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May 16, 2016

VIA RESS, EMAIL AND COURIER

Ms. Kirsten Walli
Ontario Energy Board
P.O. Box 2319
2300 Yonge Street, 27th Floor
Toronto, ON M4P 1E4

Dear Ms. Walli:

**Re: Enbridge Gas Distribution Inc. ("Enbridge")
EB-2014-0378 – Wilkesport Wells – Licence to Drill
Revised Conditions of Approval – Interim Monitoring Report**

In accordance with the Ontario Energy Board's Vary Order dated November 11, 2015 and the revised conditions of approval, attached please find four copies of Enbridge's Interim Monitoring report.

Please contact me if you have any questions.

Yours truly,

[original signed]

Shari Lynn Spratt
Supervisor Regulatory Proceedings

Attachment

cc: Ms. Zora Crnojacki, OPCC Chair (via email)
Ms. Pascale Duguay, Manager Natural Gas Applications, Board (via email)

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**ENBRIDGE GAS DISTRIBUTION INC.
POST-CONSTRUCTION
INTERIM ENVIRONMENTAL MONITORING REPORT**

**TECUMSEH GAS STORAGE WELL TW#16H
EB-2014-0378**

Prepared by
Enbridge Gas Distribution Inc.
May, 2016

1.0 Introduction

On June 4, 2015 the Ontario Energy Board (“OEB”) under docket number EB-2014-0378 recommended granting the well drilling licences in the Wilkesport Pool: TW#15H (Horiz.#1), Sombra 3-15-XIII and TW#16H (Horiz.#1), Sombra 3-15-XII to the Ministry of Natural Resources and Forestry (“MNR”). Prior to the recommendation, Enbridge conducted the following studies to 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> |
|---|-----------------------------|--------------------|
| Environmental Report: Tecumseh Storage Enhancement Project – Storage Infill Drilling | Stantec Consulting Limited | March 2008 |
| Environmental Report Update Letter for Enbridge’s Wilkesport Natural gas storage wells TW15H and TW16H | Stantec Consulting Limited | February 2015 |
| Baseline Private Well Monitoring Program Wilkesport Natural Gas Storage Pool, Lambton County | Stantec Consulting Limited | February 2015 |
| Letter: Attention: Ministry of Natural Resources and Forestry Reference: Enbridge Wilkesport Wells TW15 and TW16 and NPS 16-inch Pipeline Updated Mitigation Plan | Stantec Consulting Limited | May 2015 |

Construction of this storage well began on June 15, 2015 and was completed on July 14, 2015. The storage well was commissioned on September 23, 2015.

On November 11, 2015, the OEB issued an order to vary the conditions of approval to extend the filing date of the Interim Monitoring Report of TW#16H from March 23, 2016 to May 23, 2016 and the Final Monitoring Report to May 23, 2017.

This report has been prepared in accordance with OEB EB-2014-0378 Board Staff Conditions of Approval (June 4, 2015) and Revised Conditions of Approval (November 11, 2015) 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 OEB. The interim monitoring report shall be filed no later than May 23, 2016 and the final monitoring report shall be filed no later than May 23, 2017. Enbridge shall attach a log of all complaints 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 such actions.
- 3.2 The interim monitoring report shall confirm Enbridge's 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 the rehabilitated land and the effectiveness of the mitigation measures undertaken. The results of the monitoring programs and analysis shall be included and 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 April 18, 2016. 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

TW #16H storage well is one of two horizontal injection/withdrawal wells drilled to replace deliverability lost due to the abandonment of five wells in the Wilkesport Storage Pool. The Wilkesport Storage Pool is located primarily under Lots 14 and 15 and Concession XIII in the Township of Sombra. TW#16H is located on the west side of Kimball Road, approximately 450 m south of White Line in the Township of Sombra, in the County of Lambton. Appendix A shows the storage well within a regional context.

3.0 Environmental Inspection

In order to ensure that environmental commitments were honoured a site inspection of the project area was performed by Stantec to evaluate the area for any Species at Risk individuals. In addition, a Project Manager was available for the duration of the project and a full time Wellsite Supervisor was onsite during construction.

The Project Manager was responsible for:

- providing advice regarding adherence to environmental specifications and commitments made in the previously mentioned documents and to regulatory agencies, including the OEB and MNRF;
- acting as a liaison with environmental regulators, government agencies and interest groups;

The Wellsite Supervisor was responsible for:

- providing advice to the Project Manager and all construction personnel regarding compliance with environmental legislation, regulations and industry standards;
- provide immediate advice regarding spill prevention and contingency (if necessary); and,
- ensure appropriate waste disposal of any non-hazardous and liquid industrial construction wastes.

4.0 Construction Effects and Mitigation Measures

Construction effects and mitigation measures which were implemented to minimize the potential effects from installation of gas storage well TW#16H are summarized in Table 1. Photos of TW#16H taken in April 2016 are found in Appendix B. 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 |
|--|-------------------------|---|--|
| Work on and to remove Vegetative Cover | Throughout Construction | Permanent removal of vegetation. Aesthetic degradation. Changes in surface drainage patterns affecting amount of water available. Changes to sunlight or wind exposure regimes. | Limits of work area marked to minimize encroachment into vegetated areas. |
| Topsoil Handling | Throughout Construction | Disruption of surface and subsurface soils. Soil mixing may result in loss of productivity. | Contractor stripped topsoil and stockpiled separately from subsoil. Mixing of soils was minimized. Segregated topsoil was replaced on surface following construction. Topsoil was tilled prior to cultivation. |
| Drilling in Bedrock | Throughout Construction | Large amounts of drill cuttings and fluids are encountered and removed from the drill hole. Rock materials in drill cuttings are mostly limestone and dolomite with some shale and salt. | Drill fluids were collected in holding tanks and allowed to settle. Fluid was recycled and used again. Remaining fluid and drill cuttings were solidified with a bonding agent and disposed of offsite according to MOECC and MNRF Regulations |
| Agricultural Drainage (Tile) | Throughout construction | Interruption to subsurface drainage during and after pipeline construction | No agricultural tile was encountered |
| Climate | Throughout Construction | Heavy rainfall may result in flooding of adjacent lands, erosion and compaction and rutting (if construction persists). High winds may erode loose soil material, including topsoil and create nuisance dust. | During wet soil conditions construction on agricultural lands were suspended. Work resumed only upon approval by the Project Manager. Nuisance dust was controlled by applying water to work area (if required). |
| Groundwater | Throughout Construction | During well drilling the water table may be breached and the supply of water to adjacent water wells be affected temporarily. | Pre and post construction monitoring of adjacent water wells was completed and no evidence of interference was noted. |
| Noise | Throughout Construction | Disturbances to sensitive receptors (i.e. residents). | Construction equipment conformed to Ministry of Labour guidelines for sound levels. No complaints regarding noise were received during construction. |
| 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. No spills were identified during construction. |
| Site Rehabilitation | Throughout Construction | Restores the storage well easement to pre-construction conditions. | Restoration activities were conducted in accordance with the Enbridge Construction Manual. |

| | | | |
|-------------------------|-------------------------|--|---|
| Pipe Energizing | September 2015 | Inconvenience and/or nuisance to nearby landowners and the public. Gas release to atmosphere | Energizing was completed in accordance with Enbridge Policies and Procedures to ensure efficiencies and minimize period of gas release. |
| Species at Risk Habitat | Throughout Construction | Disruption to Species at Risk Habitat | Mitigation measures were conducted in accordance to the Stantec Consulting Limited Letter dated May 2015 to the MNRF. No Species at Risk were encountered during the duration of construction |

5.0 Residual Issues

Overall, construction activities were carried out with a high level of respect for the environment. There are no unresolved issues that remain at the time of completion of this report for the TW#16H storage well.

6.0 Landowner Comments and Complaints

There were no landowner comments or complaints associated with the construction of the TW#16H storage well.

7.0 Summary

This Interim Post-Construction Environmental Monitoring Report has been prepared in accordance with the OEB Decision Docket No. EB-2014-0378. It documents construction and restoration activities completed as part of the drilling operation for gas storage well TH#16H and during the winter of 2015 and spring of 2016. In general, measures implemented during construction and site restoration have been successful. A Final Post-Construction Environmental Monitoring Report will be prepared in the spring of 2017. This report will document continued restoration activities if needed, and address additional issues that may arise.

APPENDIX A
STORAGE WELL LOCATION MAP

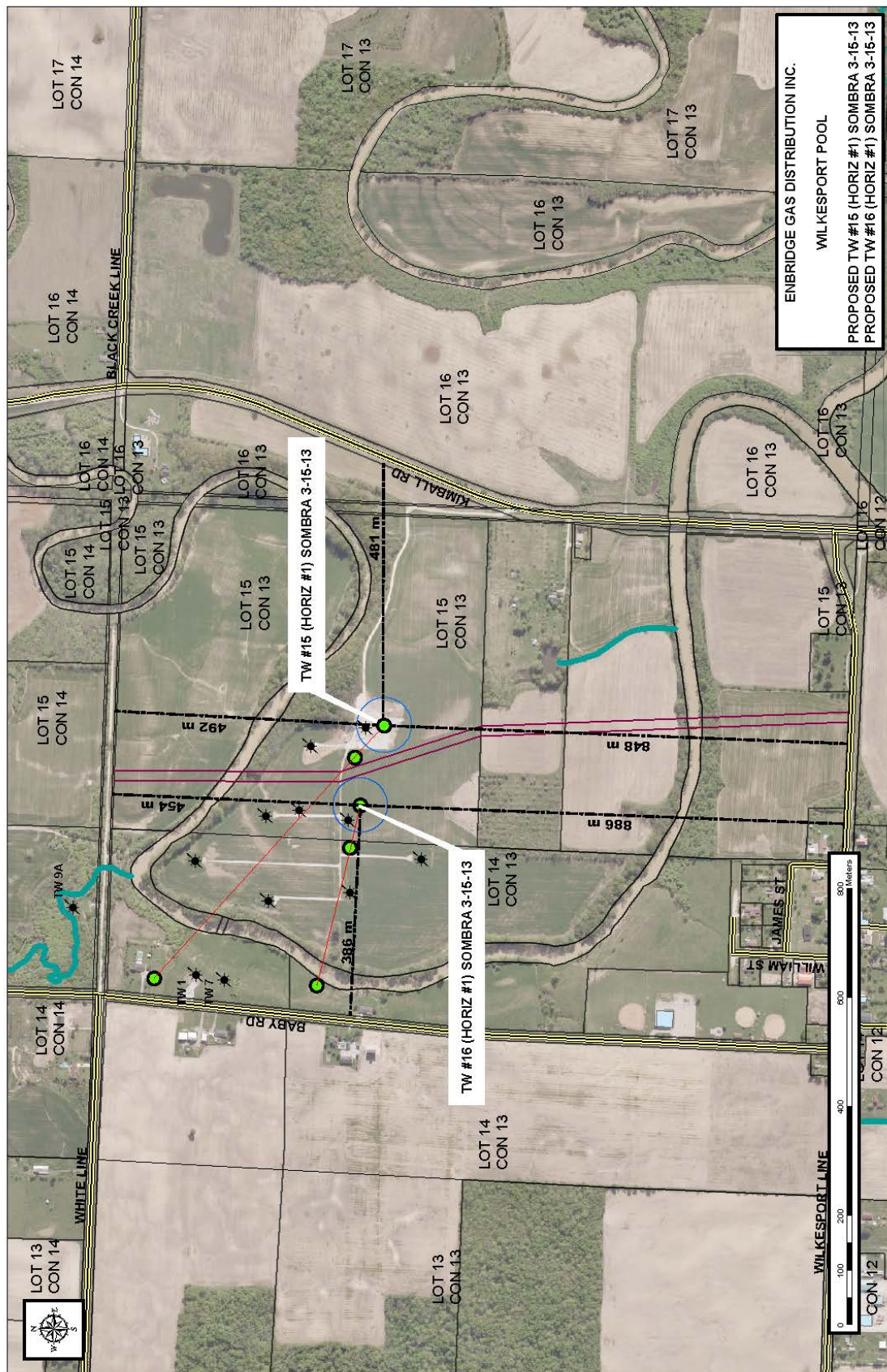


Figure 1: Location Map of Gas Storage Well TW#16 H

APPENDIX B

PHOTO LOG

Photo 1: TW#16H Looking South



Photo 2: TW#16H Looking East



Photo 3: TW#16H Looking North



Photo 4: TW#16H Looking West

