

Clarington TS

Well Interference Response Plan

Paul Dalmazzi
Hydro One Networks

- Hydro One requested that its environmental consultant (Stantec) develop:
 - A plan for responding to well interference complaints
 - Criteria for assessing and mitigating well-related complaints associated with the construction and operation of Clarington TS

Well Interference is defined as a decrease in private well performance or water quality that causes a decrease in well capacity, such that the normal supply and/or quality of water is temporarily or permanently interrupted.

Initiating a Well Interference Complaint

- WIRP will be initiated if a well owner within 1,200 m of the Clarington TS submits a written well interference complaint to Hydro One, or its consultant (Stantec)
- Well owners contacting Hydro One will be immediately referred to Stantec for an *Initial Well Assessment*

Initial Well Assessment

- Stantec will contact the well owner to undertake an *Initial Well Assessment* within 24 hours of receiving a well interference complaint
- Stantec will discuss the complaint with the well owner to determine if further action is required by Hydro One
- All costs associated with the *Initial Well Assessment* to determine the cause of the well interference complaint will be borne entirely by Hydro One

Initial Well Assessment

- If Stantec concludes that well interference may have occurred, the following actions will be taken:
 1. Hydro One will immediately offer to provide the well owner with a reasonable amount of potable water
 2. Stantec will complete a water supply investigation (water level monitoring, quality sampling) to determine cause of the complaint
 3. Well testing and/or rehabilitation by a licensed well contractor will be scheduled

- Depending on the nature of any well testing/monitoring completed as part of the initial assessment, a *Secondary Well Assessment* may be initiated
- The *Secondary Well Assessment* may include analyses of well data and comparison to background data (where available) and on-site activities

Secondary Well Assessment

- If, through the *Secondary Well Assessment*, Stantec concludes that well interference **did not occur** as a result of construction or operation of the Clarington TS:
 - a) The well owner may be required to pay for the temporary water supply provided during the *Initial Well Assessment*; and
 - b) The well owner will be responsible for arranging for any further corrective action and for bearing the associated costs
- The burden of proof (that well interference did not occur as a result of the TS) is on Hydro One

- If Stantec concludes that well interference **has likely occurred** as a result of construction or operation of the Clarington TS:
 - a) Hydro One will, with agreement from the well owner, continue to provide a reasonable amount of water to the resident, based on typical water use; or
 - b) Hydro One will institute well mitigation measures (e.g., lowering the well pump, repairing/replacing the well, etc.); or
 - c) Reduce the rate and amount of water taking so as to alleviate the observed interference (this may be done in conjunction with a continued supply of water)

- Well interference complaints will be documented and summarized on a *Well Interference Report* which will contain the following:
 1. Location of the complaint (well owner's name, address, contact information)
 2. Description of the well assessment procedures undertaken and their results
 3. Actions taken to restore water supply, if applicable
 4. Additional information and details as required

- Ministry of the Environment (MOE) Central Region will be notified of any confirmed well interference issues as follows:
 1. Stantec will notify the MOE Central Region by phone and email immediately after confirming that a well interference may have occurred
 2. The *Well Interference Report* will be submitted to MOE Central Region within one week of confirming that a well interference may have occurred.

Questions?