

## ENVIRONMENTAL REPORT AND ARCHAEOLOGICAL ASSESSMENT

### Environmental Report

1. Dillon was retained by Enbridge to undertake a route selection and environmental and socio-economic impact study, which included a cumulative effects assessment, to select a Preferred Route for the proposed pipelines and associated facilities and to identify any potential environmental and socio-economic impacts that the project could have on the environment.
2. Mitigation measures designed to minimize environmental and community impacts were also developed as part of the study. The study results have been documented in the Environmental Report included in this exhibit. The Environmental Report conforms with the Ontario Energy Board's ("the Board") Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (Sixth Edition, 2011).
3. The Environmental Report is included as Attachment 1 to this Schedule. /u  
Amendments to the Environmental Report have been filed with Update No. 1 and Update No. 6, referred to as Environmental Report Amendment (February 2013) and Environmental Report Amendment (July 2013), respectively. These amendments review the possible impacts of the proposed project changes described in Exhibit A, Tab 2, Schedule 4. The amendments are included as Attachments 4 and 6. Further amendments have been filed with Updates No. 2 and 5, referred to as Environmental Report Amendment (April 2013), which includes public consultation in relation to the proposed project changes. This amendment is included as Attachment 5. The public consultation regarding the Environmental Report

Amendment (July 2013) will be filed with the Board upon completion. This update is expected to be filed mid-August 2013.

#### Archaeological Assessment

4. The Stage 1 Archaeological Assessment (“Stage 1”) was carried out for Segment A and Segment B under Archaeological Consulting Licence #P242, issued by the Province of Ontario to Chris G.W. Neill of D.R. Poulton & Associates Inc. The assessment was conducted in accordance with the provisions of the Ontario Heritage Act (Government of Ontario 1990a). Finally, it conformed to the Standards and Guidelines for Consultant Archaeologists formulated by the Ontario Ministry of Tourism and Culture (2011).
5. The Stage 1 background study also included an optional property inspection. In-depth research determined that numerous past archaeological assessments had been carried out within the study areas for Segments A and B.
6. There are two basic categories of possible archaeological planning concerns for any proposed development. The first consists of the potential for as-yet undiscovered sites. The second consists of known sites that are of demonstrable or potential significance as cultural resources and planning concerns. Recommendations concerning these two categories of archaeological planning concerns are summarized below.

#### *Segment A Stage 1 Archeological Assessment Results Summary*

6. The Segment A Stage 1 background study determined that 161 archaeological sites have been registered within the 1 km span study area around the proposed pipeline for Segment A and associated facilities. Of these, only 12 sites are situated within

100 m of the Preferred Route, and only three of these are significant registered archaeological sites along or in close proximity to the Preferred Route.

7. Unexcavated portions of two significant registered archaeological sites are transected by the Preferred Route; they are the multi-component River and Pengilley Sites, both of which include large pre-contact Iroquoian village components. A third significant registered site encroaches on the Preferred Route; it is a 19th century homestead site designated the John Beatty Site. A map of the respective archaeological sites can be referenced in the Environmental Report as follows:
  - John Beatty Site – Environmental Report, Appendix C, Segment A, page 1 of 4
  - River Site – Environmental Report, Appendix C, Segment A, page 2 of 4
  - Pengilley Site – Environmental Report, Appendix C, Segment A, page 2 of 4
  
8. The Stage 1 background study also included an assessment of the potential for as-yet undiscovered archaeological remains along the Preferred Route, and provided Stage 2 Archaeological Assessment (“Stage 2”) requirements. It determined that the vast majority of the length of the Preferred Route has a potential for as-yet undiscovered archaeological remains and would require a systematic Stage 2.

*Segment B Stage 1 Archeological Assessment Results Summary*

9. The Stage 1 background study determined that 76 archaeological sites have been registered within the 1 km span study area around the proposed pipeline for Segment B and associated facilities. Of these, ten sites are situated within 100 m

of the Preferred Route, and two of these are significant registered archaeological sites along or in close proximity to the Preferred Route.

10. Unexcavated portions of one significant registered archaeological site is transected by the Preferred Route; it is the multi-component Reaman I Site, which includes a large pre-contact Iroquoian village component. A second significant registered site may extend into the Preferred Route corridor; it is an Iroquoian cabin site with a burial designated the Two Pines site. A map of the respective archaeological sites can be referenced in the Environmental Report as follows:
  - Reaman I Site – Environmental Report, Appendix C, Segment B, page 2 of 6
  - Two Pines Site – Environmental Report, Appendix C, Segment B, page 3 of 6 (labeled “Unnamed”)
  
11. The Stage 1 background study also included an assessment of the potential for as-yet undiscovered archaeological remains along the Preferred Route, and provided Stage 2 requirements. It determined that the vast majority of the length of the Preferred Route has a potential for as-yet undiscovered archaeological remains.

*Segment A and B Recommendations*

12. The potential for as-yet undiscovered archaeological sites will be addressed by conducting a systematic field-based Stage 2 of the proposed construction workspace for the pipeline and for associated facilities that are of concern to the assessment. Should the Stage 2 result in the discovery of previously unknown archaeological sites, the criteria for determining the requirements for further assessment will be applied to ascertain whether the discoveries warrant further

and more intensive investigations. Those criteria are detailed in Section 2.2 of the Standards and Guidelines (Ministry of Tourism and Culture 2011, pages 39-41). In Segment A, the archaeological staff of the Toronto and Region Conservation Authority ("TRCA"), at the TRCA's request, will conduct the archaeological assessment of the segment of the proposed pipeline that extends through the Claireville Conservation Area.

13. Mitigation options for the significant registered archaeological sites (River and Pengilley Sites for Segment A, and Reaman I and Two Pine Sites for Segment B) would be informed by the results of the Aboriginal engagement and by the results of the Stage 2 and potential further archaeological assessment of the corridor through the sites.
14. Stage 1 and Stage 2 Archaeological Assessments will be completed for the 1.5 km extension. A Stage 1 Archaeological Assessment for the 5 km reinstatement was already completed as part of the EA and a Stage 2 is currently in progress. The expected completion is Fall 2013. /u
15. Stage 2 is currently underway and is expected to be completed in August 2013. Any significant results from the Stage 2 will be filed to the Board as an amendment to this Application.
16. The Stage 1 Archaeological Assessment for Segment A and Segment B are included as Attachments 2 and 3 to this Schedule, respectively.