

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

**TECUMSEH GAS STORAGE WELL TW#13H
EB-2007-0891 and EB-2008-0387**

Prepared by
Enbridge Gas Distribution Inc.
July 12, 2010

Table of Contents

Description

1.0 Introduction	Page 1
2.0 Project Description	Page 2
3.0 Environmental Inspection	Page 2
4.0 Construction Effects and Mitigation Measures	Page 3
5.0 Residual Issues	Page 5
6.0 Landowner Comments and Complaints	Page 5
7.0 Summary	Page 5

Appendices

APPENDIX A: STORAGE WELL LOCATION MAP	Page 7
Figure 1: Map of Location of Gas Storage Well TKC#61H	Page 8
APPENDIX B: PHOTOLOG	Page 9

1.0 Introduction

On June 2, 2008 the Ontario Energy Board (the “Board”) under docket number EB-2007-0891 issued the Decision with Reasons and issued a favorable report to the Ministry of Natural Resources (“MNR”), recommending the approval of the application to drill and operate a natural gas storage well (TW#13H) in the Wilkesport and Coveny Storage Pool. On December 5, 2008 Enbridge filed a revised application with the Board requesting approval to relocate TW#13H. On January 29, 2009 the Board issued a Decision with Reasons under docket number EB-2008-0387 which included a favorable report to the MNR, recommending the approval of the application to drill and operate natural gas storage well TW#13H. On January 26, 2009 the MNR issued the well license for the TW#13H natural gas storage well.

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:	Date
Environmental Report: Tecumseh Storage Enhancement Project – Storage Infill Drilling	Stantec Consulting Limited	March 2008

Construction began on January 6, 2009 and all clean up activities were completed by October 27, 2009.

The TW#13H natural gas storage well was commissioned on April 24, 2009.

The Final Post Construction Monitoring Report has been prepared in accordance with the Board’s EB-2007-0891 and EB-2008-0387 Board Staff Proposed Conditions of Approval as described below:

- 4.1 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 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 comments and complaints 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.

- 4.2 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.
- 4.3 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 June 2010. This report will summarize actual construction procedures and identify any significant deviations from proposed construction activities.

2.0 Project Description

Tecumseh Wilkesport #13H 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 Moore. TW#13H is located on the west side of Kimball Road, approximately 800 m south of Black Creek Line in the Township of Moore, 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#13H are summarized in Table 1. Photos of TW#13H taken in June 2010 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/ Drilling (January-October 2009)	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/ Drilling	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.

Table 1.

Construction Effects and Mitigation Measures

Activity	Duration	Potential Effect	Mitigation Measures
Bedrock	Throughout Construction/ Drilling	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.	Remaining drill fluids and cuttings 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.
Climate	Throughout Construction/ Drilling	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/ Drilling	During well drilling the water table may be breached and the supply of water to adjacent water wells be affected temporarily.	A cable tool rig was used to drill through fresh water horizons to reduce potential for contamination from drilling fluid. Enbridge was prepared to but did not have to implement its' Water Well Monitoring program and retain a hydrogeologist to assess the need for monitoring wells proximal to the work area. Enbridge did not need to implement the Water Well Monitoring program.
Noise	Throughout Construction/ Drilling	Disturbances to sensitive receptors (i.e. residents).	Construction equipment conformed to guidelines for sound and emission levels.
Spills	Throughout Construction/ Drilling	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.
Well Commissioning	April 2009	Inconvenience and/or negative health effects to nearby landowners and the public.	Commissioning was completed in accordance with Enbridge Policies and Procedures.

Table 1.

Construction Effects and Mitigation Measures

Activity	Duration	Potential Effect	Mitigation Measures
Clean-Up	January-October 2009	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 Post Construction Monitoring Report (“Interim Report”) filed on October 26, 2009, identified two outstanding issues regarding topsoil replacement and vegetation in the vicinity of TW#13H. As indicated in the Interim Report the topsoil has been replaced and the area reinstated for agricultural purposes. The large specimen tree to the north of TW#13H was monitored in June 2010 and did not show any visible stress in its foliage.

There are no unresolved issues that remain at the time of completion of this report (June 2010) for the TW#13H storage well.

6.0 Landowner Comments and Complaints

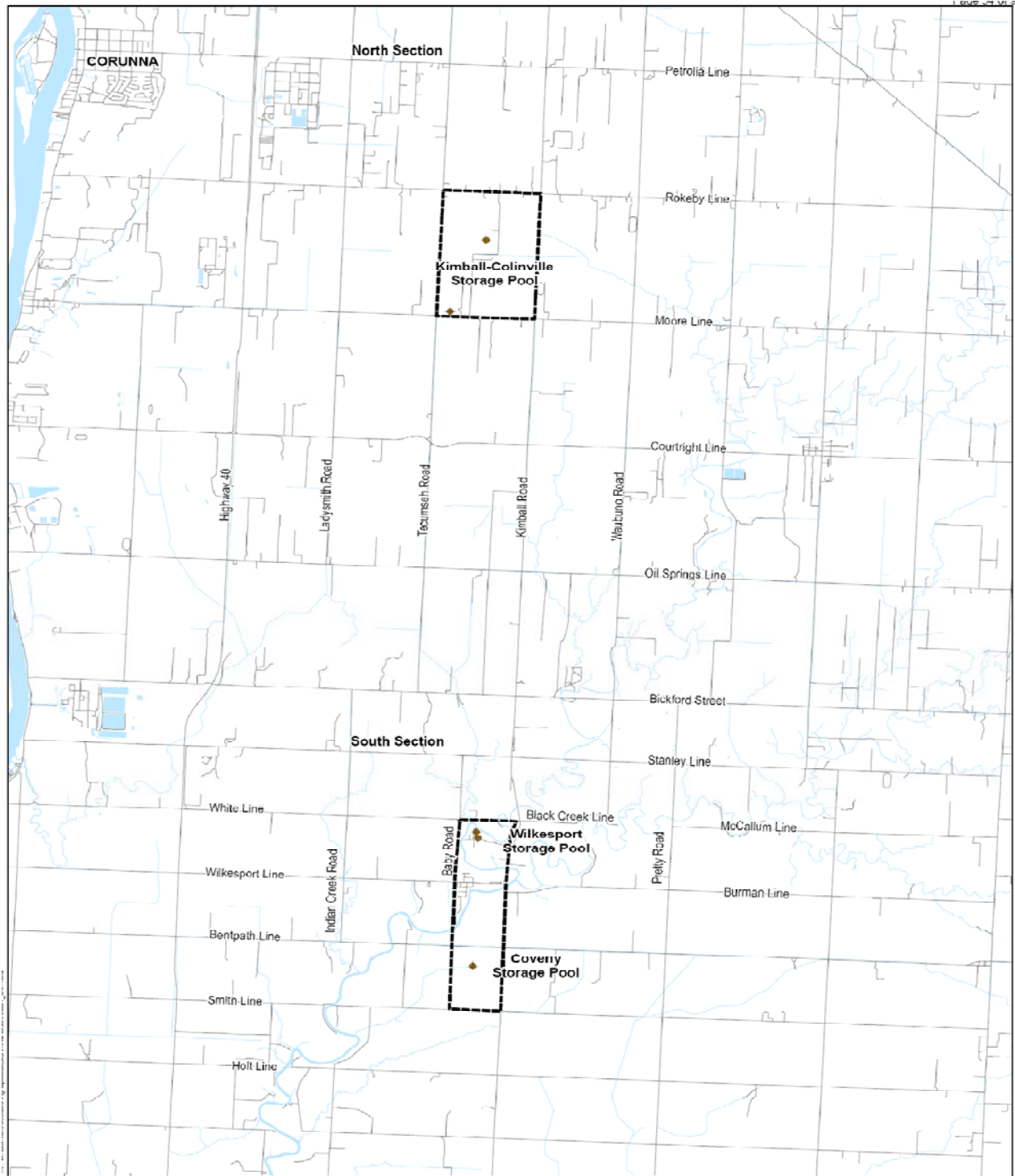
There were no landowner comments or complaints associated with the construction of the TW#13H gas storage well.

7.0 Summary

In conclusion, the mitigation measures implemented during and after construction to minimize the environmental and socio-economic impacts have been successful. The outstanding issues identified in the Interim Report have been addressed and resolved.

Enbridge does not foresee any future issues in relation to the construction of the TW#13H gas storage well.

APPENDIX A
STORAGE WELL LOCATION MAP



Source: IHS 2006

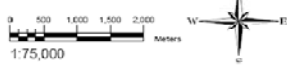
- Study Area
- Proposed Well Location



PREPARED FOR
TECUMSEH STORAGE ENHANCEMENT PROJECT
STORAGE INFILL DRILLING

FIGURE NO. 1.0

STUDY AREA MAP



Initiated: March, 2008
Revised:

APPENDIX B

**PHOTO LOG
(JUNE 2010)**



Photo 1 – TW#13H; looking south



Photo 2 – TW#13H; looking southeast



Photo 3: Specimen Tree; looking north from TW#13H



Photo 4: Looking north