

**VIA EMAIL ONLY**

November 10, 2021

Brett Pollock, Chief Building Official  
Township of Ashfield-Colborne-Wawanosh  
R. R. 5, 82133 Council Line  
Goderich, ON N7A 3Y2

Hi Brett

**RE: ACW Century Heights Water EA - Proposed Work Plan and Budget**

As discussed, the Township of ACW has requested a work plan and budget to complete a Class Environmental Assessment (Class EA) to examine alternatives for expansion of the Century Heights Drinking Water System (CHDWS). Below are several notes regarding the project, and a suggested budget based on our understanding of the project components.

**Background**

A July 30, 2021 draft Reserve Capacity analysis for the CHDWS demonstrated that the system currently has uncommitted reserve for approximately 70 residential units, which is insufficient for the more than 100 units of potential development within lands at the northeast end of the community. Additionally, servicing of the potential development lands from the existing municipal supply would require extension of the water distribution system (i.e. watermain). Presently, it is unknown whether the distribution system can be extended and provide the necessary flow and pressure to the development lands.

The Township would like to review options for extending water service to the development lands from the CHDWS.

**Scope of Project**

The project would proceed as a Schedule B Class EA under the Municipal Class Environmental Assessment.

Major tasks include:

- Confirm, with the Township, the extent of development (including existing, commitments, and pending/proposals) to include in the study.
- Identify potential locations for additional well construction (desktop study only; no drilling or field testing to verify suitability).
- Review the potential benefit of adding potable water storage to the system.
- Prepare a digital model of the water distribution system and identify recommended upgrades/extensions for servicing.
- Public and agency consultation as required to complete a Schedule B Class EA.
- Prepare for and attend two Public Information Centres.
- Prepare for and attend a presentation to Council.
- Provision of Technical Memos at key project milestones (projected to be four in total).
- Provision of a final Screening Report to summarize the project and the recommended alternative.

The following tasks are not included, but if found to be necessary we can help coordinate and/or complete the work.

- Investigation of alternate sources of water other than establishing a new well, such as obtaining water from Goderich.
- Construction of a test well at a new well site, well testing, etc. Pricing on new well construction has been somewhat fluid over the past year, primarily only going up. Based on recent pricing, we suggest the Township budget \$200,000 for test well construction and testing, which includes engineering and hydrogeological support. It is important to note that, assuming the test well is viable, it would become a production well for the expanded system.
- Hydrogeological modelling to satisfy source water protection may cost in the order of \$50,000.
- Specialized site study including archaeology or geotechnical. The need is site dependent, and would only be applicable for something like a new site being developed for a well and/or storage. If found to be necessary a probable budget is in the order of \$25,000 + HST to cover such study work, about 50/50 split between the archaeology and geotechnical work.
- Final design, approvals, etc. of any recommended infrastructure upgrades.

### **Suggested Budget**

We suggest the Township budget \$85,000 + HST to complete the “included” study tasks as described above. The additional probable costs for test well construction, source water protection modelling, and archaeological/geotechnical investigation are in the order of \$275,000 + HST in total. Therefore, with all items combined, the total suggested budget is \$360,000 + HST.

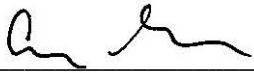
### **Funding of Project**

We anticipate the Township would recover most of the costs associated with the Class EA through Development Charges.

If you have any questions, please let me know.

Yours very truly

B. M. ROSS AND ASSOCIATES LIMITED

Per  \_\_\_\_\_  
Andrew J. Garland, P.Eng.

AJG:es