEMENT

(the “Easement”)

Between

(hereinafter called the “Transferor”)

and

UNION GAS LIMITED
(hereinafter called the “Transferee”)

This easement is an Easement in Gross

WHEREAS the Transferor is the owner in fee simple of those lands and premises more particularly described as: **PIN**: **Legal Description**: (hereinafter called the "Transferor's Lands").

The Transferor does hereby GRANT, CONVEY, TRANSFER AND CONFIRM unto the Transferee, its successors and assigns, to be used and enjoyed as appurtenant to all or any part of the lands, the right, liberty, privilege and easement on, over, in, under and/or through a strip of the Transferor's Lands more particularly described as: Choose an item. **PIN**: **Legal Description:** Click here to enter text. (hereinafter called the "Lands") to survey, lay, construct, maintain, brush, clear trees and vegetation, inspect, patrol, alter, remove, replace, reconstruct, repair, move, keep, use and/or operate one pipeline for the transmission of Pipeline quality natural gas as defined in The Ontario Energy Board Act S.O. 1998 (hereinafter called the "Pipeline") including therewith all such buried attachments, equipment and appliances for cathodic protection which the Transferee may deem necessary or convenient thereto, together with the right of ingress and egress at any and all times over and upon the Lands for its servants, agents, employees, those engaged in its business, contractors and subcontractors on foot and/or with vehicles, supplies, machinery and equipment for all purposes necessary or incidental to the exercise and enjoyment of the rights, liberty, privileges and easement hereby granted. The Parties hereto mutually covenant and agree each with the other as follows:

1. In Consideration of the sum of **TWO Dollars** ($2.00) of lawful money of Canada (hereinafter called the "Consideration"), which sum is payment in full for the rights and interest hereby granted and for the rights and interest, if any, acquired by the Transferee by expropriation, including in either or both cases payment in full for all such matters as injurious affection to remaining lands and the effect, if any, of registration on title of this document and where applicable, of the expropriation documents, subject to Clause 12 hereof to be paid by the Transferee to the Transferor within 90 days from the date of these presents or prior to the exercise by the Transferee of any of its rights hereunder other than the right to survey (whichever may be the earlier date), the rights, privileges and easement hereby granted shall continue in perpetuity or until the Transferee, with the express written consent of the Transferor, shall execute and deliver a surrender thereof . Prior to such surrender, the Transferee shall remove all debris as may have resulted from the Transferee's use of the Lands from the Lands and in all respects restore the Lands to its previous productivity and fertility so far as is reasonably possible , save and except for items in respect of which compensation is due under Clause 2, hereof. Transferor and Transferee hereby agree that nothing herein shall oblige Transferee to remove the Pipeline from the Lands as part of Transferee's obligation to restore the Lands.

2. The Transferee shall make to the Transferor (or the person or persons entitled thereto) due compensation for any damages to the Lands resulting from the exercise of any of the rights herein granted, and if the compensation is not agreed upon by the Transferee and the Transferor, it shall be determined by arbitration in the manner prescribed by the Expropriations Act, R.S.O. 1990, Chapter E-26 or any Act passed in amendment thereof or substitution therefore. Any gates, fences and tile drains curbs, gutters, asphalt paving, lockstone, patio tiles interfered with by the Transferee shall be restored by the Transferee at its expense as closely as reasonably possible to the condition and function in which they existed immediately prior to such interference by the Transferee and in

the case of tile drains, such restoration shall be performed in accordance with good drainage practice and applicable government regulations.

3. The Pipeline (including attachments, equipment and appliances for cathodic protection but excluding valves, take-offs and fencing installed under Clause 9 hereof) shall be laid to such a depth that upon completion of installation it will not obstruct the natural surface run-off from the Lands nor ordinary cultivation of the Lands nor any tile drainage system existing in the Lands at the time of installation of the Pipeline nor any planned tile drainage system to be laid in the Lands in accordance with standard drainage practice, if the Transferee is given at least thirty (30) days notice of such planned system prior to the installation of the Pipeline; provided that the Transferee may leave the Pipeline exposed in crossing a ditch, stream, gorge or similar object where approval has been obtained from the Ontario Energy Board or other Provincial Board or authority having jurisdiction in the premises. The Transferee agrees to make reasonable efforts to accommodate the planning and installation of future tile drainage systems following installation of the Pipeline so as not to obstruct or interfere with such tile installation.

4. As soon as reasonably possible after the construction of the Pipeline, the Transferee shall level the Lands and unless otherwise agreed to by the Transferor, shall remove all debris as may have resulted from the Transferee's use of the Lands therefrom and in all respects restore the Lands to its previous productivity and fertility so far as is reasonably possible, save and except for items in respect of which compensation is due under Clause 2 hereof.

5. It is further agreed that the Transferee shall assume all liability and obligations for any and all loss, damage or injury, (including death) to persons or property that would not have happened but for this Easement or anything done or maintained by the Transferee hereunder or intended so to be and the Transferee shall at all times indemnify and save harmless the Transferor from and against all such loss, damage or injury and all actions, suits, proceedings, costs, charges, damages, expenses, claims or demands arising therefrom or connected therewith provided that the Transferee shall not be liable under the clause to the extent to which such loss, damage or injury is caused or contributed to by the gross negligence or wilful misconduct of the Transferor.

6. In the event that the Transferee fails to comply with any of the requirements set out in Clauses 2, 3, or 4 hereof within a reasonable time of the receipt of notice in writing from the Transferor setting forth the failure complained of, the Transferee shall compensate the Transferor (or the person or persons entitled thereto) for any damage, if any, necessarily resulting from such failure and the reasonable costs if any, incurred in the recovery of those damages.

7. Except in case of emergency, the Transferee shall not enter upon any of the Transferor's Lands, other than the Lands, without the consent of the Transferor. In case of emergency the right of entry upon the Transferor's Lands for ingress and egress to and from the Lands is hereby granted. The determination of what circumstances constitute an emergency, for purposes of this paragraph is within the absolute discretion of the Transferee, but is a situation in which the Transferee has a need to access the Pipeline in the public interest without notice to the Transferor, subject to the provisions of Clause 2 herein. The Transferee will, within 72 hours of entry upon such lands, advise the Transferor of the said emergency circumstances and thereafter provide a written report to Transferor with respect to the resolution of the emergency situation The Transferee shall restore the lands of the Transferor at its expense as closely as reasonably practicable to the condition in which they existed immediately prior to such interference by the Transferee and in the case of tile drains, such restoration shall be performed in accordance with good drainage practice.

8. The Transferor shall have the right to fully use and enjoy the Lands except for planting trees over the lesser of the Lands or a six (6) metre strip centered over the Pipeline, and except as may be necessary for any of the purposes hereby granted to the Transferee, provided that without the prior written consent of the Transferee, the Transferor shall not excavate, drill, install, erect or permit to be excavated, drilled, installed or erected in, on, over or through the Lands any pit, well, foundation, pavement, building, mobile homes or other structure or installation. Notwithstanding the foregoing the Transferee upon request shall consent to the Transferor erecting or repairing fences, hedges, pavement, lockstone constructing or repairing tile drains and domestic sewer pipes, water pipes, and utility pipes and constructing or repairing lanes, roads, driveways, pathways, and walks across, on and in the Lands or any portion or portions thereof, provided that before commencing any of the work referred to in this sentence the Transferor shall (a) give the Transferee at least (30) clear days notice in writing describing the work desired so as to enable the Transferee to evaluate and comment on the work proposed and to have a representative inspect the site and/or be present at any time or times during the performance of the work, (b) shall follow the instructions of such representative as to the performance of such work without damage to the Pipeline, (c) shall

exercise a high degree of care in carrying out any such work and, (d) shall perform any such work in such a manner as not to endanger or damage the Pipeline as may be required by the Transferee.

9. The rights, privileges and easement herein granted shall include the right to install, keep, use, operate, service, maintain, repair, remove and/or replace in, on and above the Lands any valves and/or take-offs subject to additional agreements and to fence in such valves and/or take-offs and to keep same fenced in, but for this right the Transferee shall pay to the Transferor (or the person or persons entitled thereto) such additional compensation as may be agreed upon and in default of agreement as may be settled by arbitration under the provisions of The Ontario Energy Board Act, S.O. 1998, or any Act passed in amendment thereof or substitution therefore. The Transferee shall keep down weeds on any lands removed from cultivation by reason of locating any valves and/or take-offs in the Lands.

10. Notwithstanding any rule of law or equity and even though the Pipeline and its appurtenances may become annexed or affixed to the realty, title thereto shall nevertheless remain in the Transferee.

11. Neither this Agreement nor anything herein contained nor anything done hereunder shall affect or prejudice the Transferee's rights to acquire the Lands or any other portion or portions of the Transferor's lands under the provisions of The Ontario Energy Board Act, S.O. 1998, or any other laws, which rights the Transferee may exercise at its discretion in the event of the Transferor being unable or unwilling for any reason to perform this Agreement or give to the Transferee a clear and unencumbered title to the easement herein granted.

12. The Transferor covenants that he has the right to convey this Easement notwithstanding any act on his part, that he will execute such further assurances of this Easement as may be requisite and which the Transferee may at its expense prepare and that the Transferee, performing and observing the covenants and conditions on its part to be performed, shall have quiet possession and enjoyment of the rights, privileges and easement hereby granted. If it shall appear that at the date hereof the Transferor is not the sole owner of the Lands, this Easement shall nevertheless bind the Transferor to the full extent of his interest therein and shall also extend to any after-acquired interest, but all moneys payable hereunder shall be paid to the Transferor only in the proportion that his interest in the Lands bears to the entire interest therein.

13. In the event that the Transferee fails to pay the Consideration as hereinbefore provided, the Transferor shall have the right to declare this Easement cancelled after the expiration of 15 days from personal service upon the Manager, Land Services of the Transferee at its Executive Head Office in Chatham, Ontario, (or at such other point in Ontario as the Transferee may from time to time specify by notice in writing to the Transferor) of notice in writing of such default, unless during such 15 day period the Transferee shall pay the Consideration; upon failing to pay as aforesaid, the Transferee shall forthwith after the expiration of 15 days from the service of such notice execute and deliver to the Transferor at the expense of the Transferee, a valid and registrable release and discharge of this Easement.

14. All payments under these presents may be made either in cash or by cheque of the Transferee and may be made to the Transferor (or person or persons entitled thereto) either personally or by mail. All notices and mail sent pursuant to these presents shall be addressed to:

    the Transferor at:

    and to the Transferee at: Union Gas Limited
    P.O. Box 2001
    50 Keil Drive North
    Chatham, Ontario N7M 5M1
    Attention: Manager, Land Services

    or to such other address in either case as the Transferor or the Transferee respectively may from time to time appoint in writing.

15. The rights, privileges and easement hereby granted are and shall be of the same force and effect as a covenant running with the Transferor’s Land and this Easement, including all the covenants and conditions herein contained, shall extend to, be binding upon and inure to the benefit of the heirs, executors, administrators, successors and assigns of the Parties hereto respectively; and, wherever the singular or masculine is used it shall, where necessary, be construed as if the plural, or feminine or neuter had been used, as the case may be.

16. (a) The Transferee represents that it is registered for the purposes of the Harmonized Goods and Services Tax (hereinafter called “HST”) in accordance with the applicable provisions in that regard and pursuant to the Excise Tax Act, (R.S.C., 1985, c. E-15), (hereinafter called “Excise Tax Act”), as amended.

    (b) The Transferee covenants to deliver a Statutory Declaration, Undertaking and Indemnity confirming its HST registration number, which shall be conclusive evidence of such HST registration, and shall preclude the Transferor from collection of HST from the Transferee.

    (c) The Transferee shall undertake to self-assess the HST payable in respect of this transaction pursuant to subparagraphs 221(2) and 228(4) of the Excise Tax Act, and to remit and file a return in respect of HST owing as required under the said Act for the reporting period in which the HST in this transaction became payable.

    (d) The Transferee shall indemnify and save harmless the Transferor from and against any and all claims, liabilities, penalties, interest, costs and other legal expenses incurred, directly or indirectly, in connection with the assessment of HST payable in respect of the transaction contemplated by this Easement. The Transferee’s obligations under this Clause shall survive this Easement.

17. The Transferor hereby acknowledges that this Easement will be registered electronically.

DATED this day of Choose an item. 20

Signature (Transferor)	**Signature (Transferor)**
Insert name here	Insert name here
Print Name(s) (and position held if applicable)	**Print Name(s) (and position held if applicable)**
Choose an item.	Choose an item.
Enter Text here	Enter Text here
Address (Transferor)	**Address (Transferor)**

UNION GAS LIMITED

Signature (Transferee)

Insert name here, Choose an item.

Name & Title (Union Gas Limited)

I have authority to bind the Corporation.

Telephone Number (Union Gas Limited)

Additional Information: (if applicable):

Property Address: Click here to enter text.

HST Registration Number: Click here to enter text.

Municipality of Chatham-Kent

Province of Ontario

DECLARATION REQUIRED UNDER
SECTION Choose an item. OF THE PLANNING
ACT, R.S.O. 1990, as amended

I, Click here to enter text. , of the Click here to enter text., in the Province of Ontario.

DO SOLEMNLY DECLARE THAT

1. I am a Senior Land Agent, Lands Department of Union Gas Limited, the Transferee in the attached Grant of Easement and as such have knowledge of the matters herein deposed to.

2. The use of or right in the land described in the said Grant of Easement is being acquired by Union Gas Limited for the purpose of a Choose an item. line within the meaning of Part VI of the Ontario Energy Board Act, 1998.

AND I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath, and by virtue of The Canada Evidence Act.

DECLARED before me at the
Click here to enter text.,
in the Province of Ontario

This day of Choose an item. 20

_____ _____
A Commissioner, etc.

2017 PANHANDLE REPLACEMENT PIPELINE PROJECT

ENVIRONMENTAL PROTECTION PLAN

Prepared By: **Union Gas Limited**
Environmental Planning
February 2017

TABLE OF CONTENTS

2017 Panhandle Replacement Pipeline Project
Environmental Protection Plan

		Page No.
1.0	Introduction	1
2.0	Project Background	1
3.0	Routing	2
4.0	Planning Process	3
	4.1 Key Activities	3
5.0	Consultation	3
6.0	Project Development	4
	6.1 General Construction Practices	4
	6.2 Operation and Maintenance Practices	5
7.0	Environmental Features and Proposed Mitigation	6
8.0	Cumulative Impacts	8
9.0	Summary and Recommendations	8

Appendices

Table 1	Mitigation Summary – Pipeline Construction
Appendix A	Project Mapping

1.0 INTRODUCTION

This Environmental Protection Plan (EPP) has been prepared for the development of the 2017 Panhandle Replacement Pipeline Project ("the Project"), as proposed by Union Gas Limited ("Union Gas").

To ensure the safe operation of Union Gas's Panhandle NPS (Nominal Pipe Size) 16 inch pipeline, Union Gas is proposing to construct approximately 600 m of NPS 16 inch pipeline and abandon approximately 250 m of NPS 16 inch pipeline. The Project is located within the boundary of the Windsor Airport just east of Jefferson Boulevard on Lots 117 and 118, Concession 3 in the City of Windsor. The location of the project is shown in Appendix A.

This report will document a plan for the protection of the environment during the construction activities associated with the Project.

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 the public consultation opportunities.

In addition to providing a formal plan for the protection of the environment, this report provides the landowners and government agencies detailed documentation of the various environmental protection measures that will be implemented by Union Gas during the development of the Project.

2.0 PROJECT BACKGROUND

The Panhandle NPS 16 Line commences at the Ojibway Measurement Station in the City of Windsor and terminates at the Dawn Compressor Station in the Township of Dawn-

Euphemia (the "Panhandle Line"). This section of the Panhandle Line was constructed in 1951. Since 1951, development and population density along sections of the Panhandle Line have increased which has led to increases in class location designations. The section of the Panhandle Line in the proposed Project needs to be upgraded for the increased class location designation.

To determine class location, the CSA Z662-15 Standard uses a classification system that takes into account land use and population density. The designations are as follows:

- Class 1: areas consisting of 10 or fewer dwellings
- Class 2: areas consisting of 11 to 45 dwellings, or a building occupied by 20 or more persons during normal use such as playgrounds, recreational areas, or other places of public assembly as well as industrial installations
- Class 3: areas consisting of 46 or more dwellings
- Class 4: areas containing a prevalence of buildings intended for human occupancy with 4 or more stories above ground

The proposed pipeline will be designed to meet Class 3 requirements and will be constructed in compliance with the requirements of CSA Z662-15 Standard in accordance with the Code Adoption document under Ontario Regulations.

The existing pipeline will be abandoned in place and a new land rights will be obtained. The pipeline that is abandoned in place will be filled with grout and the Technical Standards and Safety Authority (TSA) abandonment guidelines will be followed during the abandonment.

The Project was deemed the most effective action to ensure long term compliance with class location issues.

3.0 Routing

Due to the short distance of the Proposed Pipeline and the fact that the new pipeline will be installed in generally the same location as the existing pipeline, a full route selection

study was not completed.

Union Gas has met with the directly affected landowners to discuss the pipeline route. These landowners did not identify any concerns with the proposed route.

Please see Appendix A for the route of the proposed pipeline.

4.0 PLANNING PROCESS

4.1 Key Activities

The following is a summary of the key activities for the development of the 2017 Pandhandle Replacement Pipeline Project:

Project Initiation	Fall 2016
Finalize EPP for the Project	Winter 2017
Submit Application:	
Ontario Energy Board	Winter 2017
Ontario Energy Board Hearing	Summer 2017
Ontario Energy Board Decision	Summer 2017
Construction	Summer/Fall 2017
Pipeline In Service	Fall 2017
Post Construction Monitoring	2018

5.0 CONSULTATION

Union Gas has discussed the Project with the directly affected landowners along the route of the pipeline, the Windsor Airport Authority, Hydro One, and First Nations.

Consultation with First Nations began on January 25th, 2017 with a notification email regarding the Project. The notification email provided a project description, a description of the Environmental Assessment process, and a map of the Project Area. The notification email was sent to the First Nations communities identified by the

Ministry of Energy, and included Aamjiwnaang First Nation, Caldwell First Nation, Oneida First Nation, and Walpole Island First Nation.

Both the affected and adjacent landowners will be informed of the Ontario Energy Board application and will have the opportunity to participate in the hearing process.

If the Project is approved, Union Gas will implement a Landowner Relations Program. This program provides the directly affected landowner as well as the adjacent landowners with quick access to Union Gas personnel in the event there are concerns or complaints. This program also includes a complaint tracking system to ensure that complaints and commitments are documented and resolved as quickly as possible.

Union Gas will continue to work with landowners, the Windsor Airport Authority, Hydro One, and First Nations for the duration of the Project.

6.0 PROJECT DEVELOPMENT

6.1 General Construction Practices

Clearing and Grading

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

Stringing

The pipe is strung next to the proposed pipeline location. The sections of pipe are laid end to end and set on supports that keep the pipe off the ground and prevent damage to the coating.

Trenching

To install the pipeline a trench will be dug. The trench is usually dug using an excavator. The width of the trench is approximately 0.6 m and the depth will be a minimum of 1.0 m. The excavator 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.

Cleaning and Testing

To complete construction, the pipeline is cleaned and pressure tested in accordance with the Energy Act.

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 Gas 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. These repairs will be completed as soon as possible after they are detected.

7.0 ENVIRONMENTAL FEATURES AND PROPOSED MITIGATION

The following paragraphs will describe the environmental features that are/may be found in the Project Area and will discuss the mitigation measures that will be implemented to minimize or avoid the impacts to such features. Please see Table 1 for a summary of the general environmental impacts and proposed mitigation measures associated with pipeline construction.

Agricultural Areas

Much of the pipeline construction will occur on agricultural land and therefore will have the potential to impact it. Potential impacts to agricultural land includes: compaction, topsoil/subsoil mixing, and reduction of crop yields.

To mitigate potential compaction, Union Gas will implement appropriate compaction relief using an agricultural subsoiler prior to replacing topsoil if soils have been compacted by heavy equipment. Union Gas will also strip topsoil separately from subsoil to ensure there is adequate separation between the stockpiles. Topsoil stripping and soil compaction will be monitored during construction. Union Gas will also follow a wet soils shut down practice when working directly on agricultural lands to ensure there are no adverse effects due to equipment working on wet soils. Additionally, the Landowner will be compensated for any crop losses as a result of the Project.

Soybean Cyst Nematode

Prior to construction, Union Gas will conduct soil sampling on the agricultural field associated with the Project. The sample will be tested and analyzed for the presence of Soybean Cyst Nematode (SCN). SCN is a microscopic worm-like organism found in soils that obtain their nutrients by feeding on the roots systems of soybeans. Once a field has been infested, there is significant potential for soybean crop loss.

If the field is found to contain SCN, a construction protocol developed by Union Gas to deal with SCN will be implemented. The protocol involves complete topsoil stripping and washing of all construction equipment involved before leaving the site.

Cultural Heritage and Archaeological Resources

Union Gas will retain the services of a Cultural Heritage Consultant to determine if the Project will have any impacts to cultural heritage landscapes and/or built heritage resources and to develop appropriate mitigation measures if required.

Union Gas will retain the services of an Archaeological Consultant to initiate a Stage I and Stage II Archaeological Assessment prior to construction in accordance with the Ministry of Tourism, Culture and Sport (MTCS) guidelines to identify known or potential archaeological planning constraints within the Project study area. The survey will serve to confirm the presence of significant archaeological resources subject to potential impact 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.

Tree Clearing

Tree clearing is not anticipated for this project.

Should tree clearing become necessary, it will be restricted from occurring between April 1 to August 31 in accordance with 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.

Natural Environmental Features and Species at Risk

Union Gas will retain an independent third party consultant to review the Project study area for any natural environmental features and potential species at risk (SAR) that may require additional mitigation measures to ensure they are not impacted. Union Gas will work with the appropriate governing agencies (Essex Region Conservation Authority and Ministry of Natural Resources and Forestry) to develop mitigation plans and obtain necessary permits should there be potential for natural environmental features (i.e. watercourses and wetlands) or SAR to be impacted by construction activities.

8.0 CUMULATIVE EFFECTS

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".

It is expected that construction of the natural gas pipeline will result in both minor positive and negative cumulative effects. There may be cumulative impacts between this pipeline and other projects in the area, although Union Gas is unaware of any projects that would interact with this proposal.

Additional noise, dust, and traffic could be an issue should construction occur concurrently with a separate project; however, the benefits of the new pipeline will be a positive impact in the long term as it is being constructed to ensure safe operation of the Panhandle Line and therefore the safety of the public.

9.0 SUMMARY AND RECOMMENDATIONS

This Environmental Protection Plan (EPP) provides a strategy for the protection of the environment during the 2017 Panhandle Replacement Pipeline Project. This EPP has been developed by identifying environmental features in the area and the potential

impacts of construction. The EPP also recommends mitigation measures to minimize the environmental impacts of the proposed Project.

The pipeline will be monitored the year after construction to ensure the restoration measures were effective. If additional restoration measures are required, they will be completed as soon as possible.

With the implementation of the recommended mitigation measures, and ongoing landowner and agency communication, the 2017 Panhandle Replacement Pipeline Project is not anticipated to have any significant adverse environmental or socio-economic effects.

TABLE 1

MITIGATION SUMMARY –PIPELINE CONSTRUCTION

Table 1: Mitigation Summary – Pipeline Construction		
Issue	**Potential Impact**	**Proposed Mitigation**
Gravel Driveways and Roadways	Disruption to landowners and tenants	• Roadways and driveways will be open cut. • Maintain one lane of traffic if possible. • Implement traffic controls as required. • 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	• At least one lane of traffic will be maintained at all times. • 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 to ensure public safety on construction site. • Ensure proper signage and flag persons if required.
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 telephone numbers of supervisory personnel.
Fences	Disruption to landowners and tenants.	• 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.

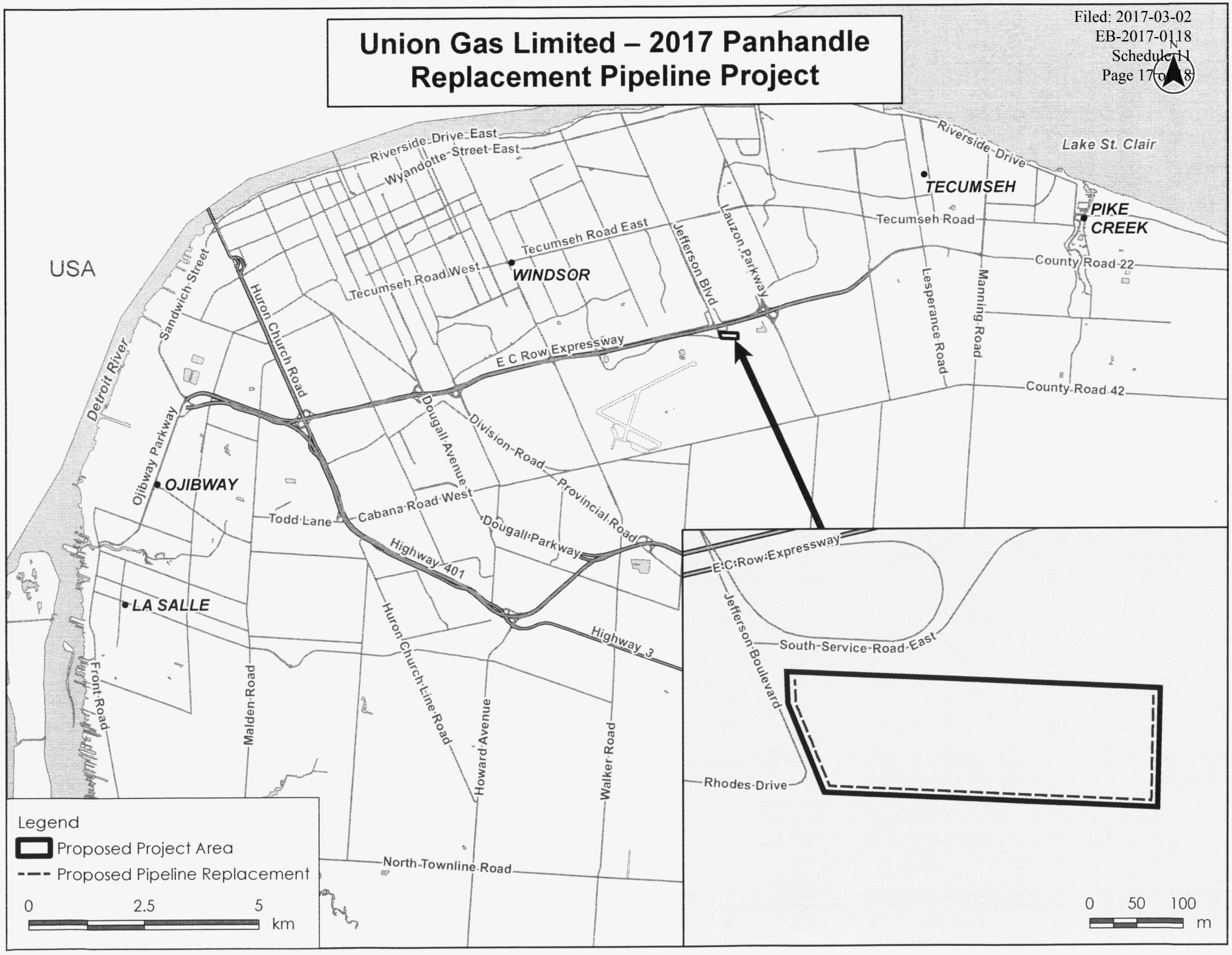
Table 1: Mitigation Summary – Pipeline Construction		
Issue	**Potential Impact**	**Proposed Mitigation**
Underground Utilities	Disruption of services	• Obtain "locates" from all utilities. • If utilities are damaged, repair as soon as possible.
Archaeology	Disturbance of heritage resources	• An archaeological assessment will be completed prior to construction • Stop construction if artifacts are encountered. • Notify Ontario Ministry of Tourism, Culture and Sport.
Trees	Damage to Trees Disturbance to wildlife	• No tree removal is anticipated • If tree removal is necessary, trees will be removed outside of avian nesting window, or alter alignment to avoid trees if possible. • Pipeline to be located one metre from base of tree if possible. • Discuss restoration plans with landowner.
Natural Areas	Sediment 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.
Spills	Public safety issue	• Ensure the Ministry of Environment and Climate Change (MOECC) 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, Health and Safety Department should be contacted. • Clean up contaminated material following Company and MOECC

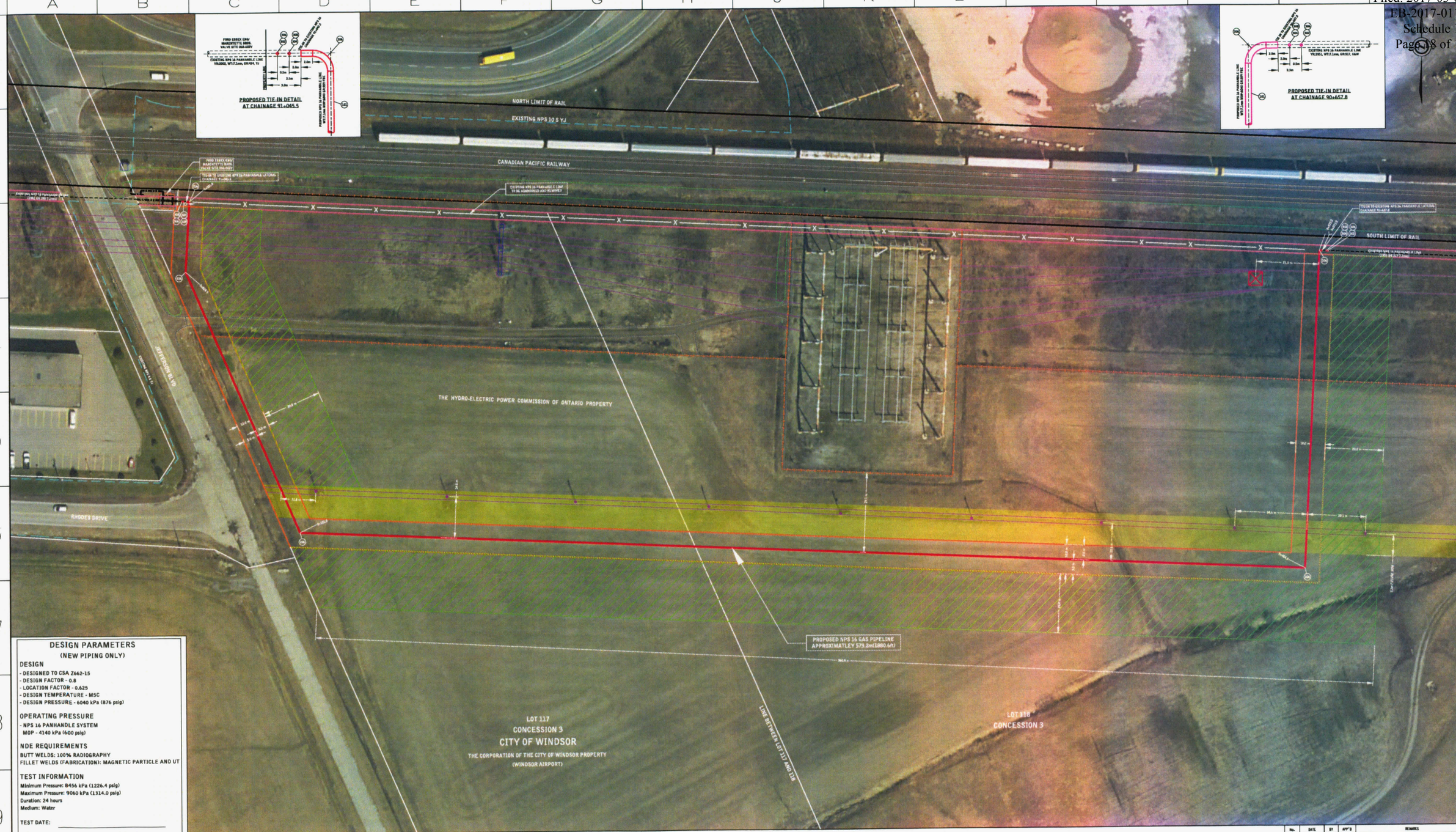
Table 1: Mitigation Summary – Pipeline Construction		
Issue	**Potential Impact**	**Proposed Mitigation**
		procedures.
Site Restoration	Disturbance to public and private properties	• Construction area to be restored as soon as possible upon completion of pipe installation.

APPENDIX A

PROJECT MAPPING

Union Gas Limited – 2017 Panhandle Replacement Pipeline Project





DESIGN PARAMETERS
(NEW PIPING ONLY)

DESIGN
- DESIGNED TO CSA Z662-15
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6040 kPa (876 psig)

OPERATING PRESSURE
- NPS 16 PANHANDLE SYSTEM
  MOP - 4140 kPa (600 psig)

NDE REQUIREMENTS
BUTT WELDS: 100% RADIOGRAPHY
FILLET WELDS (FABRICATION): MAGNETIC PARTICLE AND UT

TEST INFORMATION
Minimum Pressure: 8456 kPa (1226.4 psig)
Maximum Pressure: 9060 kPa (1314.0 psig)
Duration: 24 hours
Medium: Water

TEST DATE: _____

ALL MATERIAL TO BE IN CONFORMANCE WITH THE REQUIREMENTS IDENTIFIED IN STANDARD MATERIAL LIST C&M 1.2

CONSTRUCTION NOTES:

1) REFER TO JOB PACKAGE SPECIAL INSTRUCTIONS AND TYPICAL CONSTRUCTION DRAWINGS FOR ALL DETAILED CONSTRUCTION PROCEDURES.
2) CONTRACTOR RESPONSIBLE FOR ALL UTILITY LOCATES.
3) MINIMUM DEPTH OF COVER 1.2m
4) PROTECT EXISTING NPS 16, 6040kPa LINE DURING CONSTRUCTION.
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6) MAINTAIN MIN. 300mm CLEARANCE BETWEEN PROPOSED MAIN AND OTHER UTILITIES AND UNDERGROUND STRUCTURES THAT ARE CROSSED.
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8) RESTORATION INCLUDES TOPSOIL, SEEDING AND TREE PLANTING.
9) RESTORE DRIVEWAYS TO MATCH EXISTING.
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NOTES:
ALL WELDS SHALL BE NUMBERED WITH THE PREFIX PL1036-nnn

WELD QUANTITIES ARE FOR REFERENCE PURPOSES ONLY. DO NOT USE FOR BID PURPOSES.

WHERE TEST CAPS ARE REQUIRED THE NUMBER SHALL MATCH THE TIE-IN WELD NUMBER WITH THE SUFFIX - TW (TEST WELD) ADDED (i.e. PL1036-16-1611-TW)

IF ADDITIONAL PIPE TO PIPE WELDS ARE REQUIRED THEY SHALL BE NUMBERED AS SHOWN BELOW.

ADDITIONAL WELD
PL1036-001 PL1036-001A PL1036-002

LEGEND
- NEW PIPING TO BE INSTALLED
- EXISTING HP PIPING
- X — X — EXISTING PIPING TO BE ABANDONED
- PROPOSED EASEMENT
- PROPERTY LINES
- TEMPORARY WORKING AREA
- FUTURE ROW

5 0 10 20 30 METRES
15 0 15 30 45 60 90 FEET

WORK AREA CO-ORDINATES: LONG: -82.93700°W LAT: 42.28833°N

ALL DIMENSIONS ARE IN MILLIMETRES

APP'D	DATE		
		FOR INFORMATION ONLY	
		PRELIMINARY	
		ISSUED FOR BID	
		ISSUED FOR CONSTRUCTION	
		AS BUILT	AS BUILT BY:
			CHECKED BY:

ENGINEER: Taylor Jones

No.	DATE	BY	APP'D	REMARKS

REVISIONS

uniongas
A Spectra Energy Company

JEFFERSON BLVD CLASS LOCATION
NPS 16 PANHANDLE REPLACEMENT PROJECT
ALIGNMENT DRAWING

DRAWN BY K.W. GUERIN	DATE 2017/02/09	PLOT SPEC: 1/600	
CHECKED BY A. HARRY	DATE 2017/02/09	CAD CODE: PL1036-02 IFC	
APPROVED BY T. JONES	DATE 2017/02/09	FILE REVISION DATE 2016-08-08	
GRID No. 1 OF 1	SYSTEM	DRAWING No. PL1036	

Summary of Comments

TO BE FILED WHEN RECEIVED

Union Gas Limited Pipeline Project
Panhandle NPS 16 Replacement (Jefferson) – Summary for Ministry of Energy

1. Introduction

This Summary Report has been prepared to provide the Ministry of Energy ("MOE") with an overview of the Panhandle NPS 16 Replacement (Jefferson) ("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 Gas") is proposing to construct approximately 570 m of NPS 16 pipeline and abandon approximately 250 m of NPS 16 pipeline on Union Gas's Panhandle Line. The Project is located within the boundary of the Windsor Airport just east of Jefferson Boulevard on Lots 117 and 118, Concession 3 in the City of Windsor. The location of the project is shown in **Figure 1**.

The following co-ordinates define the start points and end points of the project sections:

	Latitude	Longitude
Start	**42°17'20.93"N**	**82°56'16.95"W**
End	**42°17'20.76"N**	**82°56'0.12"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 this Project will be submitted to the OEB in March 2017. Construction of the expansion project is planned to begin in September 2017 with an in service date of November 1, 2017.

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 will be initiated in the winter of 2016/17 by Union Gas, with support provided throughout the process by consultant archaeologists, cultural heritage specialists, and biologists. Due the short length of the project a route selection study was not

completed. 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 Gas will obtain a permit from the Essex Region Conservation Authority to work within a regulated area.
  - Union Gas 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 Windsor Airport Authority, Hydro One, the Essex Region Conservation Authority, and First Nations and Metis Nation as identified by MOE.

4.1 Project Notification

Union Gas has and will continue to meet with the City of Windsor, the Windsor Airport Authority and Hydro One regarding the project. Union Gas will review the project with Essex Region Conservation Authority, and First Nations and Metis Nation as identified by MOE. All land rights necessary to construct the project will be obtained from the Windsor Airport Authority.

5. Project Activities

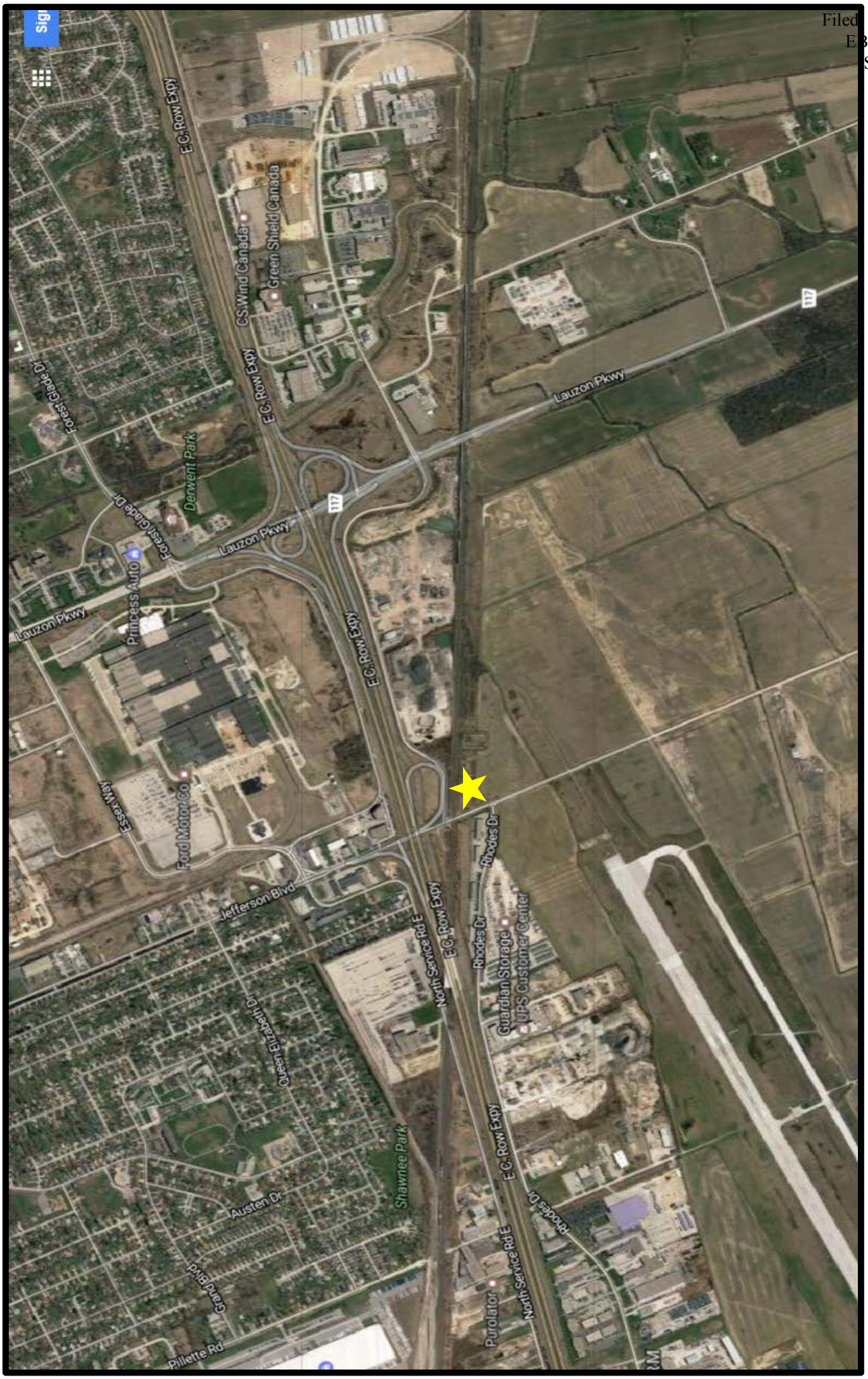
Union Gas existing pipeline is located in close proximity to some Hydro One transmission towers and a Hydro One sub-station. In order to minimize the potential impacts on Hydro Ones facilities, Union Gas is proposing to construct the proposed facilities approximately 100 metres south of the existing facilities.

Union Gas will follow its standard construction practices to install the NPS 16 pipeline on the Windsor Airport property. Union Gas 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. The existing NPS 16 pipe will be abandoned in place according to the TSSA abandonment guidelines.

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.

Panhandle NPS 16 Replacement (Jefferson)



Ministry of Energy

77 Grenville Street
6th Floor
Toronto ON M7A 2C1

Tel: (416) 314-2599

Ministère de l'Énergie

77 rue Grenville
6e étage
Toronto ON M7A 2C1

Tél: (416) 314-2599

Ontario

Indigenous Energy Policy

January 19, 2017

VIA Email

Ken McCorkle
Manager, Indigenous Affairs
Union Gas Ltd.

Re: Panhandle NPS 16 Replacement Project (Jefferson)

Dear Mr. McCorkle:

Thank you for your email dated December 5, 2016, notifying the Ministry of Energy of Union Gas Ltd.'s intention to seek review and approval from the Ontario Energy Board for the above referenced project.

I understand that the planned project includes the construction approximately 570 metres of NPS 16 pipeline and the abandonment of approximately 250 metres of NPS 16 pipeline on Union Gas's Panhandle line. The proposed project will occur within the boundary of the Windsor Airport just east of Jefferson Boulevard in lots 117 and 118, Concession 3 in the City of Windsor.

Based on the limited information provided to date, the Ministry is unable to make a definitive assessment as to whether or not the duty to consult is triggered and accordingly, using a precautionary approach, we request that Union Gas Ltd. notify the following Indigenous communities:

Community	Mailing Address
Bkejwanong (Walpole Island First Nation)	RR3 Walpole Island, ON N8K 4K9
Aamjiwnaang First Nation	978 Tashmoo Avenue Sarnia, ON N7T 7H5

Caldwell First Nation	14 Orange Street Leamington, ON N8H 1P5
Oneida Nation of the Thames	RR2 Southwold, ON N0L 2G0

This preliminary assessment should be revisited when additional project details are available. Please follow up with the Ministry of Energy accordingly. Please also share with the Ministry any new information a community provides to Union Gas Ltd. that suggests potential adverse impacts of the project on its Aboriginal or treaty rights.

Please contact Michelle Schlag, Senior Advisor at 416-327-7158 or michelle.schlag@ontario.ca with any further questions or if you wish to discuss the matter in more detail.

Sincerely,

Amy Gibson

Amy Gibson
Manager
Indigenous Energy Policy

INDIGENOUS CONSULTATION REPORT
PANHANDLE REPLACEMENT PROJECT (JEFFERSON)

Introduction

This report is to document Union's consultation efforts with Indigenous communities to meet the requirements of the OEB's Environmental Guidelines in relation to Indigenous Consultation.

Project Description

Union is proposing to replace a section of the Panhandle NPS16 Line located in the City of Windsor, County of Essex to address class location changes. The pipeline will start at Jefferson Boulevard and continue eastward for approximately 600 metres, (the "Project"). The general location of the proposed pipeline is shown on Schedule 1.

Project Map

A detailed description of the proposed facilities can be found at Schedule 2 attached.

Indigenous and First Nations Consultation

Union has a long standing practice of consulting with Indigenous People and the First Nations, and has programs in place whereby Union works with them to ensure they are aware of Union's projects and have the opportunity to participate in both the planning and construction phases of the Project.

The following describes the process and role for Proponents to engage with the Ministry of Energy on Consultation with Indigenous communities:

1) applicants for projects shall contact the Ministry of Energy early in the project planning process, as soon as the need, terminal points, project characteristics and the general location are determined and provide a description of the project's characteristics and location to the Ministry;

2) The Ministry will determine whether there may be a duty to consult. If so, it will identify any Aboriginal communities whose rights are potentially affected by the proposed project, assess the extent of necessary consultation. The Ministry will provide a list of affected communities to the applicant within 25 business days of the day it was informed about the project by the applicant;

3) Depending on the Crown's assessment of the planned project, the Ministry will expressly delegate procedural aspects of consultation to the applicant by way of an agreement or memorandum of understanding executed by the applicant and the Ministry, or by way of a letter, or otherwise;

4) The delegation will include the list of First Nations communities potentially affected by the planned project, direction on the respective roles and responsibilities of the applicant and Crown, and the requirements the applicant must satisfy in order to assist in addressing the Crown's duty.

Attached at Schedule 3 is a letter from Union to the Ministry of Energy, providing the Ministry of Energy with a project description and requesting the Ministry of Energy identify any Indigenous communities who may be potentially adversely affected by the Proposed Project.

Attached at Schedule 4 is a letter from the Ministry of Energy to Union identifying which Indigenous communities will be potentially impacted by the Proposed Project Union received the letter of Direction from the Ministry of Energy on January 19 2017. In this letter of Direction, the Ministry advised Union to Consult with the following First Nations:

1) Walpole Island First Nation
2) Aamjiwnaang First Nation
3) Caldwell First Nation
4) Oneida First Nation

Indigenous Nations Contacted

The following Indigenous First Nations were notified by email regarding the Proposed pipeline as required by MOE

Chief Joanne Rogers	Aamjiwnaang First Nation
Sharilyn Johnston: Environmental Coordinator	Aamjiwnaang First Nation

Chief Louise Hillier	Caldwell First Nation
Chief Dan Miskokomon	Walpole Island First Nation
Dean Jacobs: Consultation Manager	Walpole Island First Nation
Jared Macbeth, Project Coordinator	Walpole Island First Nation
Chief Randall Phillips	Oneida First Nation

Consultation Log

Date	**Nation**	**Deliverable**	**Concerns**	**Outcome**
January 25, 2017	Oneida First Nation	Email notification of project	No concerns identified	No response as of Mar 1/17
January 25, 2017	Walpole Island First Nation	Email notification of project	No concerns identified	No response as of Mar 1/17
January 25, 2017	Caldwell First Nation	Email notification of project	No concerns identified	Meeting to be arranged in early March
January 25, 2017	Aamjiwnaang First Nation	Email notification of project	No concerns identified	No response as of Mar 1/17
February 14, 2017	Oneida First Nation	Follow up email to enquire about further consultation	No concerns identified	No response as of Mar 1/17
February 14, 2017	Walpole Island First Nation	Follow up email to enquire about further consultation	No concerns identified	No response as of Mar 1/17
February 14, 2017	Caldwell First Nation	Follow up email to enquire about further consultation	No concerns identified	No response as of Mar 1/17
February 14, 2017	Aamjiwnaang First Nation	Follow up email to enquire about further consultation	No concerns identified	No response as of Mar 1/17

Historically Union notifies the First Nations that have traditional territorial rights that will be affected by the project, of copy of that correspondence is attached as Schedule 5.

Union provides consultation with any First Nations that requests further information to fulfill their requirements. This will take place with face to face meetings involving various subject matter experts from Union under the direction of the Indigenous Affairs department. The First Nations that do not respond to the first invitation Union follows up with a second correspondence to confirm if further information or consultation is required, a copy of that correspondence is attached at Schedule 6.

As part of Union's ongoing relationship with the various First Nations Union will follow up with further correspondence or by phone to ensure that any issue or concerns are addressed and not overlooked. Correspondence in various forms (face to face meetings, email, letter, phone etc.) will continue until Union has satisfied any outstanding issues or concerns.

Future Activities

After Union has filed its OEB Application it will continue to meet and consult with the Indigenous and the First Nations organizations identified in the Indigenous Consultation Report.

The Indigenous Consultation Report will be updated on a regular basis to reflect Union's ongoing consultation.

During construction, Union has inspectors in the field who are available to Indigenous and First

Nations organization as a primary contact to discuss and review any issues that may arise during construction.

When Union completes the necessary archaeological assessments for the Project Union will consult with and provide the result of the surveys to any Indigenous or First Nations upon their request.

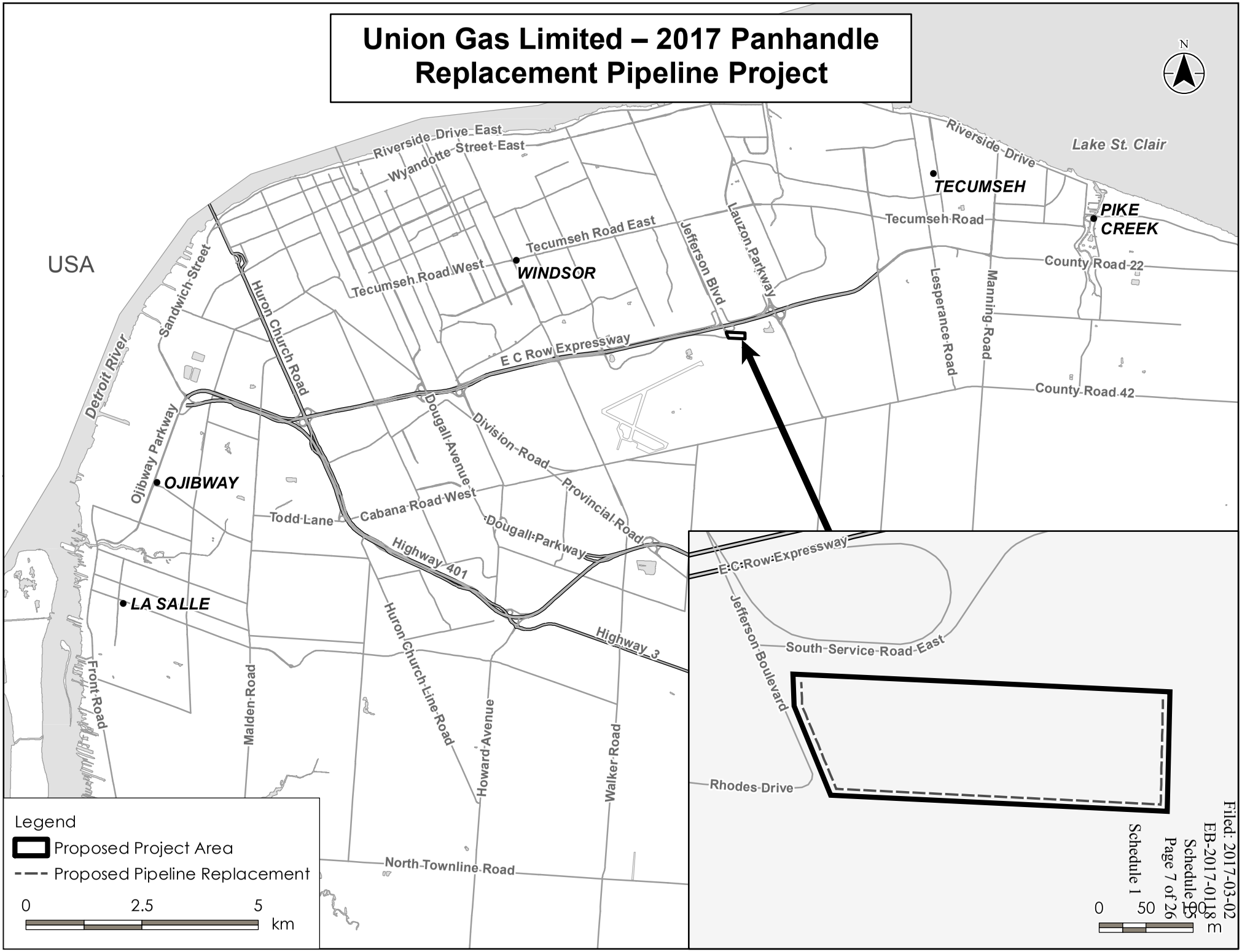
Union will correspond with the Nations to confirm if they want to participate with monitors in the Archeological and Environmental surveys that are required.

Due to the long standing consultation practice that Union has with the Indigenous people Union does not anticipate any issues to be brought forward at this time.

Summary

As a result of our ongoing relationship and correspondence to date Union does not anticipate any concerns or issues with this project. Union will continue engagement with all the affected First Nations throughout the duration of this project to address any concerns that may arise going forward.

Union Gas Limited – 2017 Panhandle Replacement Pipeline Project



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Medium: Water

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NOTES:
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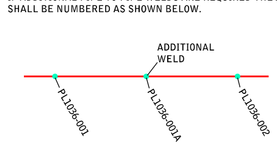
WHERE TEST CAPS ARE REQUIRED THE NUMBER SHALL MATCH THE TIE-IN WELD NUMBER WITH THE SUFFIX - TW (TEST WELD) ADDED i.e. PL1036-16-1011-TW1

IF ADDITIONAL PIPE TO PIPE WELDS ARE REQUIRED THEY SHALL BE NUMBERED AS SHOWN BELOW.



LEGEND
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- X — X — EXISTING PIPING TO BE ABANDONED
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5 0 10 20 30 METRES
10 0 10 20 30 40 50 100 FEET

WORK AREA CO-ORDINATES: LONG: -82.937906°W LAT: 42.289237°N

ALL DIMENSIONS ARE IN MILLIMETRES

APP'D	DATE		
		FOR INFORMATION ONLY	
		PRELIMINARY	
		ISSUED FOR BID	
		ISSUED FOR CONSTRUCTION	
		AS BUILT	AS BUILT BY:
			CHECKED BY:

ENGINEER: Taylor Jones

Schedule 2

No.	DATE	BY	APP'D	REMARKS

REVISIONS

uniongas
A Spectra Energy Company

JEFFERSON BLVD CLASS LOCATION
NPS 16 PANHANDLE REPLACEMENT PROJECT
ALIGNMENT DRAWING

DRAWN BY K.W. GUERIN	DATE 2017/02/09	PLOT SPEC: 1/600	
CHECKED BY R. ARMRY	DATE 2017/02/09	CAD CODE: PL1036-02 1EP	
APPROVED BY T. JONES	DATE 2017/02/09	FILE REVISION DATE 2016-00-00	
GRID No. 1 OF 1	SYSTEM	DRAWING No. PL1036	

Schedule 15
Page 8 of 26

Plot: 2017-03-02
EP: 2017-03-13

STIMES
SHEETS
SDATES

Union Gas Limited Pipeline Project Schedule 3

Panhandle NPS 16 Replacement (Jefferson) – Summary for Ministry of Energy

1. Introduction

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End	**42°17'20.76"N**	**82°56'0.12"W**

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3. Environmental Planning Process

The environmental planning process for the Project will be initiated in the winter of 2016/17 by Union Gas, with support provided throughout the process by consultant archaeologists, cultural heritage specialists, and biologists. Due the short length of the project a route selection study was not

completed. 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;
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  - Identify potential environmental impacts and recommend measures to minimize those impacts; and
  - Describe the public consultation opportunities.
- **Complete all necessary studies and assessments**
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Public consultation is an important part of the environmental planning process and will include discussions with the Windsor Airport Authority, Hydro One, the Essex Region Conservation Authority, and First Nations and Metis Nation as identified by MOE.

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Union Gas has and will continue to meet with the City of Windsor, the Windsor Airport Authority and Hydro One regarding the project. Union Gas will review the project with Essex Region Conservation Authority, and First Nations and Metis Nation as identified by MOE. All land rights necessary to construct the project will be obtained from the Windsor Airport Authority.

5. Project Activities

Union Gas existing pipeline is located in close proximity to some Hydro One transmission towers and a Hydro One sub-station. In order to minimize the potential impacts on Hydro Ones facilities, Union Gas is proposing to construct the proposed facilities approximately 100 metres south of the existing facilities.

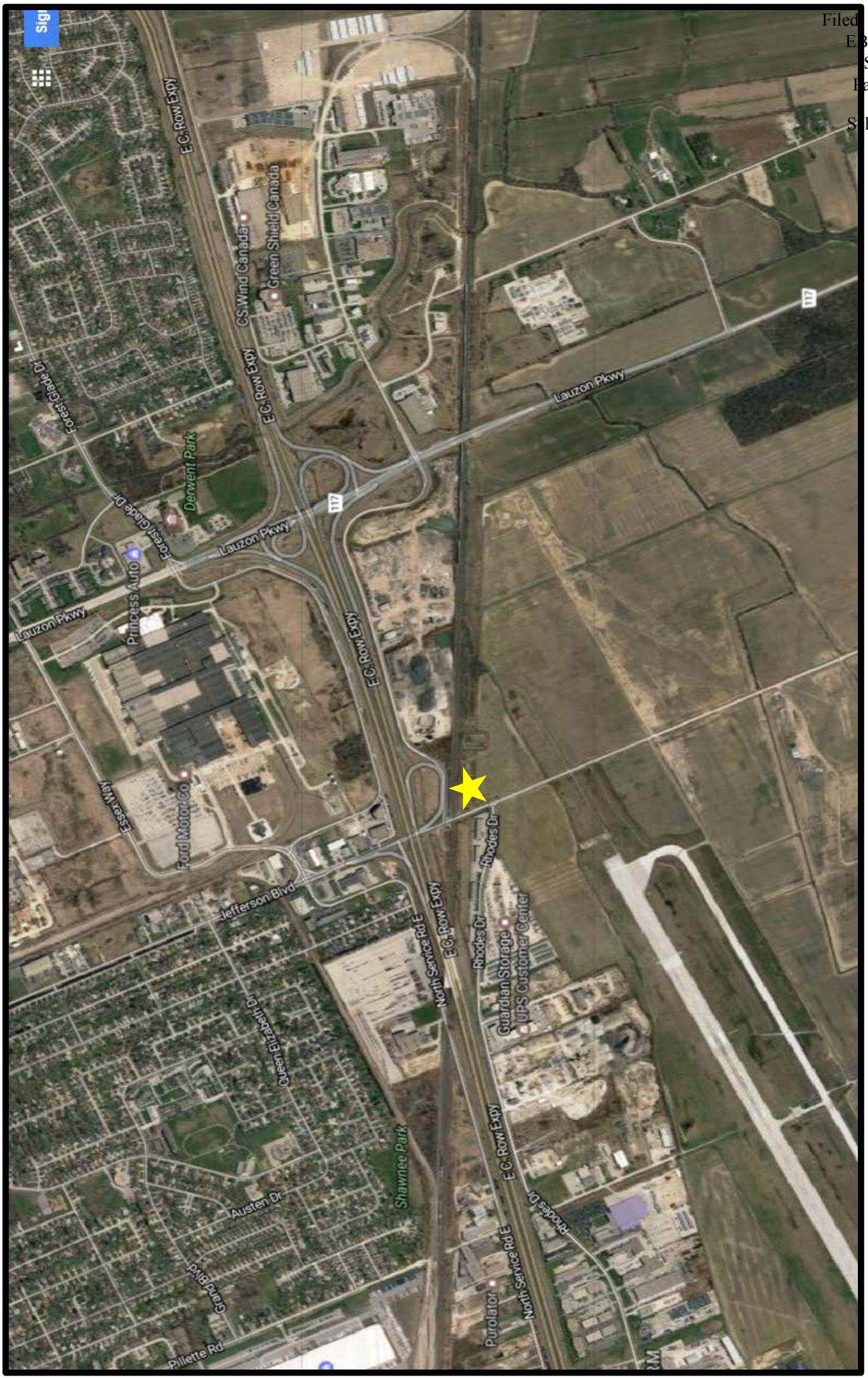
Union Gas will follow its standard construction practices to install the NPS 16 pipeline on the Windsor Airport property. Union Gas standard construction practices include grading the site, digging the trench, installing the welded pipeline in the trench, testing the pipeline, and restoring the area to its original condition. The existing NPS 16 pipe will be abandoned in place according to the TSSA abandonment guidelines.

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 3

Panhandle NPS 16 Replacement (Jefferson)



Ministry of Energy

77 Grenville Street
6th Floor
Toronto ON M7A 2C1

Tel: (416) 314-2599

Ministère de l'Énergie

77 rue Grenville
6e étage
Toronto ON M7A 2C1

Tél: (416) 314-2599

Ontario

Indigenous Energy Policy

January 19, 2017

VIA Email

Ken McCorkle
Manager, Indigenous Affairs
Union Gas Ltd.

Re: Panhandle NPS 16 Replacement Project (Jefferson)

Dear Mr. McCorkle:

Thank you for your email dated December 5, 2016, notifying the Ministry of Energy of Union Gas Ltd.'s intention to seek review and approval from the Ontario Energy Board for the above referenced project.

I understand that the planned project includes the construction approximately 570 metres of NPS 16 pipeline and the abandonment of approximately 250 metres of NPS 16 pipeline on Union Gas's Panhandle line. The proposed project will occur within the boundary of the Windsor Airport just east of Jefferson Boulevard in lots 117 and 118, Concession 3 in the City of Windsor.

Based on the limited information provided to date, the Ministry is unable to make a definitive assessment as to whether or not the duty to consult is triggered and accordingly, using a precautionary approach, we request that Union Gas Ltd. notify the following Indigenous communities:

Community	Mailing Address
Bkejwanong (Walpole Island First Nation)	RR3 Walpole Island, ON N8K 4K9
Aamjiwnaang First Nation	978 Tashmoo Avenue Sarnia, ON N7T 7H5

Caldwell First Nation	14 Orange Street Leamington, ON N8H 1P5
Oneida Nation of the Thames	RR2 Southwold, ON N0L 2G0

This preliminary assessment should be revisited when additional project details are available. Please follow up with the Ministry of Energy accordingly. Please also share with the Ministry any new information a community provides to Union Gas Ltd. that suggests potential adverse impacts of the project on its Aboriginal or treaty rights.

Please contact Michelle Schlag, Senior Advisor at 416-327-7158 or michelle.schlag@ontario.ca with any further questions or if you wish to discuss the matter in more detail.

Sincerely,

Amy Gibson

Amy Gibson
Manager
Indigenous Energy Policy

Schedule 5

From: McCorkle, Ken
To: Joanne Rogers; Sharilyn Johnston
Subject: Panhandle NPS 16 Replacement Project (Jefferson)
Date: January-25-17 4:41:00 PM
Attachments: PIN 014081261 NOV 28 2016.pdf

Dear Chief Rogers & Sharilyn:

In 2017, Union Gas Limited ("Union Gas") is proposing to construct approximately 570 m of NPS 16 pipeline and abandon approximately 250 m of NPS 16 pipeline on Union Gas's Panhandle Line. The Project is located within the boundary of the Windsor Airport just east of Jefferson Boulevard on Lots 117 and 118, Concession 3 in the City of Windsor. The location of the project is shown in Figure 1.

An integral part of this project is an Environmental Assessment that will be completed by Union Gas. As part of the Environmental Assessment, an archaeological assessment, cultural heritage study, and a species at risk study will be completed by an independent third party consultant.

Consultation with affected landowners, First Nations, government agencies and others will be carried out by Union Gas.

A follow-up letter will be sent to you regarding the start of the Environmental Assessment process. The final Environmental Report will be included in an application to the Ontario Energy Board (OEB) whose approval is required before this project can proceed.

If you have any questions regarding this project, feel free to call or email me.

Ken McCorkle
Manager, First Nations and Métis Affairs
Union Gas Ltd.
Phone: 519-436-4600 Ext.5002243
Cell: 519-365-0584

Schedule 5

From: McCorkle, Ken
To: dan.miskokomon@wifn.org; Dean Jacobs; jared.macbeth@wifn.org
Subject: Panhandle NPS 16 Replacement Project (Jefferson)
Date: January-25-17 4:37:00 PM
Attachments: PIN 014081261 NOV 28 2016.pdf

Dear Chief Miskokomon, Dr. Jacobs & Jared:

In 2017, Union Gas Limited ("Union Gas") is proposing to construct approximately 570 m of NPS 16 pipeline and abandon approximately 250 m of NPS 16 pipeline on Union Gas's Panhandle Line. The Project is located within the boundary of the Windsor Airport just east of Jefferson Boulevard on Lots 117 and 118, Concession 3 in the City of Windsor. The location of the project is shown in Figure 1.

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Manager, First Nations and Métis Affairs
Union Gas Ltd.
Phone: 519-436-4600 Ext.5002243
Cell: 519-365-0584

Schedule 5

From: McCorkle, Ken
To: Chief Randall Phillips (randall.phillips@oneida.on.ca)
Subject: Panhandle NPS 16 Replacement Project (Jefferson)
Date: January-25-17 4:32:00 PM
Attachments: PIN 014081261 NOV 28 2016.pdf

Dear Chief Phillips:

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Ken McCorkle
Manager, First Nations and Métis Affairs
Union Gas Ltd.
Phone: 519-436-4600 Ext.5002243
Cell: 519-365-0584

Schedule 5

From: McCorkle, Ken
To: Louise Hillier
Subject: Panhandle NPS 16 Replacement Project (Jefferson)
Date: January-25-17 4:29:00 PM
Attachments: PIN 014081261 NOV 28 2016.pdf

Dear Chief Hillier:

In 2017, Union Gas Limited ("Union Gas") is proposing to construct approximately 570 m of NPS 16 pipeline and abandon approximately 250 m of NPS 16 pipeline on Union Gas's Panhandle Line. The Project is located within the boundary of the Windsor Airport just east of Jefferson Boulevard on Lots 117 and 118, Concession 3 in the City of Windsor. The location of the project is shown in Figure 1.

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Ken McCorkle
Manager, First Nations and Métis Affairs
Union Gas Ltd.
Phone: 519-436-4600 Ext.5002243
Cell: 519-365-0584

Schedule 6

From: McCorkle, Ken
To: Louise Hillier
Subject: FW: Panhandle NPS 16 Replacement Project (Jefferson)
Date: February-14-17 11:46:00 AM
Attachments: PIN 014081261 NOV 28 2016.pdf

Hello Chief Hillier:
I am just doing a follow up to confirm receipt of the previous email below and asking if you require any further information or have any issues/concerns with this 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: kmccorkle@uniongas.com
We can't change the past, but we can influence our future

From: McCorkle, Ken
Sent: January-25-17 4:30 PM
To: Louise Hillier
Subject: Panhandle NPS 16 Replacement Project (Jefferson)

Dear Chief Hillier:

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Ken McCorkle
Manager, First Nations and Métis Affairs

Union Gas Ltd.
Phone: 519-436-4600 Ext.5002243
Cell: 519-365-0584

Schedule 6

Schedule 6

From: McCorkle, Ken
To: Chief Randall Phillips (randall.phillips@oneida.on.ca)
Subject: FW: Panhandle NPS 16 Replacement Project (Jefferson)
Date: February-14-17 11:44:00 AM
Attachments: PIN 014081261 NOV 28 2016.pdf

Hello Chief Phillips:
I am just doing a follow up to confirm receipt of the previous email below and asking if you require any further information or have any issues/concerns with this project?

Miigwetch,
Ken

Ken McCorkle
Manager, Indigenous Affairs
Union Gas Ltd.
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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

From: McCorkle, Ken
Sent: January-25-17 4:33 PM
To: Chief Randall Phillips (randall.phillips@oneida.on.ca)
Subject: Panhandle NPS 16 Replacement Project (Jefferson)

Dear Chief Phillips:

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Ken McCorkle
Manager, First Nations and Métis Affairs

Union Gas Ltd.
Phone: 519-436-4600 Ext.5002243
Cell: 519-365-0584

Schedule 6

Schedule 6

From: McCorkle, Ken
To: dan.miskokomon@wifn.org; Dean Jacobs; Jared Macbeth
Subject: FW: Panhandle NPS 16 Replacement Project (Jefferson)
Date: February-14-17 11:43:00 AM
Attachments: PIN 014081261 NOV 28 2016.pdf

Hello Chief Miskokomon, Dr Jacobs and Jared:
I am just doing a follow up to confirm receipt of the previous email below and asking if you require any further information or have any issues/concerns with this project?

Miigwetch,
Ken

Ken McCorkle
Manager, Indigenous Affairs
Union Gas Ltd.
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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

From: McCorkle, Ken
Sent: January-25-17 4:38 PM
To: dan.miskokomon@wifn.org; Dean Jacobs; jared.macbeth@wifn.org
Subject: Panhandle NPS 16 Replacement Project (Jefferson)

Dear Chief Miskokomon, Dr. Jacobs & Jared:

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Manager, First Nations and Métis Affairs

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Phone: 519-436-4600 Ext.5002243
Cell: 519-365-0584

Schedule 6

Schedule 6

From: McCorkle, Ken
To: chief@aamjiwnaang.ca; Sharilyn Johnston
Subject: FW: Panhandle NPS 16 Replacement Project (Jefferson)
Date: February-14-17 11:41:00 AM
Attachments: PIN 014081261 NOV 28 2016.pdf

Hello Chief Rogers & Sharilyn:
I am just doing a follow up to confirm receipt of the previous email below and asking if you require any further information or have any issues/concerns with this project?

Miigwetch,
Ken

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Union Gas Ltd.
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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

From: McCorkle, Ken
Sent: January-25-17 4:41 PM
To: 'Joanne Rogers'; 'Sharilyn Johnston'
Subject: Panhandle NPS 16 Replacement Project (Jefferson)

Dear Chief Rogers & Sharilyn:

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Schedule 6