

December 17, 2013

BY RESS and COURIER

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

Dear Ms. Walli:

### Re: Union Gas Limited ("Union") Panhandle NPS16 Replacement Project (Lakeshore) Board File # EB-2013-0420

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

Please note that Schedule 12 – Environmental Report is not included in the electronic filing. A CD of Schedule 12, along with hard copies will be provided in our hard copy filing which we will be forwarding by courier. The same will also be available on our website.

In the event that you have any questions on the above or would like to discuss in more detail, please do not hesitate to contact me at 519-436-4601.

Sincerely,

[original signed by]

Mark A. Murray, LL.B Manager, Regulatory Projects and Lands Acquisition :mjp Encl.

### cc: Pascale Duguay, Manager Facilities Applications Zora Crnojacki, Project Advisor

# **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 and ancillary facilities in the Town of Lakeshore, County of Essex.

# UNION GAS LIMITED

- Union Gas Limited (the "Applicant") hereby applies to the Ontario Energy Board (the "Board"), pursuant to Section 90.(1) of the Ontario Energy Board Act (the "Act"), for an Order granting leave to construct approximately 13 kilometres of NPS20 pipeline (the "proposed pipeline"), in the Town of Lakeshore, County of Essex.
- 2. Attached hereto as Schedule "A" is a map showing the general location of the proposed pipeline and the municipalities, highways, railways, utility lines and navigable waters through, under, over, upon or across which the proposed pipeline will pass.
- 3. The construction of the proposed pipeline will allow the Applicant to replace a portion of the existing Panhandle NPS16 Line located in the Town of Lakeshore, County of Essex from the west side of West Puce Road to the east of East Ruscom River Road.
- 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.

5. The Applicant now therefore applies to the Board for an Order granting leave to construct the proposed pipeline as described above.

Dated at Municipality of Chatham-Kent this 17th day of December, 2013.

Per: Mark Murray 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 Email: <u>mmurray@spectraenergy.com</u>



## PANHANDLE NPS16 REPLACEMENT (LAKESHORE) PROJECT

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# **Notice of Application**

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### 1 **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 13 kilometers ("km") of NPS20 hydrocarbon (natural gas) pipeline ("Proposed
 Pipeline"). This is in order to replace a portion of the existing Panhandle NPS16 Line located
 in the Town of Lakeshore, County of Essex from the west side of West Puce Road to the east
 of East Ruscom River Road (the "Project"). The location of the Proposed Pipeline is shown
 on Schedule 1.

9 2. The Panhandle NPS16 Line commences at the Ojibway Measurement Station ("Ojibway") in
10 the City of Windsor and terminates at the Dawn Compressor Station ("Dawn") in the
11 Township of Dawn-Euphemia (the "Panhandle Line"). The Panhandle Line was
12 predominantly constructed in 1951. Union is proposing to replace and upsize a section of the
13 Panhandle Line to address class location change, integrity issues and future growth
14 requirements.

3. Union completes property and population reviews of its pipelines for class location 15 16 compliance. This review had identified several locations along the identified existing stretch of the Panhandle Line that need to be replaced to meet the current requirements. This line is 17 also inspected periodically as part of Union's integrity management program. Results of 18 scheduled inspections and associated investigative digs over the past 14 years have identified 19 multiple integrity issues that could pose safety and security of supply concerns if not 20 addressed. From these two perspectives, the replacement of the proposed section of the 21 Panhandle Line is the most effective way of managing its ongoing safety and reliability. 22

1	4.	As part of the replacement, Union is proposing to increase the size of this portion of the
2		Panhandle Line from the current NPS16 diameter pipeline to an NPS20 diameter pipeline.
3		The increase in pipeline size will provide additional capacity for future growth on the
4		Panhandle system. Union anticipates this incremental capacity will serve future demands for
5		greenhouse customers in the Leamington/Kingsville area. Union is also proposing to install a
6		launcher site at the east end of the Proposed Pipeline to accommodate the future use of
7		pipeline integrity tools.
8	5.	The cost of the Project is \$29,597,000.
9	6.	Union has discussed the Project with the directly affected landowners along the route of the
10		pipeline and is working with landowners to address the issues that have been identified.
11	7.	Union has completed an Environmental Report ("ER") for the Project. The report did not
12		identify any long term significant environmental impacts as a result of the Project.
13	8.	Union is proposing to replace this pipeline during the 2014 summer construction season. In
14		order to accommodate this, Union requests Ontario Energy Board approval by April 2014.
15	Des	cription of Existing Panhandle Transmission System
16	9.	The Panhandle Transmission System is composed of two pipelines; an NPS20 pipeline and an
17		NPS16 pipeline as shown in Schedule 2. The Panhandle Transmission System commences at
18		Ojibway and ends at Dawn. The Panhandle NPS16 Line connects to the Panhandle Eastern
19		Pipeline system in the Detroit River. Union ships gas from Ojibway to Dawn on the
20		Panhandle Transmission system.

1	10.	The Panhandle NPS16 Line has a Maximum Operating Pressure ("MOP") of 6040 kPag from
2		Dawn to the Dover Transmission Station ("Dover"). Between Dover and Grand Marais
3		Transmission Station ("Grand Marais") the MOP is 4140 kPag. Between Grand Marais and
4		Ojibway the MOP is 3450 kPag.
5	11.	The Panhandle NPS20 Line commences at Dawn and terminates at the connection to the
6		Panhandle Line in the City of Windsor just west of Grand Marais Boulevard. The Panhandle
7		NPS20 Line has a MOP of 6040 kPa between Dawn and the Sandwich Transmission Station
8		("Sandwich"). The MOP of the Panhandle NPS20 Line between Sandwich and the Panhandle
9		NPS16 junction west of Grand Marais Boulevard is 3450 kPag.
10	12.	The Panhandle Transmission system feeds markets in the Municipality of Chatham-Kent and
11		Essex County including, Chatham, Windsor and the Learnington/Kingsville greenhouse
12		market.
13		
14	<u>Bacl</u>	kground
15 16	Integ	grity
17	13.	Since 2002, Union has had an extensive pipeline maintenance and integrity management
10		program in place that includes the regular monitoring of pipelines for corrosion, leaks or other
10		
19		potential damage to ensure its pipelines remain in safe operating condition.
19 20	14.	potential damage to ensure its pipelines remain in safe operating condition. As part of this program, Union regularly conducts inline assessments of its pipelines using
19 20 21	14.	potential damage to ensure its pipelines remain in safe operating condition. As part of this program, Union regularly conducts inline assessments of its pipelines using inline inspection tools to determine the condition of the pipelines. Based on the results of
19 20 21 22	14.	potential damage to ensure its pipelines remain in safe operating condition. As part of this program, Union regularly conducts inline assessments of its pipelines using inline inspection tools to determine the condition of the pipelines. Based on the results of these assessments, Union takes appropriate mitigation action to address any integrity issues
19 20 21 22 23	14.	potential damage to ensure its pipelines remain in safe operating condition. As part of this program, Union regularly conducts inline assessments of its pipelines using inline inspection tools to determine the condition of the pipelines. Based on the results of these assessments, Union takes appropriate mitigation action to address any integrity issues that are found.

1	15.	The Panhandle Line was initially inspected using inline inspection tools in sections over the
2		1999 to 2003 timeframe, as Union transitioned to the more formal pipeline integrity
3		management program and subsequently another inspection was completed in 2011.
4		Investigative digs were also completed on the pipeline subsequent to the inline inspection, and
5		some of the more severe defects were removed from the line.
6	16.	Between 1999 and 2013 integrity concerns on the Panhandle NPS16 Line have been addressed
7		on an individual basis.
8	17.	Based on Union's experience with this pipeline and given its overall condition and proximity
9		to built-up areas, partial replacement of the pipeline was deemed the most effective action to
10		manage and ensure the long term integrity of the pipeline.
11	18.	If the Project is delayed, integrity concerns will become more serious as the risk of a potential
12		failure increases.
13	Clas	s Location
14 15	19.	At the time of the original construction of the Panhandle Line in 1951, the population, land
16		use density and the number of dwellings were such that the pipeline was designed for a Class
17		1 location. Since this initial construction, land use and population density along sections of
18		the Panhandle Line have changed and the current class locations have changed and the
19		original design of the pipe has to be upgraded.
20	20.	The pipe design depends on which Class Location it is located within. To determine Class
21		Location, CSA Z662-11 uses a classification system that takes into account land use and
22		population density. The classifications are as follows:

1		a. Class 1 areas consist of 10 or fewer dwellings;
2		b. Class 2 areas consist of 11 to 45 dwellings, or a building occupied by 20 or more
3		persons during normal use such as playgrounds, recreational areas, or other places of
4		public assembly as well as industrial installations;
5		c. Class 3 areas consist of 46 or more dwellings.
6		d. Class 4 contains a prevalence of buildings intended for human occupancy with 4 or
7		more stories above ground.
8	21.	The Class Location boundaries are determined by a sliding boundary 1.6 km long by 400
9		metre wide centered over the pipeline. This method covers existing development. This is
10		supplemented with information for future development through discussions with landowners,
11		and municipalities. The pipeline may be designed to accommodate a higher Class Location to
12		be compatible with future development.
13	22.	Since this initial construction, land use and population density have changed such that the
14		Proposed Pipeline will be constructed in compliance with the requirements of CSA Z662-11
15		Standard in accordance with the Code Adoption document under Ontario Regulations. The
16		Proposed Pipeline will be designed to meet Class 3 requirements.
17	23.	Based on Union's experience with this pipeline and given its overall condition and proximity
18		to built-up areas, the proposed Project was deemed the most effective action to manage and
19		ensure the long term integrity of the pipeline and class location design compliance.

# 1 Proposed Facilities

2	24.	The Proposed Pipeline would replace a portion of the existing Panhandle Line from the west
3		side of West Puce Road to the east side of East Ruscom River Road.
4	25.	A map showing the Proposed Pipeline can be found at Schedule 1.
5	Alte	rnatives
6	26.	To address the integrity issues and class location issues with the Panhandle Line, Union
7		considered two options:
8		(a) Size for size replacement of the Panhandle Line; and
9		(b) Replacement of individual sections of the pipeline identified as not meeting
10		integrity or complying with class location requirements.
11	27.	Option (a) was not selected as it would not serve the forecasted growth in the City of Windsor
12		and the Leamington/ Kingsville greenhouse market. Option (b) was eliminated as a result of
13		inefficiencies related to the significant number of individual replacements required to meet all
14		integrity and class location requirements.
15	28.	Based upon this analysis, Union decided the proposed Project is the preferred method to
16		address these concerns.
17		
18	<u>Proj</u>	ect Costs and Economics
19	29.	The estimated Project costs for the project are \$29,597,000. A detailed breakdown of these
20		costs can be found at Schedule 3.

1	30.	A Discounted Cash Flow report has not been completed for this Project as the Project is
2		underpinned by the integrity and class location requirements and there are no new contracts
3		associated with this Project.
4	Desi	gn and Construction
5	31.	Between the West Puce Road and the East Ruscom River Road, the existing pipeline will be
6		removed and a new pipeline installed either in the existing easement or in a newly acquired
7		easement. This shift in the route for the Proposed Pipeline was necessary to accommodate
8		requests from Hydro One with regards to set backs from the base of the hydro towers and
9		individual landowner requests.
10	32.	At all road crossing and all water course crossings the existing pipeline will either be removed
11		and a new pipeline installed in generally the same location or will be abandoned in place and a
12		new land right obtained.
13	33.	The design and pipe specifications are outlined in Schedule 4. All the design specifications
14		are in accordance with the Ontario Regulations 210/01 under the Technical Standards and
15		Safety Act 2000, Oil and Gas Pipeline Systems. This is the regulation governing the
16		installation of pipelines in the Province of Ontario.
17	34.	The current class location for the Proposed Pipeline includes Class 1, 2 and 3. In
18		consideration for future potential development along the route, the entire length of the
19		Proposed Pipeline will be designed for Class 3 location requirements.
20	35.	The Proposed Pipeline has an outside diameter of 508 mm and a minimum wall thickness of

21 6.4 mm. The pipe is to be manufactured by the electric resistance weld process and will have

1		minimum specified minimum yield strength of 483 MPa. This pipe will be manufactured to
2		the CSA Z245.1-07 Steel Line Pipe Standard for Pipeline Systems and Materials. This
3		pipeline will have a design maximum operating pressure of 6040 kPag.
4	36.	The Proposed Pipeline will be hydrostatically tested in accordance with the Ontario
5		Regulation requirements.
6	37.	The minimum depth of cover will be in accordance with Clause 4.11 of the CSA Code
7		Z662-11. Additional depth greater than the planned depth of 1.2 meters will be provided to
8		accommodate existing or planned facilities.
9	38.	Material is readily available for this Project.
10	39.	Schedule 5 indicates the proposed construction schedule which is scheduled to commence in
11		May 2014 and be completed by the end of November 2014.
12	40.	Abandonment of portions of the existing pipeline will be completed in compliance with TSSA
13		guidelines. The TSSA abandonment guidelines can be found at Schedule 6.
14	41.	Schedule 7 describes the general techniques and methods of construction that will be
15		employed in the construction of the Proposed Pipeline. This schedule details the following
16		activities; locating, clearing and grading, removal of existing pipe, stringing of new pipe,
17		trenching, welding, burying, tie-ins, cleaning and testing and restoration. Union's construction
18		procedures have been continually updated and refined in order to be responsive to landowner
19		concerns and mitigate potential environmental effects related to pipeline construction.

### 1 Landowners

2	42.	To construct the Proposed Pipeline, Union plans to utilize its existing easement and associated
3		land rights under Union's Franchise Agreement with the Town of Lakeshore, as well as
4		acquiring new permanent easement rights.

- 5 43. Union will require temporary land rights for the majority of the construction of the Proposed
  6 Pipeline.
- 7 44. For the abandoned pipeline, Union will maintain its existing land rights.
- 45. Union will require crossing permits or agreements with Municipalities, Conservation
  Authority, railways and other utilities along the pipeline route.
- 46. Union has met or spoken with all directly affected landowners along the Proposed Pipelineroute.
- 47. Schedule 8 is a map that shows the running line of the Proposed Pipeline and the land rightsrequired for the pipeline.
- 48. Schedule 9 lists the permanent and temporary land use rights required to construct theProposed Pipeline.
- 49. There are 86 land rights required along the Proposed Pipeline route. Union is expecting to
  obtain all necessary land rights prior to pipeline construction activities.
- 18 50. Union continues to meet with the un-signed landowners in an attempt to reach an agreement
  19 for the required land rights.
- 20 51. Union's form of easement is attached as Schedule 10 this form will be offered to all new
  21 landowners where permanent easements are required. This easement covers the installation,

1 operation and maintenance of one pipeline. The main restrictions imposed upon the individual 2 landowner by having this easement is that the landowner cannot erect buildings or privacy 3 fencing in the easement. In addition, the landowner cannot excavate on the easement or install structures which would impede access to Union's pipeline. The landowner can, however, 4 install service pipe or utility lines or develop the easement into a laneway or driveway 5 6 entrance upon prior written approval by Union. 7 52. Temporary land use agreements are usually required for a period of two years. This allows Union an opportunity to return in the year following construction to perform further clean-up 8 9 and remediation work as may be required. At the conclusion of construction, Union will seek a full and final release from each of the 10 53. 11 directly affected landowners. This full and final release will include compensation for any damages caused or attributed to the pipeline construction. 12 Union has implemented a comprehensive program to provide landowners, tenants, and other 13 54. interested persons with information regarding the proposed pipeline. Project information was 14 15 distributed through correspondence and meetings with the public. 16 55. 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 17 Complaint Tracking System, and the assignment on a full-time basis of a Landowner 18

19 Relations Agent to projects such as these to ensure that commitments made to landowners are 20 fulfilled, to address questions and concerns of the landowners, and to act as a liaison between 21 landowners and the contractor and company engineering personnel. Union's Complaint 22 Resolution System will be used in this project to record, monitor, and ensure follow-up on any

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1		complaint or issue received by Union related to the construction. This process assists in
2		resolving complaints and tracking the fulfillment of commitments. A process chart and
3		explanatory notes that describe the Complaint Resolution System are found in Schedule 11.
4		In addition to the Landowner Relations Agent's duties during construction, the individual
5		assigned to this position will conduct pre-construction and post-construction interviews to
6		capture any concerns (so that they can be resolved, if at all possible) and document specific
7		landowner concerns and comments (so that they can be considered in the planning of future
8		projects).
9	56.	After construction, negotiations with landowners will continue, where necessary, to settle any
10		damages that were not foreseen or compensated for, prior to construction.
11	Env	ronmental
12	57.	As the majority of the pipeline between the west side of West Puce Road to the east of East
13		
		Ruscom River Road will be removed and a new pipeline installed in generally the same
14		Ruscom River Road will be removed and a new pipeline installed in generally the same location, the full route selection was not completed.
14 15	58.	Ruscom River Road will be removed and a new pipeline installed in generally the same location, the full route selection was not completed. Union met with municipal officials of the Town of Lakeshore to discuss the pipeline route.
14 15 16	58.	Ruscom River Road will be removed and a new pipeline installed in generally the same location, the full route selection was not completed. Union met with municipal officials of the Town of Lakeshore to discuss the pipeline route. The Town of Lakeshore did not identify any concerns with Union's chosen route.
14 15 16 17	58. 59.	Ruscom River Road will be removed and a new pipeline installed in generally the same location, the full route selection was not completed. Union met with municipal officials of the Town of Lakeshore to discuss the pipeline route. The Town of Lakeshore did not identify any concerns with Union's chosen route. Union retained the services of Azimuth Environmental to review the proposed route of the
14 15 16 17 18	58. 59.	Ruscom River Road will be removed and a new pipeline installed in generally the same location, the full route selection was not completed. Union met with municipal officials of the Town of Lakeshore to discuss the pipeline route. The Town of Lakeshore did not identify any concerns with Union's chosen route. Union retained the services of Azimuth Environmental to review the proposed route of the pipeline and prepare an Environmental Report ("ER"). The ER can be found at Schedule 12.
14 15 16 17 18 19	58. 59.	Ruscom River Road will be removed and a new pipeline installed in generally the same location, the full route selection was not completed. Union met with municipal officials of the Town of Lakeshore to discuss the pipeline route. The Town of Lakeshore did not identify any concerns with Union's chosen route. Union retained the services of Azimuth Environmental to review the proposed route of the pipeline and prepare an Environmental Report ("ER"). The ER can be found at Schedule 12. An open house to give the general public an opportunity to review the project and provide
<ol> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> </ol>	<ul><li>58.</li><li>59.</li><li>60.</li></ul>	Ruscom River Road will be removed and a new pipeline installed in generally the same location, the full route selection was not completed. Union met with municipal officials of the Town of Lakeshore to discuss the pipeline route. The Town of Lakeshore did not identify any concerns with Union's chosen route. Union retained the services of Azimuth Environmental to review the proposed route of the pipeline and prepare an Environmental Report ("ER"). The ER can be found at Schedule 12. An open house to give the general public an opportunity to review the project and provide comments on the Project was held on September 26, 2013 at the Puce Sports and Leisure
<ol> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> </ol>	58. 59. 60.	Ruscom River Road will be removed and a new pipeline installed in generally the same location, the full route selection was not completed. Union met with municipal officials of the Town of Lakeshore to discuss the pipeline route. The Town of Lakeshore did not identify any concerns with Union's chosen route. Union retained the services of Azimuth Environmental to review the proposed route of the pipeline and prepare an Environmental Report ("ER"). The ER can be found at Schedule 12. An open house to give the general public an opportunity to review the project and provide comments on the Project was held on September 26, 2013 at the Puce Sports and Leisure Centre in Puce, Ontario. Twelve people attended the open house and asked general questions

1 concerning the location of the new pipeline within road allowance, abandonment of the 2 existing pipeline and general construction methods. 61. The ER identified possible Species at Risk habitat along the route and Union is working with 3 the Ministry of Natural Resources to develop mitigation practices that will ensure there will be 4 no long term environmental impacts. 5 6 62. The ER was submitted to the Ontario Pipeline Coordinating Committee ("OPCC") on 7 December 12, 2013. Copies were also submitted to local municipalities, government agencies, First Nations and Métis. Summaries of the report were provided to all directly 8 affected landowners and copies were also submitted to anyone who requested a copy. A 9 summary of the comments and Union's response will be provided in Schedule 13 as they are 10 received. 11 12 63. Union will implement a program dealing with environmental inspection. This program will ensure that the recommendations in the ER are followed. An inspector trained in 13 environmental issues will monitor construction activities and ensure that all activities comply 14 15 with the mitigation measures found in the ER. 16 64. The total estimated environmental mitigation costs associated with the construction of the

proposed facilities are \$266,000. A breakdown of these costs can be found at Schedule 14.
The environmental costs are included in the Project costs.

Inion has discussed the project with the Essex Region Conservation Authority and the
 Ministry of Natural Resources and will continue to work with them throughout the project to
 secure any necessary permits. Union expects to obtain the necessary permits and
 authorizations prior to construction.

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1	66.	With respect to watercourses, Union will adhere to the agreement with the Department of
2		Fisheries and Oceans – Ontario great Lakes Area (DFO- OGLA/UGL AGREEMENT 2088).
3		Under the agreement Union conducts watercourse crossings using a specific set of conditions
4		and mitigation measures without DFO review. There are 14 water courses associated with the
5		Project that will be crossed using the directional drill or dam and pump method. The necessary
6		permits will be obtained from the Essex Region Conservation Authority.
7	<u>Firs</u>	t Nation and Métis Nation
8	67.	Union has a long standing practice of consulting with First Nations and Métis Nation, and has
9		programs in place whereby Union works with them to ensure they are aware of Union's
10		projects and have the opportunity to participate in both the planning and construction phases
11		of the project.
12	68.	Union has an extensive data base and knowledge of First Nations and Métis Nation
13		organizations in Ontario and consults with the Tribal organizations and the data bases of the
14		Ministry of Natural Resources, Ministry of Aboriginal Affairs and Aboriginal Affairs and
15		Northern Development Canada to ensure consultation is carried out with the most appropriate
16		groups.
17	69.	Union has signed a General Relationship Agreement with the Métis Nation of Ontario which
18		describes Union's commitments to the Métis Nation when planning and constructing pipeline
19		projects.

70. The following First Nations and Métis Nation were notified by letter regarding the Project on
three separate occasions:

- August 29, 2013: Project commencement notification letters were sent out
- September 13, 2013: Notification of the Public Information session to be held on September
- 3 26 2013 were sent out;
- October 23, 2013: Project status update letters were sent out.

Title	First Name	Last Name	Agency	Address	City	Prov	Postal
Chief	Christopher	Plain	Aamjiwnaang First Nation	978 Tashmoo Ave	Sarnia	ON	N7T 7H5
Ms.	Sharilyn	Johnston	Aamjiwnaang First Nation	978 Tashmoo Ave	Sarnia	ON	N7T 7H5
Chief	Thomas	Bressette	Chippewas of Kettle and Stony Point	6247 Indian Lane, RR#2	Forest (Kettle & Stony Point FN	ON	NON 1J0
Mr.	Mark	Bowler	Métis Nation of Ontario	500 Old St. Patrick Street, Unit 3	Ottawa	ON	K1N 9G4
Chief	Burton	Kewayosh	Walpole Island First Nation	117 Tahgahoning Road	Wallaceburg	ON	N8A 4K9
Mr.	Dean	Jacobs	Walpole Island First Nation	R.R.#3	Wallaceburg	ON	N8A 4K9
Chief	Louise	Hillier	Caldwell First Nation	14 Orange Street, P.O. Box 388	Leamington	ON	N8H 3W3
Chief	Joe	Miskokomon	Chippewas of the Thames	320 Chippewas Road, RR#1	Muncey	ON	NOL 1Y0
Chief	Greg	Peters	Moravian of the Thames	14760 Schoolhouse Road, RR 3	Thamesville	ON	NOP 2K0
Chief	Roge	Thomas	Munsee- Delaware Nation	289 Jubilee Rd, RR 1	Muncey	ON	NOL 1Y0
Chief	Joel	Abram	Oneida Nation of the Thames	2212 Elm Ave.	Southwold	ON	NOL 2G0

5

- 6 71. Union has not received any requests for further information or formal consultations from the
  7 First Nations or Métis Nation that were notified.
- 8 72. Copies of the correspondence that were sent to the First Nations and Métis Nation can be
  9 found in Schedule 15.
- 10 73. During construction, Union has inspectors in the field who are available to First Nation's and
- 11 Métis Nation as a primary contact to discuss and review any issues that may arise during
- 12 construction.

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





# TOTAL ESTIMATED PIPELINE CAPITAL COSTS

# PANHANDLE LINE REPLACEMENT PROJECT

Pipeline and Equipment		
NPS 20 Steel Pipe, Coated 13,700 metres	\$ 2,085,000	
Valves, Fittings and Miscellaneous Material	\$ 79,000	
Total Pipeline and Equipment		\$ 2,164,000
Construction and Labour		
Lift 13,700 of NPS 16 & Lay 13,700 metres of NPS 20 Steel Pipe Miscellaneous Contract Labour	\$ 16,072,000	
Company Labour, Inspection, X-Ray, Construction Survey, Legal, Environmental, Archeology, and Permitting	\$ 4,198,000	
Easements, Lands, Damages & Regulatory	\$ 2,983,000	
Total Construction and Labour		\$ 23,253,000
Subtotal Estimated Pipeline Capital Costs - 2014 Construction		\$ 25,417,000
Contingencies		\$ 3,812,000
Interest During Construction		\$ 368,000
Total Estimated Pipeline Capital Costs - 2014 Construction		\$ 29,597,000

# **Panhandle Replacement Project**

# **DESIGN AND PIPE SPECIFICATIONS**

# **Design Specifications: NPS 20**

-	Class 1, 2 and Class 3
-	Class 3
-	0.8
-	0.700
-	0.625
-	6040 kPa
-	4140 kPa (current)
-	6040 kPa (future)
-	Water
-	9060 kPa
-	PN 100
-	1.2 m

# **Pipe Specifications:**

Size	-	NPS-20
Outside Diameter	-	508 mm
Wall Thickness	-	6.4 mm
Grade	-	483 MPa
Туре	-	Electric Resistance Weld or DSAW
Description	-	C.S.A. Standard Z245.1-07
Category	-	Cat. II, M5C
Coating	-	Fusion Bond Epoxy
% SMYS	-	49.68%

# NPS 16 Panhandle Replacement Project (2014) Pipeline Construction Schedule

Task Name			Ñ	013								201	4							2015	
	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Environmental Assessment and										<u> </u>											
Approvals																					
Engineering																					
Obtain Land Rights																					
Pre-construction Survey																					
Material Acquisition																					
File Application										<u> </u>											
OEB Approval																					
Construction Survey																					
Construction and Testing																					
Clean-Up																					
In-Service																	•	Nov. 15			
Latest Possible In-Service																	•	•	Dec. 1		



### 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?

### GENERAL TECHNIQUES AND METHODS OF CONSTRUCTION

- 1. Union Gas Limited ("Union") will provide its own inspection staff to enforce Union's construction specifications and *Ontario Regulation 210/01 under the Technical Standards and Safety Act 2000, Oil and Gas Pipeline Systems.*
- 2. Pipeline construction is divided into several crews that create a mobile assembly line. Each crew performs a different function, with a finished product left behind when the last crew has completed its work.
- 3. Union's contract specifications require the contractor to erect safety barricades, fences, signs or flashers, or to use flag persons as may be appropriate, around any excavation across or along a road.
- 4. It is Union's policy to restore the areas affected by the construction of the pipeline to "as close to original condition" as possible. As a guide to show the "original condition" of the area, photos and/or a video will be taken before any work commences. When the clean up is completed, the approval of the landowner or appropriate government authority is obtained.
- 5. Construction of the pipeline includes the following activities:

### Locating Running Line

6. Union establishes the location where the pipeline is to be installed ("the running line"). For pipelines within road allowances, the adjacent property lines are identified and the running line is set at a specified distance from the property line. For pipelines located on private easement, the easement is surveyed and the running line is set at the specified distance from the edge of the easement. The distance from the start of the pipeline (or other suitable point) is marked on the pipeline stakes and the drawings.

### **Clearing and Grading**

7. The right-of-way is prepared for the construction of the pipeline. When required, bushes, trees and crops are removed and the ground leveled. When required, the topsoil is stripped and stored, and/or sod is lifted.

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### **Removing Existing Pipeline**

8. The existing trench is excavated exposing the existing pipeline. The spoil material is placed onto the easement, separate from the topsoil. The existing NPS 16 pipeline is removed from the trench, cut into sections and trucked off site. The trench is then backfilled.

### **Abandoning Existing Pipeline**

9. The existing pipe within road allowance and in environmentally sensitive areas can be abandoned in place. The abandoned sections are capped and filled with grout, a low density concrete.

### **Stringing**

10. The joints of pipe are laid end-to-end on supports that keep the pipe off the ground to prevent damage to the pipe coating.

### Welding

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

### **Burying**

12. Pipe may be buried using either the trench method or the trenchless method. All utilities that will be crossed or paralleled by the pipeline are located by the appropriate utility prior to installing the pipeline. Prior to trenching, all such utilities will be hand-located or hydro vacuumed.

**Trench Method:** Trenching is done by using a trenching machine or hoe excavator depending upon the ground conditions. Provisions are made to allow residents access to their property, as required. All drainage tiles that are cut during the trench excavation are flagged to signify that a repair is required. All tiles are measured and recorded as to size, depth, type and quality. This information is kept on file with Union. If a repair is necessary in the future, Union will have an accurate method of locating the tile. Next, the pipe is lowered into the trench. For steel pipe, the pipe coating is tested using a high voltage electrical tester as the pipe is lowered into the trench. All defects in the coating are repaired before the pipe is lowered in. Next, if the soil that was excavated from the trench is suitable for backfill, it is backfilled. If the soil is not suitable for

backfill (such as rock), it is hauled away and the trench is backfilled with suitable material such as sand. After the trench is backfilled, drainage tile is repaired.

**Rock Excavation:** Rock in solid beds or masses will be removed by "Hoe Ram", where practical. Where rock that is too hard to "Hoe Ram" is encountered, blasting will be permitted in accordance to Union's construction procedures and the *Canadian Explosives Act*. The contractor shall obtain all necessary permits and shall comply with all legal requirements in connection with the use, storage and transportation of explosives.

**Trenchless Method:** Trenchless methods are alternate methods used to install pipelines under railways, roads, sidewalks, trees and environmentally sensitive areas. The trenchless method proposed for the NPS 16 pipeline is directional drilling. This method involves setting up a receiving hole and an exit hole, drilling a pilot hole on the design path, reaming the pilot hole larger by passing a cutting tool and pulling the pipe back through the bored hole.

### <u>Tie-Ins</u>

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

### **Cleaning and Testing**

14. To complete the construction, the pipeline is cleaned, tested in accordance with Union's specifications using water.

### **Restoration**

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

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Z	H H H H H H H H H H H H H H H H H H H	200 P	IMENSION FROM & OF PROPOSED PS 16 PANHANDLE PIPELINE TO SOUTH BASE OF HYDRO TOWER IZ+568.0	АПТИРТАМ	i	ZZ			#216 A			Z
Σ	- 15.24m - 44.12m - 44.12m - 15.24m - 15.24m - 44.12m - 44.12m - 15.24m - 12.25m - 1	CROSS SECTION DRAW			150 METRES 500 METRES	ΣΣ	LAKESHORE ROCHESTER)			R014643 R014643 		Σ
]		PROPOSED NPS 20 -			50 100 200 250		TY OF PHICAL TOWNSHIP OF		#217 X 25.02m	BLANKE	С 2014 2017 2017 2017 2017 2017 2017 2017 2017	



		PER	MA	NENT EAS	EMENT	TEMP	OF	RARY EAS	SEMENT
& ADDRESS	PROPERTY DESCRIPTION	Dime	ens	ions (Metre	es) Area	Dimen	sio	ns (Metr	es) Area
		Length	x	Width	Hectares	Length	x	Width	Hectares
	DIN: 75005 0048 (B)	25 m		9m	0.026	21m		12m	0.024
	PIN: 75006-0048 <b>(R)</b> PT LT 5 CON WEST OF PUCE MAIDSTONE BTN WALLACE LINE RD & W PUCE RIVER RD.; LAKESHORE	35m	х	8m	0.026	31m	x	12m	0.034
	PIN: 75006-0049 PT LT 5 CON WEST OF RIVER PUCE MAIDSTONE BTN WALLACE LINE RD & W PUCE RIVER RD; LAKESHORE					30m	x	15m	0.045
	PIN: 75006-0092 <b>(R)</b> PT LT 5 CON EAST OF RIVER PUCE MAIDSTONE; PT LT 5 CON WEST OF RIVER PUCE MAIDSTON BTN W PUCE RIVER RD & E PUCE RD EXCEPT R257437; LAKESHORE	542m	x	8m	0.433	244m 20m	x x	12m 10m	0.292 0.040
	PIN: 75006-0093 PT LT 5 CON WEST RIVER PUCE MAIDSTONE PT 5 12R3936 LAKESHORE					30m	х	15m	0.045
	PIN: 75006-0127 PT LT 5 CON EAST OF RIVER PUCE MAIDSTONE AS IN R1090638; LAKESHORE AMENDED 2003/01/16 BY LAND REGISTRAR #7 PIN: 75005-0609	2339m	×	8m	1.871	30m 2346m	x x	15m 12m	2.839
	PT LT 5 EAST OF RIVER PUCE MAIDSTONE AS IN MB9722 LAKESHORE PIN; 75005-1730					30m	x	15m	0.045
	PT LT 5 CON EAST OF RIVER PUCE MAIDSTONE S IN R682728 SAVE & EXCEPT PT 1 PL 12R24681 LAKESHORE					30m 30m 30m 2348m	x x x x	15m 15m 15m 4m	0.045 0.045 0.045 0.939
	PIN: 75031-0222 PT LT 1 CON BTN RIVER PUCE & BELLE RIVER MAIDSTONE; PT 2 CON BTN RIVER PUCE & BELLE RIVER MAIDSTON; PT LT 3 CON BTN RIVE PUCE & BELLE RIVER MAIDSTONE AS IN MB9624, MB9631, MB9633, MB10246; MB10755; S/T R164343, R852176 LAKESHORE	37m	x	8m	0.0296	31m 237m	x x	13m 20m	0.040
	PIN: 75031-0886 PT LOT 3 CON BTN RIVER PUCE & BELLE RIVER MAIDSTONE AS IN R280825, EXCEPT PT 1 ON 12R10925, 12R14122 & 12R21530; LAKESHORE					30m 444m	x x	15m 5.71m	0.045 0.253
	PIN: 75031-0253 PT LOT 2 CON BTN RIVER PUCE & BELLE RIVER MAIDSTONE PTS 7 & 8, 12R6848; S/T R1047314; LAKESHORE					120m	x	5.71m	0.068
	PIN: 75031-0252 PT LT 2 CON BTN RIVER PUCE & BELLE RIVER MAIDSTONE AS IN R832110; S/T MB20421; LAKESHORE					113m	x	5.71m	0.064
	PIN: 75031-0251 PT LT 2 CON BTN RIVER PUCE & BELLE RIVER MAIDSTONE AS IN R384120 (FIRSTLY); S/T MB19518, MB20425; LAKESHORE					30m 228m	x x	15m 5.71m	0.045 0.1301
	PIN: 75031-0250 PT LT 1 CON BTN RIVER PUCE & BELLE RIVER MAIDSTONE AS IN R1143023; S/T MB19493; MB20422 LAKESHORE					30m 228m	x x	15m 5.71m	0.045 0.1301
	PIN: 75031-0249 PT LT 1 CON BTN RIVER PUCE & BELLE RIVER MAIDSTONE; AS IN R784448 (THIRDLY); S/T MB20461 LAKESHORE					30m 229m	x x	25m 5.71m	0.075 0.1307
	PIN: 75030-0060 PT LTS 3 & 4, CON 1 WBR AS IN R106039 LYING W OF W BELLE RIVER & PT 2, PL 12R21966 SAVE AND EXCEPT PT 1, PL 12R21966; LAKESHORE; S/T EASE OVER PT 2, PL 12R21966 AS IN R19477; PARTIALLY SURRENDERED BY R626145					30m 1543m 1423m	x x x	15m 8.76m 15m	0.045 1.351 2.134
	PIN: 75030-0048 PT LTS 3 & 4, CON 1 WBR AS IN R106039 LYING W OF W BELLE RIVER EXCEPT PT 1, PL 12R325; PT 1. 12R1398; PT 1 12R12064; PARTIALLY SURRENDERED BY R626145; S/T R241082 LAKESHORE					135m 72m	x x	41m 6m	0.553 0.043
	PIN: 75030-0042 <b>(R)</b> PART LOT 3 CON EBR ROCHESTER; LAKESHORE								
	PROPERTY DESCRIPTION	PER	ANENT EAS	EMENT	TEMPORARY EASEMENT				
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NAME & ADDRESS		Dime	ions (Metr	es) Area	Dimensions (Metres) Area				
		Length	X I	Width	Hectares	Length	x I	Width	Hectares
	PIN: 75029-0298 PT LT 3 CON 1 EBR ROCHESTER AS IN R437149 (PARCEL 2) W OF PT 1 & 2, 12R424 EXCEPT PT 3, 12R424; T/W R437149; T/W R563252; S/T R014639 PARTIALLY SURRENDERD BY R527858; S/T EXECUTION 96-02723, IF ENFORCEABLE; S/T EXECUTION 98-03061, IF ENFORCEABLE; S/T EXECUTION 98-01107, IF ENFORCEABLE; S/T EXECUTION 98-03086, IF ENFORCEABLE; S/T EXECUTION 98-03086, IF ENFORCEABLE; LAKESHORE	476m	x	15.24m	0.725	475m 476m	x	8.76m 8.76m	0.416 0.417
		22		45.24	0.025	22		0.76	0.02
	PIN: 75029-0296 PT LT 3 CON 1 EBR ROCHESTER AS IN RO8928 (SECONDLY) & PT 1, 2 & 3, 12R424 EXCEPT R320132 & PT 11, 12R1482; S/T RO8928; S/T R563252; S/T RO14639 PARTIALLY SURRENDERED BY R527858; LAKESHORE	23m	x	15.24m	0.035	23m	x	8.76m	0.02
	PIN: 75029-0827 PART LOT 3 CON EBR ROCHESTER AS IN R437149 E OF PTS 1 & 2 ON 12R424; LAKESHORE T/W R437149; T/W R563252, S/T RO14639 PARTIALLY SURRENDERED BY R527528 EXCEPPT PTS 1 & 2 12R20311, PTS 1-4 12R22166	538m	x	15.24m	0.823	30m 105m 1432m	x x x	15m 8.76m 8.76m	0.045 0.091 1.254
	PIN: 75029-0826 PART LOT 3 CON EBR ROCHESTER DESIGNATED AS PARTS 1,2,3 & 4 ON 12R22166; LAKESHORE T/W R437149; S/T RO14639 PARTIALLY SURRENDERED BY R527858					30m 30m 295m	x x x	15m 15m 8.76m	0.045 0.045 0.258
	PIN: 75047-0152 PT LT 5 CON BTN RUSCOM RIVER & BELLE RIVER ROCHESTER AS IN R1303472 (N OF CANADIAN PACIFIC RAILWAY); PT LT 6 CON BTN RUSCOM RIVER & BELLE RIVER ROCHESTER; PT LT 7 CON BTN RUSCOM RIVER & BELLE RIVER ROCHESTER AS IN R969945, R1291377 (N OF CANADIAN PACIFIC RAILWAY) EXCEPT PT 1 & 2 12R8783; PT LT 8 CON BTN RUSCOM RIVER & BELLE RIVER ROCHESTER PT 2-4 12R3029 EXCEPT PT 8,9,10,11,13 12R13682 S/T R1303472; S/T RO14642, RO14720; LAKESHORE					30m 30m 30m 30m 30m 30m 30m 1461m	× × × × × × ×	15m 15m 15m 15m 15m 15m 8.76m	0.045 0.045 0.045 0.045 0.045 0.045 0.045 1.279
	PIN: 75047-0153		-			30m	x	15m	0.045
	PT LT 5 CON BTN RUSCOM RIVER & BELLE RIVER ROCHESTER AS IN R1478215; S/T RO14623 PARTIALLY SURRENDERED BY R624489; LAKESHORE					142m	x	8.76m	0.124
	PIN: 75048-0019 PT LT 4 CON BTN RUSCOM RIVER & BELLE RIVER ROCHESTER AS IN R1484073; S/T RO14638; LAKESHORE					20m 198m	x x	15m 8.76m	0.300 0.173
	PIN: 75048-0018 PT LT 4 CON BTN RUSCOM RIVER & BELLE RIVER ROCHESTER PT 1 12R2580; S/T RO14640; LAKESHORE					98m	x	8.76m	0.085
	PIN: 75048-0017 PT LT 4 CON BTN RUSCOM RIVER & BELLE RIVER ROCHESTER AS IN R015215 S OF R09132; S/T RO14641; LAKESHORE					99m	x	8.76m	0.085
	PIN: 75048-0016 PT LT 3 CON BTN RUSCOM RIVER & BELLE RIVER ROCHESTER AS IN R1307906 BTN TECUMSEH RD & CANADIAN PACIFIC RAILWAY; S/T RO14638; LAKESHORE					131m	x	8.76m	0.114
	PIN: 75048-0015 PT LT 3 CON BTN RUSCOM RIVER & BELLE RIVER ROCHESTER AS IN R936089 (SECONDLY); LAKESHORE					132m 30m	x x	8.76m 15m	0.115 0.045
	PIN: 75048-0014 PT LT 3 CON BTN RUSCOM RIVER & BELLE RIVER ROCHESTER AS IN R663207 (SECONDLY); S/T RO13654; LAKESHORE					130m 30m	x x	8.76m 15m	0.113 0.045

		PER	ANENT EAS	EMENT	TEMPORARY EASEMENT				
NAME & ADDRESS	PROPERTY DESCRIPTION	Dime Length	<b>ions (Metr</b> Width	<b>es) Area</b> Hectares	Dimensions (Metres) Area Length x Width Hectares				
									-
	PIN: 75048-0175 PT LT 2 CON BTN RUSCOM RIVER & BELLE RIVER ROCHESTER AS IN R713599 BTN TECUMSEH RD & CANADIAN PACIFIC RAILWAY; S/T RO14622; ROCHESTER					101m	x	8.76m	0.088
	PIN: 75048-0013 PT LT 2 CON BTN RUSCOM RIVER & BELLE ROCHESTER AS IN R963640 S OF R09133; S/T R014688; ST EXECUTION 94-02713, IF ENFORCEABLE; LAKESHORE					101m	×	8.76m	0.088
	PIN: 75048-0012 PT LT 2 CON BTN RUSCOM RIVER & BELLE RIVER ROCHESTER AS IN R956751 (SECONDLY); S/T RO14876; LAKESHORE					200m	x	8.76m	0.18
	PIN: 75048-0011 PT LT 1 CON BTN RUSCOM RIVER & BELLE RIVER ROCHESTER AS IN R1232675 (SECONDLY), R013621 S OF R09051, R550547 (SECONDLY) EXCEPT R09265; S/T R014624, R014634, R014649; LAKESHORE					300m 30m	x x	8.76m 15m	0.262 0.045
	PIN: 75048-0010 PT LT 1 CON BTN RUSCOM RIVER & BELLE RIVER ROCHESTER PT 3, 4 12R8131; S/T RO14626; LAKESHORE					30m 92m	x x	15m 8.76m	0.045 0.080
	PIN: 75049-0145 PT LT 5-6 CON WRR ROCHESTER AS IN R343024 (FIRSTLY); LAKESHORE					30m 25m 1092m	x x x	15m 30m 8.76m	0.045 0.045 0.956
	PIN: 75049-0144 PT LT 5 CON WRR ROCHESTER AS IN RO8941 (FIRSTLY) LAKESHORE	172m	x	8m	0.137				
	PIN:75049-0276 PT LT 5 CON WRR ROCHESTER AS IN RO8958 (FIRSTLY); LAKESHORE	57m	x	8m	0.045				
	PIN: 75049-0274 PT LT 6 CON WRR ROCHESTER PT 1, 2 & 3, 12R18187; S/T INTEREST IN R1510421; S/T RO14652; LAKESHORE					10m	x	20m	0.02
	PIN: 75049-0232 PT LT 6 CON WRR ROCHESTER PT 1, 2 & 3, 12R18187; S/T INTEREST IN R1510421; S/T RO14652; LAKESHORE					119.5m	x	40.5m	0.483
	PIN: 75049-0273 PT LT 6 CON WRR ROCHESTER PT 6 12R18187 LAKESHORE					25m 120m	x	8m 8m	0.02 0.096
	PIN: 75049-0229 <b>(R)</b> PT LT 6 CON WRR ROCHESTER; RDAL BTN LT 6 & 7 CON WRR ROCHESTER LAKESHORE					16m	x	45m	0.072
	PIN: 75049-0107 PT LT 5 CON ERR ROCHESTER AS IN R1072747; S/T RO14643 LAKESHORE PIN: 75049-0233								
	PT LT 5-6 CON ERR ROCHESTER AS IN R996187 & R1094218; S/T R014643; LAKESHORE								
	PIN: 75051-0068 PT LT 5 CON ERR ROCHESTER AS IN R1415325; S/T RO14643; LAKESHORE	30m	x	30m	0.12	185 220 405	x x x	25 25 5.71	0.4624 0.3402 0.2309





# PIPELINE EASEMENT

Between

(the "Easement")

(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**: Click here to enter text. **Legal Description**: Click here to enter text. (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**: Click here to enter text. **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 said 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 Address (Transferor) Enter Text here 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)

#### 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 Choose an item., 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.



1.

- "originator" of complaint or issue may be landowner or company representative Parties indicated in heavy outlined boxes shall assume responsibility for actions subsequently required in the resolution process. Parties identified in brackets may only be required for resolution or specific technical concerns 2.
- 3. "L.R.A." refers to Landowner Relations Agent

### LANDOWNER COMPLAINT RESOLUTION SYSTEM EXPLANATION OF PROCESS CHART

## **Key Definitions**

**Originator** – The originator of a complaint or issue is the landowner or Union Gas personnel who initiates a complaint or issue by making it known to the Landowner Relations Agent or a company inspector.

**Landowner Relations Agent (LRA)** – A person assigned on a full time or part time basis to record, monitor, and ensure follow-up on any complaint or issue received by Union related to construction, to address questions and concerns of the landowners, and to act as a liaison between landowners and the contractor and engineering personnel.

**Issue** – A concern of a landowner which can be resolved within three (3) working days. Immediate action is taken to resolve such matters.

**Complaint** – A concern of a landowner which cannot be resolved within three (3) working days.

**Commitment** – If an issue or complaint is resolved at any level of the Complaint Resolution system through the efforts and liaison activities of the Landowner Relations Agent or other personnel, the resolution is recorded to ensure proper future follow-up.

Outside Arbitration – includes the Board of Negotiation, O.M.B., and O.E.B.

**Others** – refers to other regulatory bodies and tribunals

#### Levels of the Complaint Resolution System

- **Level 1:** The LRA or company inspector receives issues or complaints, and the following can happen:
  - a) Immediate action could be arranged by the LRA or inspector to resolve the issue or complaint; or
  - b) A complaint can be resolved by a commitment in which case the LRA is responsible for arranging for the committed action and having the commitment recorded in the Complaint Resolution system; or
  - c) If a complaint cannot be resolved through the efforts of the LRA or inspector, the applicable form (Form 3150) is completed and then recorded, and the complaint is referred to **Level 2**.
- **Level 2:** The LRA and the Construction Supervisor work together to develop a resolution for the complaint, and the following can happen:

- a) the complaint may be resolved with the originator by action or commitment and the action or commitment is recorded in the Complaint Resolution System; or
- b) if the complaint cannot be resolved, the originator is notified, the non-resolution is recorded, and the complaint is referred to **Level 3**.
- **Level 3:** The Manager, Lands and the Project Manager work together to develop a resolution for the complaint, and the following can happen:
  - a) complaint may be resolved with the originator by action or commitment and the action or commitment is recorded in the Complaint Resolution System; or
  - b) if the complaint cannot be resolved, the originator is notified, the non-resolution is recorded, and the complaint is referred to **Level 4**;

When complaints reach this level, status reports are generated through the Complaint Resolution System and are forwarded to Senior Management.

- Level 4: Senior Management (with possible input from the Legal and Risk and Claims Departments) attempts to develop a resolution to the complaint, and the following can happen:
  - a) the complaint may be resolved with the originator by action or commitment and the action or commitment is recorded in the Complaint Resolution System; or
  - b) if the complaint cannot be resolved, the originator is notified, the non-resolution is recorded, and the complaint is referred to **Level 5**;
- **Level 5:** Involves the resolution of a complaint by outside arbitration or others, and the following will happen:

A final resolution will occur, all parties will be advised, and any action required will be arranged by the LRA or other Lands Department personnel.

Note: the Complaint Resolution System is used to generate final reports to the Ontario Energy Board

Summary of Comments

## TO BE FILED WHEN RECEIVED

## TOTAL ESTIMATED ENVIRONMENTAL COSTS

#### NPS 16 PANHANDLE REPLACEMENT PROJECT PATILLO ROAD TO COMBER SIDEROAD

## **Pre-Construction**

Environmental Assessment Archaeology Soil Sampling Hearing Costs (Environmental Consultant) Surveys (fish, wildlife, plants) Permits	\$	70,000 200,000 6,000 5,000 15,000 <u>25,000</u>	
Total Pre-Construction		\$	<u>321,000</u>
Construction			
Environmental Inspection Water Well Monitoring	\$	55,000 <u>20,000</u>	
Total Construction		\$	<u>75,000</u>
Post Construction			
Tree Replacement	\$	<u>20,000</u>	
Total Post Construction		\$	<u>20,000</u>
Total Estimated Environmental Costs		\$	<u>416,000</u>

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Environmental Assessments & Approvals

August 29, 2013

AEC 13-176

Aamjiwnaang First Nation 978 Tashmoo Avenue Sarnia, ON N7T 7H5

Attention: Ms. Sharilyn Johnston Environmental Officer

#### RE: Environmental Report Commencement - Union Gas Limited Panhandle Pipeline Replacement - Patillo Road to Comber Sideroad

Dear Ms. Johnston:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch natural gas transmission pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The proposed project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

The study area is located in the County of Essex in the Town of Lakeshore. Please see attached map Figure 1. The study encompasses lands in proximity to the Hydro One transmission corridor and the Canadian Pacific Railway right-of-way.

A Public Information Centre regarding the proposed project is planned to be held in late summer of 2013. A notice will be placed in local newspapers and First Nations, Métis Nation, interested agencies and directly affected landowners will be informed by mail.



If you have any questions, regarding the environmental report process or this Project, please do not hesitate to contact the undersigned or John Bonin, Union Gas Limited, <u>JBonin/auniongas.com</u> 519-539-8509, extension 5021063. Thank you for your cooperation.

Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.



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Environmental Assessments & Approvals

August 29, 2013

AEC 13-176

Aamjiwnaang First Nation 978 Tashmoo Avenue Sarnia, ON N7T 7H5

Attention: Chief Chris Plain

#### RE: Environmental Report Commencement - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Chief Plain:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch natural gas transmission pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The proposed project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.

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Environmental Assessments & Approvals

August 29, 2013

AEC 13-176

Caldwell First Nation P.O. Box 388 Leamington, ON N8H 3W3

Attention: Chief Louise Hillier

### RE: Environmental Report Commencement - Union Gas Limited Panhandle Pipeline Replacement - Patillo Road to Comber Sideroad

Dear Chief Hillier:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch natural gas transmission pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The proposed project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Environmental Assessments & Approvals

August 29, 2013

AEC 13-176

Chippewas of Kettle and Stony Point First Nation 6247 Indian Lane Kettle and Stony Point First Nation, ON NON 1J1

Attention: Chief Thomas Bressette

#### RE: Environmental Report Commencement - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Chief Bressette:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch natural gas transmission pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The proposed project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.

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Environmental Assessments & Approvals

August 29, 2013

AEC 13-176

Chippewas of the Thames First Nation 320 Chippewa Road Muncey, ON NOL 1Y0

Attention: Ms. Rolanda Elijah Director of Lands and Environment

#### RE: Environmental Report Commencement - Union Gas Limited Panhandle Pipeline Replacement - Patillo Road to Comber Sideroad

Dear Ms. Elijah:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch natural gas transmission pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The proposed project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Environmental Assessments & Approvals

August 29, 2013

AEC 13-176

Chippewas of the Thames First Nation 320 Chippewa Road Muncey, ON NOL 1Y0

Attention: Chief Joe Miskokomon

#### RE: Environmental Report Commencement - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Chief Miskokomon:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch natural gas transmission pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The proposed project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Your response would be appreciated by September 30th, 2013. If you have no concerns regarding the proposed project and/or its construction and you do not require any further correspondence regarding the project please indicate that in writing to the undersigned.

If you have any questions, regarding the environmental report process or this Project, please do not hesitate to contact the undersigned or John Bonin, Union Gas Limited, <u>JBonin@uniongas.com</u> 519-539-8509, extension 5021063. Thank you for your cooperation.

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Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.



Environmental Assessments & Approvals

August 29, 2013

AEC 13-176

Métis Nation of Ontario 75 Sherbourne Street Suite 311 Toronto, ON M5A 2P9

Attention: Mr. Mark Bowler Director of Lands Resources and Consultation

### RE: Environmental Report Commencement - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Mr. Bowler:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch natural gas transmission pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The proposed project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Environmental Assessments & Approvals

August 29, 2013

AEC 13-176

Moravian of the Thames First Nation R.R. #3 Thamesville, ON N0P 2K0

Attention: Chief Greg Peters

#### RE: Environmental Report Commencement - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Chief Peters:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch natural gas transmission pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The proposed project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.

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Environmental Assessments & Approvals

August 29, 2013

AEC 13-176

Munsee-Delaware First Nation RR#1 Muncey, ON NOL 1Y0

Attention: Chief Patrick Waddilove

#### RE: Environmental Report Commencement - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Chief Waddilove:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch natural gas transmission pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The proposed project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Environmental Assessments & Approvals

August 29, 2013

AEC 13-176

Oneida Nation of the Thames First Nation 2212 Elm Ave Southwold, ON NOL 2G0

Attention: Chief Joel Abram

### RE: Environmental Report Commencement - Union Gas Limited Panhandle Pipeline Replacement - Patillo Road to Comber Sideroad

Dear Chief Abram:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch natural gas transmission pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The proposed project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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All

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Environmental Assessments & Approvals

August 29, 2013

AEC 13-176

Walpole Island First Nation R.R. #3 Wallaceburg, ON N8A 4K9

Attention: Mr. Dean Jacobs Consultation Manager

#### RE: Environmental Report Commencement - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Mr. Jacobs:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch natural gas transmission pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The proposed project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.

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Environmental Assessments & Approvals

August 29, 2013

AEC 13-176

Walpole Island First Nation R.R. #3 Wallaceburg, ON N8A 4K9

Attention: Chief Burton Kewayosh Jr.

#### RE: Environmental Report Commencement - Union Gas Limited Panhandle Pipeline Replacement - Patillo Road to Comber Sideroad

Dear Chief Kewayosh Jr.:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch natural gas transmission pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The proposed project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.

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Environmental Assessments & Approvals

September 13, 2013

AEC 13-176

Walpole Island First Nation R.R. #3 Wallaceburg, ON N8A 4K9

Attention: Chief Burton Kewayosh Jr.

## RE: Information Session - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Chief Kewayosh Jr.:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch diameter natural gas transmission pipeline with a proposed new 20 inch diameter pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

We are currently undertaking the preliminary engineering studies to assess the alternatives for the pipeline design and location. The study area is located in the County of Essex in the Town of Lakeshore. Please see the attached map. The study area encompasses lands in proximity to the Hydro One transmission corridor and the Canadian Pacific Railway right-of-way.

To learn more, you are invited you to an Information Session which will be held on Sept. 26, 2013 at the Puce Sports & Leisure Centre located at 962 Old Tecumseh Road in Puce from 5-8 p.m.





If you have any questions, regarding the environmental report process or this Project, please do not hesitate to contact the undersigned or John Bonin, Union Gas Limited, <u>JBonin@uniongas.com</u> 519-539-8509, extension 5021063. Thank you for your cooperation.

Teal

Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.

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Environmental Assessments & Approvals

September 13, 2013

AEC 13-176

Aamjiwnaang First Nation 978 Tashmoo Avenue Sarnia, ON N7T 7H5

Attention: Chief Chris Plain

## RE: Information Session - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Chief Plain:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch diameter natural gas transmission pipeline with a proposed new 20 inch diameter pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.

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Environmental Assessments & Approvals

September 13, 2013

AEC 13-176

Moravian of the Thames First Nation R.R. #3 Thamesville, ON N0P 2K0

Attention: Chief Greg Peters

### RE: Information Session - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Chief Peters:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch diameter natural gas transmission pipeline with a proposed new 20 inch diameter pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.

EB-2013-0420 Schedule 15 Page 32 of 60



Environmental Assessments & Approvals

September 13, 2013

AEC 13-176

Chippewas of the Thames First Nation 320 Chippewa Road Muncey, ON NOL 1Y0

Attention: Chief Joe Miskokomon

## RE: Information Session - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Chief Miskokomon:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch diameter natural gas transmission pipeline with a proposed new 20 inch diameter pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.

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Environmental Assessments & Approvals

September 13, 2013

AEC 13-176

Oneida Nation of the Thames First Nation 2212 Elm Ave Southwold, ON NOL 2G0

Attention: Chief Joel Abram

### RE: Information Session - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Chief Abram:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch diameter natural gas transmission pipeline with a proposed new 20 inch diameter pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Environmental Assessments & Approvals

September 13, 2013

AEC 13-176

Caldwell First Nation P.O. Box 388 Leamington, ON N8H 3W3

Attention: Chief Louise Hillier

## RE: Information Session - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Chief Hillier:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch diameter natural gas transmission pipeline with a proposed new 20 inch diameter pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Environmental Assessments & Approvals

September 13, 2013

AEC 13-176

Munsee-Delaware First Nation RR#1 Muncey, ON N0L 1Y0

Attention: Chief Patrick Waddilove

## RE: Information Session - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Chief Waddilove:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch diameter natural gas transmission pipeline with a proposed new 20 inch diameter pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.



Environmental Assessments & Approvals

September 13, 2013

AEC 13-176

Chippewas of Kettle and Stony Point First Nation 6247 Indian Lane Kettle and Stony Point First Nation, ON N0N 1J1

Attention: Chief Thomas Bressette

### RE: Information Session - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Chief Bressette:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch diameter natural gas transmission pipeline with a proposed new 20 inch diameter pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.



Environmental Assessments & Approvals

September 13, 2013

AEC 13-176

Walpole Island First Nation R.R. #3 Wallaceburg, ON N8A 4K9

Attention: Mr. Dean Jacobs Consultation Manager

#### RE: Information Session - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Mr. Jacobs:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch diameter natural gas transmission pipeline with a proposed new 20 inch diameter pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.



Environmental Assessments & Approvals

September 13, 2013

AEC 13-176

Métis Nation of Ontario 75 Sherbourne Street Suite 311 Toronto, ON M5A 2P9

Attention: Mr. Mark Bowler Director of Lands Resources and Consultation

### RE: Information Session - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Mr. Bowler:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch diameter natural gas transmission pipeline with a proposed new 20 inch diameter pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.



Environmental Assessments & Approvals

September 13, 2013

AEC 13-176

Chippewas of the Thames First Nation 320 Chippewa Road Muncey, ON NOL 1Y0

Attention: Ms. Rolanda Elijah Director of Lands and Environment

## RE: Information Session - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Ms. Elijah:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch diameter natural gas transmission pipeline with a proposed new 20 inch diameter pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Environmental Assessments & Approvals

September 13, 2013

AEC 13-176

Aamjiwnaang First Nation 978 Tashmoo Avenue Sarnia, ON N7T 7H5

Attention: Ms. Sharilyn Johnston Environmental Officer

### RE: Information Session - Union Gas Limited Panhandle Pipeline Replacement – Patillo Road to Comber Sideroad

Dear Ms. Johnston:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas to prepare an Environmental Report (ER) for the proposed Panhandle Replacement – Patillo Road to Comber Sideroad Pipeline Project. The project will include the replacement of an existing 16 inch diameter natural gas transmission pipeline with a proposed new 20 inch diameter pipeline from Patillo Road to the Comber Sideroad in the Town of Lakeshore. The project is part of our ongoing maintenance program that will ensure the continued safe operation of Union Gas' Panhandle natural gas pipeline system.

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Paul Neals, B.Sc.Agr. Vice-President (705) 721-8451 paul@azimuthenvironmental.com. Attach.

From: Sent: To: Subject: Bonin, John October-23-13 1:31 PM Chief Tom Bressette Panhandle Pipeline Replacement Project

On August 29 and September 13, 2013, Union Gas provided you with information on a project to replace approximately 13,500 meters of existing 16 inch diameter natural gas pipeline located in the Municipality of Lakeshore, from West Puce River Road to East Ruscom River road, near the town of Belle River. The study encompasses lands in proximity to the Hydro One

transmission corridor and the Canadian Pacific Railway right-of-way. The work is being undertaken as part of an ongoing pipeline maintenance and integrity management program to ensure that Union Gas pipelines remain in safe operating condition at all times. Union Gas regularly inspects the interior and exterior of its pipelines and based on the result of these assessments, Union Gas will take the appropriate action to correct any issues that are found.

Here is an update on the project:

- 1) The Environmental study has been initiated and is scheduled for completion in early November
- 2) The Archeology study is planned for the fall of 2013 (based on weather)
- 3) Target filing for the Ontario Energy Board is December 2013
- 4) Construction timeframe is scheduled for May to November 2014

If you have any questions or comments please feel free to call or email me

## John Bonin

From: Sent: To: Subject: Bonin, John October-23-13 1:32 PM Sharilyn Johnston Panhandle Pipeline Replacement Project

On August 29 and September 13, 2013, Union Gas provided you with information on a project to replace approximately 13,500 meters of existing 16 inch diameter natural gas pipeline located in the Municipality of Lakeshore, from West Puce River Road to East Ruscom River road, near the town of Belle River. The study encompasses lands in proximity to the Hydro One

transmission corridor and the Canadian Pacific Railway right-of-way. The work is being undertaken as part of an ongoing pipeline maintenance and integrity management program to ensure that Union Gas pipelines remain in safe operating condition at all times. Union Gas regularly inspects the interior and exterior of its pipelines and based on the result of these assessments, Union Gas will take the appropriate action to correct any issues that are found.

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## John Bonin

From: Sent: To: Subject: Bonin, John October-23-13 1:31 PM Caldwell First Nation (cfnchief@live.com) Panhandle Pipeline Replacement Project

On August 29 and September 13, 2013, Union Gas provided you with information on a project to replace approximately 13,500 meters of existing 16 inch diameter natural gas pipeline located in the Municipality of Lakeshore, from West Puce River Road to East Ruscom River road, near the town of Belle River. The study encompasses lands in proximity to the Hydro One

transmission corridor and the Canadian Pacific Railway right-of-way. The work is being undertaken as part of an ongoing pipeline maintenance and integrity management program to ensure that Union Gas pipelines remain in safe operating condition at all times. Union Gas regularly inspects the interior and exterior of its pipelines and based on the result of these assessments, Union Gas will take the appropriate action to correct any issues that are found.

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## John Bonin

From: Sent: To: Subject: Bonin, John October-23-13 1:29 PM Chief Gregory Peters Panhandle Pipeline Replacement Project

On August 29 and September 13, 2013, Union Gas provided you with information on a project to replace approximately 13,500 meters of existing 16 inch diameter natural gas pipeline located in the Municipality of Lakeshore, from West Puce River Road to East Ruscom River road, near the town of Belle River. The study encompasses lands in proximity to the Hydro One

transmission corridor and the Canadian Pacific Railway right-of-way. The work is being undertaken as part of an ongoing pipeline maintenance and integrity management program to ensure that Union Gas pipelines remain in safe operating condition at all times. Union Gas regularly inspects the interior and exterior of its pipelines and based on the result of these assessments, Union Gas will take the appropriate action to correct any issues that are found.

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## John Bonin

From:	
Sent:	
To:	
Subject:	

Bonin, John October-23-13 1:29 PM Chief Joel Abram Panhandle Pipeline Replacement Project

On August 29 and September 13, 2013, Union Gas provided you with information on a project to replace approximately 13,500 meters of existing 16 inch diameter natural gas pipeline located in the Municipality of Lakeshore, from West Puce River Road to East Ruscom River road, near the town of Belle River. The study encompasses lands in proximity to the Hydro One

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# John Bonin

Bonin, John
October-23-13 1:30 PM
Chief Chris Plain
Panhandle Pipeline Replacement Project

On August 29 and September 13, 2013, Union Gas provided you with information on a project to replace approximately 13,500 meters of existing 16 inch diameter natural gas pipeline located in the Municipality of Lakeshore, from West Puce River Road to East Ruscom River road, near the town of Belle River. The study encompasses lands in proximity to the Hydro One

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If you have any questions or comments please feel free to call or email me

## John Bonin

From: Sent: To: Subject: Bonin, John October-23-13 1:29 PM Chief Burton Kewayosh Panhandle Pipeline Replacement Project

On August 29 and September 13, 2013, Union Gas provided you with information on a project to replace approximately 13,500 meters of existing 16 inch diameter natural gas pipeline located in the Municipality of Lakeshore, from West Puce River Road to East Ruscom River road, near the town of Belle River. The study encompasses lands in proximity to the Hydro One

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If you have any questions or comments please feel free to call or email me

## John Bonin

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Pan

Bonin, John October-23-13 1:28 PM Chief Roger Thomas Panhandle Pipeline Replacement Project

On August 29 and September 13, 2013, Union Gas provided you with information on a project to replace approximately 13,500 meters of existing 16 inch diameter natural gas pipeline located in the Municipality of Lakeshore, from West Puce River Road to East Ruscom River road, near the town of Belle River. The study encompasses lands in proximity to the Hydro One

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## John Bonin

On August 29 and September 13, 2013, Union Gas provided you with information on a project to replace approximately 13,500 meters of existing 16 inch diameter natural gas pipeline located in the Municipality of Lakeshore, from West Puce River Road to East Ruscom River road, near the town of Belle River. The study encompasses lands in proximity to the Hydro One

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If you have any questions or comments please feel free to call or email me

## John Bonin

From:	Bonin, John
Sent:	October-23-13 1:30 PM
To:	Chief Joe Miskokomon
Subject:	FW: Panhandle Pipeline Replacement Project

On August 29 and September 13, 2013, Union Gas provided you with information on a project to replace approximately 13,500 meters of existing 16 inch diameter natural gas pipeline located in the Municipality of Lakeshore, from West Puce River Road to East Ruscom River road, near the town of Belle River. The study encompasses lands in proximity to the Hydro One

transmission corridor and the Canadian Pacific Railway right-of-way. The work is being undertaken as part of an ongoing pipeline maintenance and integrity management program to ensure that Union Gas pipelines remain in safe operating condition at all times. Union Gas regularly inspects the interior and exterior of its pipelines and based on the result of these assessments, Union Gas will take the appropriate action to correct any issues that are found.

Here is an update on the project:

- 1) The Environmental study has been initiated and is scheduled for completion in early November
- 2) The Archeology study is planned for the fall of 2013 (based on weather)
- 3) Target filing for the Ontario Energy Board is December 2013
- 4) Construction timeframe is scheduled for May to November 2014

If you have any questions or comments please feel free to call or email me

# John Bonin

From:	Bonin, John
Sent:	October-23-13 1:32 PM
To:	Dean Jacobs
Subject:	Panhandle Pipeline Replacement Project

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# John Bonin