

## Source Protection Committee

### SOURCE PROTECTION COMMITTEE MEETING 24

– November 23, 2009 at the Haliburton County Municipal Office, Minden

#### Welcome to the Township of Minden Hills

Reeve Jim McMahon welcomed the Source Protection Committee to the Township of Minden Hills. He recognized the very delicate nature of the work of the Committee and was pleased to see so many people involved.

#### Correspondence

The following correspondence was accepted as information by the SPC:

- a. Letter from Ian Smith, MOE to First Nation Chiefs re: availability of capacity funding for First Nations participating in the drinking water source protection planning process – October 30

#### MOE Q & A Session

Heather Malcolmson, MOE Source Protection Manager, and Wendy Lavendar, MOE Liaison, answered questions from the Committee related to:

- Source Protection Planning and Implementation
- Delineation and Mapping
- Threats and Issues
- Water Budget
- Aquatic Application of Pesticides (aquacides)
- Adding waterfowl congregation (discharge of avian feces to water) as a local threat

#### Draft Proposed Assessment Report

##### a. Vulnerability Analysis – 7 Northern Groundwater Systems and 10 Surface Water Systems

XCG Consultants have completed the technical work related to the vulnerability assessment for the following municipal drinking water systems:

- 7 northern groundwater systems: *Alpine Village, Buchhorn Lake Estates, Cardiff, Dyno Estates, Lutterworth Pines, Minden, Norwood*

It was noted that the uncertainty ranking for the delineation of the wellhead protection areas is high due to the lack of sufficient high quality data and a lack of a good understanding of fracture (bedrock) geology.

- 10 surface water systems: Lakefield, Peterborough, Hastings, Marmora, Campbellford, Warkworth, Frankford, Batawa, Trenton, Bayside

It is recommended that additional dye studies or modelling be conducted for the delineation of the Intake Protection Zone 2 (IPZ-2). Re-assessment of the IPZ-2 will be incorporated into an updated Assessment Report as there is not sufficient time to complete this additional work at this point in the planning process.

The SPC accepted the results of the both vulnerability studies for inclusion in the draft proposed Assessment Report noting that further investigation take place regarding a transport pathway near the Intake Protection Zone 1.

**b. Issues Identification for 10 Surface Water Systems/14 Groundwater Systems**

Through the issues approach to identifying threats to drinking water, poor water quality or a deterioration of water quality at a municipal drinking water source is identified based on data from water sampling at an intake, well or monitoring well. Janet Noyes, XCG Consultants, reviewed their technical work to date and requested input from the Source Protection Committee for sodium, microcystin-LR and *E-coli*.

**c. Regional Groundwater Vulnerability Analysis**

Steve Davies and Helen Zhang, of AECOM Consultants, presented the modeling approaches used for the mapping and scoring of groundwater vulnerability for both the Precambrian and Paleozoic areas within the Source Protection Region.

**d. Draft Tier 2 Water Budget for Brighton/Colborne**

Dirk Kassenaar, of EarthFx (in conjunction with XCG Consultants), outlined the technical work completed to date on the Tier 2 water budget stress assessment of the Lake Ontario subwatersheds associated with the Colborne and Brighton municipal wells. It was noted that preliminary results were close to the threshold for further study (Tier 3) for Colborne. Further review of the available data is required and the report will need to be peer reviewed.

**Note:** Meeting presentations can be found at [www.trentsourceprotection.on.ca/sourceprotectioncommittee/meetings/](http://www.trentsourceprotection.on.ca/sourceprotectioncommittee/meetings/)

**Next Meeting:**

Wednesday, December 9 at the Keene Fire Hall Meeting Room at 21 Third Street, Keene.

**Upcoming Open Houses:**

- November 25, 6:30-8:30 PM, Lindsay Library (downstairs)
- November 30, 6:30-8:30 PM, Bobcaygeon Municipal Building
- December 1, 6:30-8:30 PM, Little Britain Community Centre
- An additional open house is under consideration for the Region of Durham

[www.trentsourceprotection.on.ca](http://www.trentsourceprotection.on.ca)