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May 17, 2013

VIA COURIER AND EMAIL

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

Re: Enbridge Gas Distribution Inc. ("Enbridge")
EB-2011-0323 Alliston Reinforcement Project
Conditions of Approval - Interim Monitoring Report

In the Ontario Energy Board's Decision issued on January 23, 2012, the Conditions of Approval required Enbridge to file the Interim Monitoring Report for the project 6 months after the in-service date. The final in-service date for the Alliston Reinforcement project was December 19, 2012 and requires Enbridge to file the Interim Monitoring Report by May 17, 2013.

Enclosed please find the interim monitoring report for the project.

Any future developments will be communicated to the Board.

If you have any questions, please contact the undersigned.

Yours truly,

(Original Signed)

Stephanie Allman
Regulatory Coordinator

cc: Zora Crnojacki, OPCC Chair
Neil McKay, Manger, Facilities Applications, Ontario Energy Board (via courier and email)

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**ENBRIDGE GAS DISTRIBUTION INC.
POST-CONSTRUCTION
ENVIRONMENTAL MONITORING REPORT NO.1
ALLISTON PIPELINE REINFORCEMENT PROJECT
EB-2011-0323**

Prepared by
Enbridge Gas Distribution Inc.
May 8, 2013

1.0 Introduction

In January of 2012 the Ontario Energy Board (“OEB”) under docket number EB-2011-0323 granted Enbridge Gas Distribution Inc. (“Enbridge”) Leave to Construct an nominal pipe size (NPS) 8 (8-inch outer diameter) pipeline to reinforce the existing natural gas distribution network in Alliston and surrounding communities. Prior and subsequent to obtaining approval, Enbridge conducted the following studies to select a pipeline route, identify potential impacts resulting from construction, and prepare mitigative measures to minimize environmental and socio-economic impacts.

<u>Report Title</u>	<u>Conducted by:</u>	<u>Date</u>
Alliston Pipeline Reinforcement Project Environmental and Cumulative Effects Assessment	Dillon Consulting Limited	May 2011
The 2011 Stage 1 Archaeological Assessment of the Proposed Alliston Reinforcement Project, Town of New Tecumseh, Town of Bradford West Gwillimbury, Town of Innisfil and Township of Essa Simcoe County, Ontario	D.R. Poulton and Associates Inc.	May 2011
Alliston Pipeline Reinforcement Project Tree Inventory and Condition Assessment	Dillon Consulting Ltd.	July 2011
The 2011 Stage 2 Archaeological Assessment of the Proposed Alliston Reinforcement Project, Town of New Tecumseh, Town of Bradford West Gwillimbury, Town of Innisfil and Township of Essa. Simcoe County, Ontario	D.R. Poulton and Associates Inc.	August 2011
Geotechnical Investigation Proposed HDD Crossings Towns of Cookstown, New Tecumseh and Essa, Ontario	Golder Associates	November 2011

Construction of the Alliston Reinforcement Pipeline Project began on July 26, 2012 and was completed and energized on December 19, 2012.

This report has been prepared in accordance with OEB EB-2011-0323 Board Staff Proposed Conditions of Approval as described below:

- 3.1 Both during and after construction, Enbridge shall monitor the impacts of construction, and shall file four copies of both an interim and a final monitoring report with the Board. The interim monitoring report shall be filed within six months of the in-service date, and the final monitoring report shall be filed within fifteen months of the in-service date. Enbridge shall attach a log of all complaints that have been received to the interim and final monitoring reports. The log shall record the times of all complaints received, the substance of each complaint, the actions taken in response, and the reasons underlying each action.
- 3.2 The interim monitoring report shall confirm Enbridge adherence to Condition 1.1 and shall include a description of the impacts noted during construction and the actions taken or to be taken to prevent or mitigate the long-term effects of the impacts of construction. This report shall describe any outstanding concerns identified during construction.
- 3.3 The final monitoring report shall describe the condition of any rehabilitated land and the effectiveness of the mitigation measures undertaken. The results of the monitoring programs and analysis shall be included and any recommendations made as appropriate. Any deficiency in compliance with any of the Conditions of Approval shall be explained.

This report is limited to items that have been identified prior to May 6, 2013. Items addressed after this date will be identified in the final Post-Construction Environmental Monitoring Report. This report will summarize actual construction procedures and identify any significant deviations from proposed construction activities.

2.0 Project Description

The pipeline project was constructed to reinforce the existing natural gas distribution network in the community of Alliston, New Tecumseh. The reinforcement is necessary to meet the needs of residential, commercial and industrial customers in the township of New Tecumseh and surrounding area.

The pipeline originates at the Enbridge Cookstown Gate Station located at 4174 15th Line Road in Cookstown, Ontario. The pipeline proceeds west along Victoria Street to Dufferin Street where it turns north. It continues to Highway 89 where it turns west along the south side of Highway 89. It terminates at the southwest corner of Highway

89 and Sideroad 10. The pipeline is approximately 9 kilometers (km) in length. Appendix A shows the constructed pipeline within a regional context.

3.0 Environmental Inspection

In order to ensure that environmental commitments were honoured and that the best industry practices were used, a full time Chief Inspector was onsite. In general, the duties of the Chief Inspector included the following items:

- provide advice to the Project Manager, Construction Inspectors, and all construction personnel regarding compliance with environmental legislation, regulations and industry standards;
- provide advice regarding adherence to environmental specifications and commitments made in the previously mentioned documents and to regulatory agencies, including the OEB;
- provide advice on erosion protection measures to be taken in sensitive locations in vicinity of watercourse crossing;
- act as a liaison with environmental regulators, government agencies and interest groups;
- provide immediate advice regarding spill prevention and contingency; and,
- ensure appropriate waste disposal of any hazardous construction wastes.

An Enbridge Environment, Health and Safety (EHS) Specialist also conducted routine inspections of the ongoing construction to identify environmental issues which needed to be addressed and communicated these to the Project Manager.

4.0 Construction Effects and Mitigation Measures

Construction effects and mitigation measures which were implemented to minimize the potential effects from the construction of the Alliston Reinforcement Pipeline Project are summarized in Table 1. All activities were conducted in adherence to the contract documentation and Enbridge Construction Policies and Procedures.

Table 1

Construction Effects and Mitigation Measures

Activity	Duration	Potential Effect	Mitigation Measures
Vegetation Cover	Throughout Construction (July 26, 2012 to December 19, 2012)	Permanent removal of vegetation. Aesthetic degradation. Changes in surface drainage patterns affecting amount of water available. Changes to sunlight or wind exposure regimes.	All trees on the road allowance adjacent to roadways were identified prior to construction. Limits of work area marked to minimize encroachment into adjacent agricultural or vegetated areas. Majority of construction completed within existing road allowance.
Topsoil Handling	Throughout Construction	Disruption of surface and subsurface soils. Soil mixing may result in loss of productivity.	Care was taken to minimize mixing of subsoils. Topsoil was replaced on surface during restoration.
Watercourse Crossing	Throughout Construction	Disruption of watercourse through siltation and sedimentation. Erosion of channel banks and loss of vegetation cover. Contamination of surface water. Interruption of subsurface drainage along pipeline trench.	Crossing of the Cookstown Creek and several smaller watercourses were completed by directional drill. Watercourse crossing permits were obtained from the Nottawasaga Valley Conservation Authority. Sediment fencing installed to prevent sedimentation and siltation. Geotechnical assessment completed to assist in developing crossing profile.
Traffic Control	Throughout Construction	Exposure of construction crews to vehicular traffic.	Contractor ensured MTO Book 7 traffic control plan has been completed and has been set up in accordance with the prescribed Traffic Layout.
Road Crossings	Throughout Construction	Restricted access to businesses and residences.	Several road crossings, including 10th Sideroad, Wesson Road, 15 th Sideroad, 20 th Sideroad, Highway 27 and Cook Street were completed by directional drill or open cut. Warning signs and barricades set up to increase visibility and prevent public access.

Table 1

Construction Effects and Mitigation Measures (Continued)

Activity	Duration	Potential Effect	Mitigation Measures
Noise	Throughout Construction	Disturbances to sensitive receptors (i.e. residents, seniors' homes, schools).	Construction equipment conformed to guidelines for sound and emission levels.
Archaeological Monitoring	Throughout Construction	Disturbance and potential destruction of archaeological artifacts.	D.R. Poulton & Associates Limited conducted Stage 1 and 2 Archaeological Assessments prior to construction to identify areas of high potential for artifacts. Construction within limits of ROW will minimize potential for encountering archaeological artifacts. No artifacts were encountered.
Trenching and Excavation	Throughout Construction	Open trenches present a hazard to vehicular and pedestrian traffic. Restricts access. Sedimentation into roadside ditches.	Protective barricades (i.e., snow fence, sediment fence, jersey barriers, and straw bales) were erected around trenches and excavations during construction activities.
Utility Crossings	Throughout Construction	Minimum distance separation from buried or above-ground services may not provide sufficient room within a road right-of-way (R.O.W.) for the installation of a gas pipeline; damage to utilities may inconvenience landowners.	In accordance with Enbridge Policies and Procedures, locates were obtained prior to any excavation work. Warning signs posted in vicinity of overhead power lines.
Spills	Throughout Construction	Contamination of air, soil, surface water or ground water. Inconvenience to landowners and public	As required, contractor had spill containment kits at the project site. There were no reportable spills during construction.

Table 1

Construction Effects and Mitigation Measures (Continued)

Hydrostatic Testing	October 26, 2012	Disruption of water supply to landowners or emergency services. Uncontrolled discharge of water could cause erosion, sedimentation and contamination of surface water supplies.	Permission from the Town of Innisfil was obtained to take water from a municipal fire hydrant; over land discharge was obtained from the land owner. No significant adverse environmental effects resulted from the hydrostatic testing and dewatering procedures.
Pipe Energizing	December 19, 2012	Inconvenience and/or negative health effects to nearby landowners and the public.	Energizing was completed in accordance with Enbridge Policies and Procedures.
Clean-Up	Throughout Construction	Restores the pipeline easement to pre-construction conditions.	Clean up activities were conducted in accordance with the Enbridge Construction and Maintenance Manual. Remaining restoration of the road allowance along the route to be completed by Enbridge. Results of the clean-up program will be examined again in the spring of 2014.

5.0 Residual Issues

Overall, construction activities were carried out with a high level of respect for the environment.

Since portions of the pipeline Right-Of-Way (R.O.W) are located within the road allowance, there may, in the future, be some degradation caused by vehicular traffic and littering that is not a result of construction.

There are five unresolved issues that remain at the time of completion of this report (May 2013) for the Alliston Pipeline Reinforcement Project. These issues will need to be addressed prior to the final monitoring of the pipeline route.

5.1 Vegetation

There are numerous trees along Victoria Street West within the road allowance where the pipeline was installed. Portions of this road allowance and easement were open cut. The trees were monitored and appear to be in good health. Enbridge will continue to periodically monitor these trees but it does not foresee future problems. Note: tagged trees along the south side of Victoria St E., East of Cook Street were removed by a subdivision developer after our pipe was installed. Enbridge and the contractor did not harm these trees.

5.2 Restoration and Revegetation

Vegetation has re-established along portions of the road allowance where it was disturbed due to construction. However, a significant number of sections will require additional restoration and revegetation, these include:

- Highway 89, east and west of 10th Sideline
- 5856 Highway 89 (south side of roadway)
- Highway 89, approximately 800 meters (m) east of 10th Sideline
- Highway 89, approximately 1030 m east of 10th Sideline

- Highway 89, east of Wesson Road
- Highway 89, at 8 Line (south side of roadway)
- Highway 89, approximately 430 m east of 9 Line)
- Highway 89, west of 20th Sideroad
- Highway 89, approximately 350 m west of 11th Line
- Highway 89, approximately 110 m west of 11th Line

These sections will require monitoring over the next year to identify the success of revegetation efforts and to identify areas that will require further efforts.

5.3 Erosion Control Devices

Erosion control devices such as silt fences and straw bales have been installed where required to control any erosion and sedimentation concerns identified. The sediment fences and straw bales at the following locations require either repair or replacement with coir logs:

- Highway 89, east and west of 10th Sideroad
- Highway 89, at Simcoe Road 56 (south side of roadway)
- Highway 89, west of 20 Sideroad
- Highway 89, at 11th Line
- Highway 89, multiple locations with straw bales lining ditch

5.4 Watercourse Crossing

Erosion control devices such as silt fences and straw bale check dams have been installed where required to control any erosion and sedimentation concerns identified. Sediment fencing should be repaired at the Cookstown Creek crossing.

5.5 Soil Settlement and Erosion

Soil settlement, evidenced by sinkholes, has occurred in the vicinity of the valve stem located on the south side of Highway 89, at 5856 Highway 89. Regrading, along with revegetation, should be undertaken to restore the appropriate grade.

Erosion, evidenced by rills and gullies in the bank and ditch of the road allowance, has occurred along several sections of the south side of Highway 89 (refer to locations in Section 5.2). Consultation with an environmental consultant will be undertaken to develop a solution to restore the road allowance (including bank and ditches).

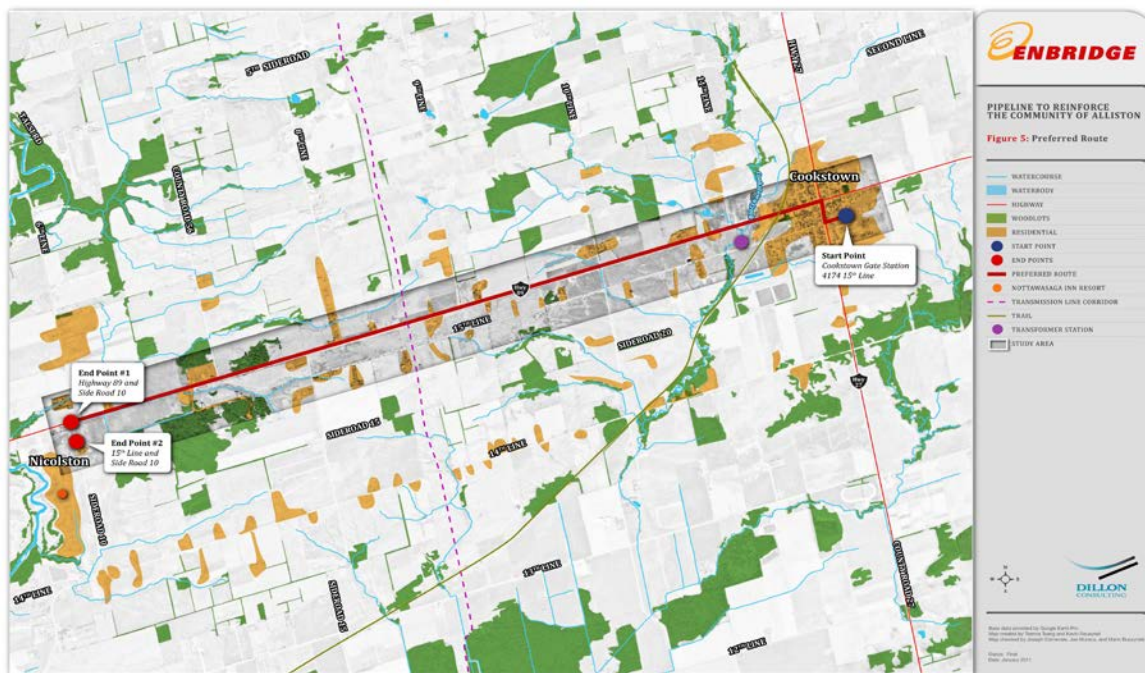
6.0 Landowner Comments

Landowner comments can be found as Appendix C.

7.0 Summary

This Interim Post-Construction Environmental Monitoring Report has been prepared in accordance with the OEB Decision Docket No.EB-2011-0323. It documents construction and clean-up activities conducted in the fall and winter of 2012. In general, measures implemented during construction and clean-up have been moderately successful. Outstanding issues will be addressed in the Final Post-Construction Environmental Monitoring Report that will be prepared in the spring of 2014. This report will document continued remediation activities if needed, and address additional issues that may arise.

APPENDIX A
PIPELINE ROUTE MAP



APPENDIX B

PHOTO LOG (May 6, 2013)



Photo 1 – Victoria Street, looking west from Cookstown Gate Station

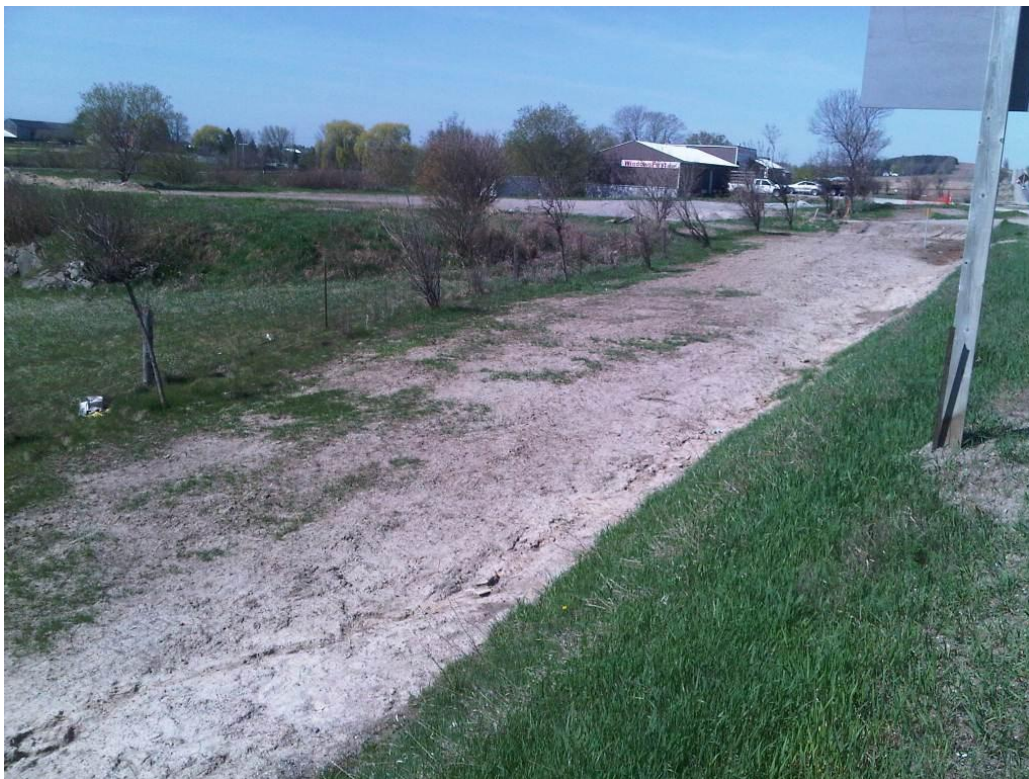


Photo 2 – Highway 89, looking west from Cookstown Creek



Photo 3: Sediment fence; west of Cookstown Creek



Photo 4: Highway 89, looking west from Cookstown Creek



Photo 5 – Highway 89, looking east towards 20th Sideroad

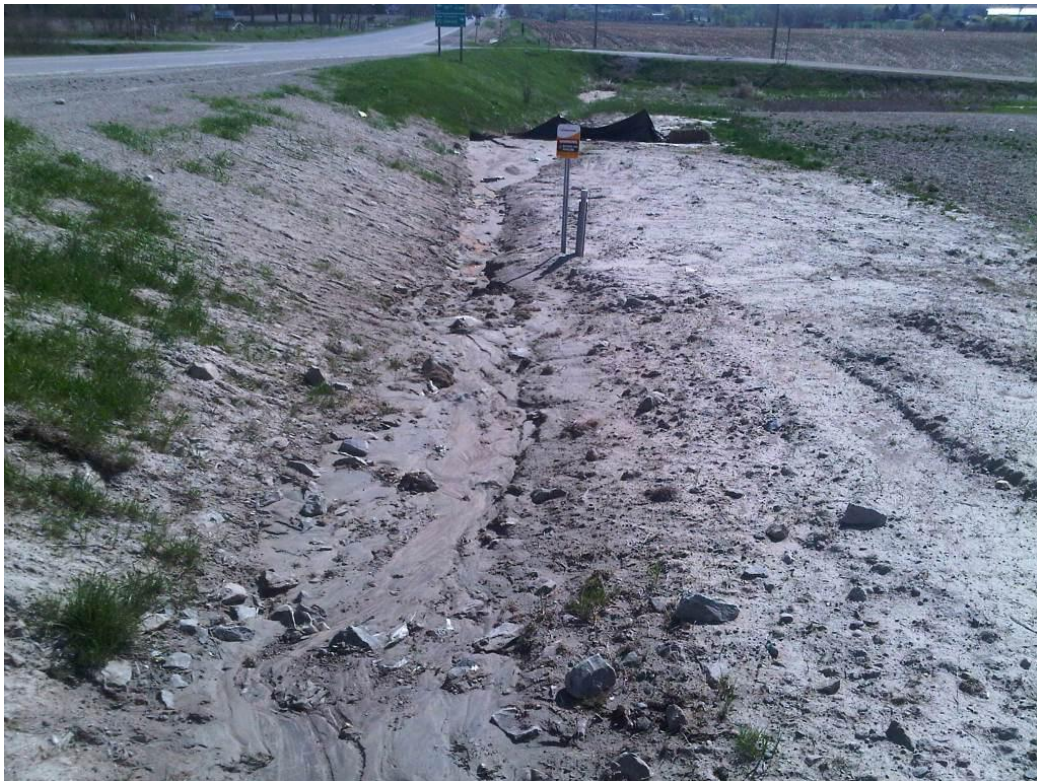


Photo 6 – Highway 89, looking east towards 20th Sideroad



Photo 7 – Highway 89, looking west from 20th Sideroad



Photo 8 – Highway 89, looking east in vicinity of 9 Line



Photo 9 – Highway 89, in vicinity of 9 Line – Obstructed culvert



Photo 10 – Highway 89, looking west in vicinity of 8 Line



Photo 11 – Highway 89, looking east in vicinity of 8 Line



Photo 12 – Highway 89, looking west at 15th Sideroad



Photo 13 – Highway 89, looking east at Simcoe County Road 56



Photo 14 – Highway 89, looking east at Simcoe County Road 56



Photo 15 – Culvert at 5629 Highway 89; looking west



Photo 16 – Highway 89; looking north, west from Wesson Road



Photo 17 – Highway 89; looking west towards 10th Sideline



Photo 18 – Highway 89; looking east from 10th Sideline (settlement around valve)



Photo 19 – Highway 89; looking east from 10th Sideline



Photo 20 – Highway 89; looking east towards 10th Sideline

APPENDIX C
Landowner Comments

Landowner Comments

Time and Date of Complaint	Substance of Complaint	Actions Taken and Rationale
March 13, 2013, 8:30 am	The Chief Inspector received a complaint from TWD (MTO's contractor) that water was backing up on to a field just east of the east driveway, immediately west of Sideroad 20.	Through discussion with the landowner, it was claimed there was a culvert crossing Highway 89. Upon field investigation by EGD's contractor an unknown, unidentified MTO culvert was found buried and filled with sediment. The culvert was unknown at the time of construction and EGD's contractor did not protect it during construction. Since the culvert is now exposed, the culvert is now flowing water. This will be monitored to ensure drainage continues and an extension to culvert will be installed if needed.
March 18, 2013, 4:39 pm	Land owner Mr. Robert Regoris claimed a roughed-in driveway existed at a parcel of land west of 20 th Sideroad (no street address) prior to construction and wanted it restored to pre-construction condition to assist with the sale of the land for development. This was not an MTO approved driveway and MTO requested the driveway not be restored. There is another driveway to the property to the east on a more level section of Hwy 89. Mr. Regoris stated if the driveway was not restored, he would take all legal action to have it restored for selling features of the property.	MTO and TDW were consulted. As instructed by MTO and TWD, EGD's contractor will install a non-MTO standard driveway. The driveway will be in better condition than original but not at MTO standard. A 20-24 ft culvert will be added in the ditch and covered with gravel to restore the driveway and allow for drainage through the culvert.