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#### **VIA COURIER**

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

Dear Ms. Walli:

Enbridge Gas Distribution Inc. ("Enbridge") Re:

**Storage Infill Drilling Application** 

Ontario Energy Board File No. EB-2007-0891/EB-2008-0387

**Final Monitoring Report** 

On January 23, 2009 the Ontario Energy Board (the "Board") issued the Decision with Reasons for the above noted proceeding. The Decision included the Conditions of Approval for the project.

In accordance with Sections 4.1 and 4.2 of the Conditions of Approval issued in the Board's Decision, the Board required that Enbridge file a final monitoring report within 15 months of the in-service date of the project.

The in-service date for the final component of the project (TWK#14) was June 22, 2010, which would require Enbridge to file the final monitoring report no later then September 22, 2011.

Enclosed please find the final monitoring report for the above noted project.

Enbridge has completed all the Conditions of Approval as listed in the Board Decision for this proceeding.



September 12, 2011 Ms. Kirsten Walli Page 2 of 2

If you have any further questions, please contact the undersigned.

Yours truly,

Bonnie Jean Adams Regulatory Coordinator

cc: Mr. Neil McKay, Ontario Energy Board, Manager, Facilities (via email)

Ms. Wendy Sullivan, Ministry of Natural Resources (via email)

### ENBRIDGE GAS DISTRIBUTION INC. POST-CONSTRUCTION ENVIRONMENTAL MONITORING REPORT NO.2

TECUMSEH GAS STORAGE WELL TW#14H EB-2007-0891 and EB-2008-0387

Prepared by Enbridge Gas Distribution Inc. September 12, 2011

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#### 1.0 Introduction

In the winter of 2009 the Ontario Energy Board ("OEB") under docket number EB-2007-0891 and EB-2008-0387 granted Enbridge Gas Distribution Inc. ("Enbridge") Leave to construct and operate a natural gas storage well (TW#14H) in the Wilkesport and Coveny Storage Pool. Prior to obtaining approval, Enbridge conducted the following studies to identify potential impacts resulting from construction, and prepare mitigative measures to minimize environmental and socio-economic impacts.

Report Title	Conducted by:	<u>Date</u>
Environmental Report: Tecumseh Storage Enhancement Project – Storage Infill Drilling	Stantec Consulting Limited	March 2008

Construction of this storage well began on May 4, 2010 and was completed on June 4, 2010. The storage well was commissioned on June 22, 2010.

On November 9, 2010, Enbridge filed a letter with the OEB requesting an extension to the filing date for the interim monitoring report until May 2011. The Interim Report was filed with the OEB on May 30, 2011.

This report has been prepared in accordance with OEB EB-2007-0891 and EB-2008-0387 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 and the Ministry of Natural Resources. The interim monitoring report shall be filed within six months of the inservice date, and the final monitoring report shall be filed within fifteen months of the inservice date. Enbridge shall attach a log of all comments and complaints that have been received to the interim and final monitoring reports. The log shall record the times of all comments and complaints received, the substance of each comment and 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 July 2011. This report will summarize actual construction procedures and identify any significant deviations from proposed construction activities.

#### 2.0 Project Description

Tecumseh Wilkesport #14H storage well is one component of the Storage Infill Drilling Project which is one part of the Tecumseh Storage Enhancement Project designed to meet demand for high deliverability storage services in Ontario. The Wilkesport Storage Pool is located primarily under Lots 14 and 15 and Concession XIII in the Township of Sombra. TW#14H is located on the west side of Kimball Road, approximately 800 m south of Black Creek 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 and that the best industry practices were used, a full time inspector was onsite. In general, the duties of the inspector included the following items:

- provide advice to the Project Manager 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 and Ministry of Natural Resources;

- 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.

#### 4.0 Construction Effects and Mitigation Measures

Construction effects and mitigation measures which were implemented to minimize the potential effects the construction of the TW#14H are summarized in Table 1. Photos of TW#14H taken in July 2011 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
Vegetation Cover	Throughout Construction (May 2010 - January 2011)	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.
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 was solidified with a bonding agent and disposed of according to MOE Regulations.

Table 1.

Construction Effects and Mitigation Measures

Activity	Duration	Potential Effect	Mitigation Measures
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 Chief Inspector. 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.	The location of the construction area was not in close proximity of the adjacent wells, therefore testing was not required as the wells would not have been affected.
Noise	Throughout Construction	Disturbances to sensitive receptors (i.e. residents).	Construction equipment conformed to guidelines for sound and emission levels.
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 the construction of the well.
Pipe Energizing	January 2011	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 storage well easement to pre-construction conditions.	Clean up activities were conducted in accordance with the Enbridge Construction Manual.

#### 5.0 Residual Issues

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

The Interim Monitoring Report filed on May 30, 2011, identified one outstanding issue regarding topsoil replacement in the vicinity of TW#14H. The topsoil has been replaced and the area reinstated for agricultural purposes.

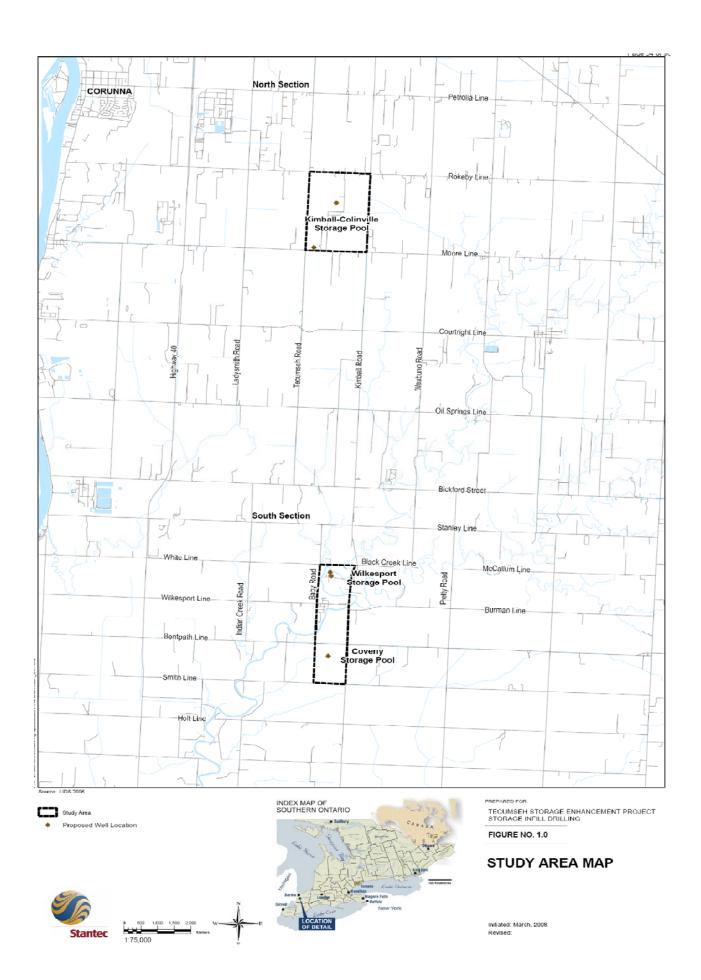
#### **6.0 Landowner Comments and Complaints**

There were no landowner comments or complaints associated with the construction of the TW#14H gas storage well.

#### 7.0 Summary

This Final Post-Construction Environmental Monitoring Report has been prepared in accordance with the OEB Decision Docket No. EB-2007-0891 and EB-2008-0387. It documents construction and clean-up activities during the months of January to March of 2011 and early summer of 2011. Measures implemented during construction and clean-up have been successful.

# APPENDIX A STORAGE WELL LOCATION MAP



## APPENDIX B PHOTO LOG



Photo 1 – TW#14H



Photo 2 – TW#14H



Photo 3: Looking north



Photo 4: TW#14H