DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

TRENT CONSERVATION COALITION
SOURCE PROTECTION REGION

SOURCE PROTECTION COMMITTEE CHAIR'S QUARTERLY REPORT

March 1, 2009

Submitted to: Crowe Valley Source Protection Authority
Ganaraska Region Source Protection Authority
Kawartha-Haliburton Source Protection Authority
Lower Trent Source Protection Authority (lead)
Otonabee-Peterborough Source Protection Authority

Submitted by: Jim Hunt, Chair, Trent Conservation Coalition Source Protection Committee

---

Once a Terms of Reference for the preparation of an assessment report and source protection plan for a source protection area have been approved under the *Clean Water Act*, Ontario Regulation 288/07 requires the Chair of the Source Protection Committee to submit quarterly reports to the Source Protection Authorities in the region. These reports are to include an update on the status of each major task that is identified in the Terms of Reference work plan. This is the first of my reports.

The five Proposed Terms of References were submitted to the Ontario Minister of the Environment for review and approval on October 16, 2008. On January 13, 2009, the Crowe Valley, Ganaraska Region, Lower Trent and Otonabee-Peterborough Terms of Reference documents were approved by the Minister of the Environment and a notice was published on the Environmental Registry on January 20, 2009. The Kawartha-Haliburton Terms of Reference was approved January 29, 2009 and the notice published February 5. This approval set the deadline for submitting the Assessment Reports to the Ministry (one year from the EBR postings). I have submitted a letter, on the committee's behalf, to the Minister requesting a 6 month extension. We await his response.

Since its inaugural meeting in December, 2007, the committee has accomplished much. Some of the key accomplishments include:

- Prepared the Committee Handbook (the rules for committee governance)
- Established five municipal working groups
- Attended training sessions about the Clean Water Act and its requirements
- Commented on EBR postings (for the draft Assessment Report Regulations and Technical Rules)
- Learned about the source protection region and various local issues
- Visited three municipal drinking water treatment plants
- Prepared Terms of Reference for the five Source Protection Areas
- Consulted with the public on the five Terms of Reference
- Reviewed draft findings from various source protection studies
- Provided input to the future of the Ontario Drinking Water Stewardship Program

The following is a brief update on the status of each of the major tasks in the Terms of Reference work plan.

TERMS OF REFERENCE WORK PLAN

Assessment Report Task/Progress	Start Date	End Date	Status
COORDINATING AND SUPPORTING PROJECTS FOR THE ASSESSMENT REPORT			
Overall Coordination • Project Management • Report Writing (incorporating findings of the technical studies –text, maps, tables)	2005	2010	In Progress
UNDERTAKING COMMUNICATIONS INITIATIVES FOR THE ASSESSEMENT REPORT			
Overall communications/messaging • Communications products • Public events • Media Monitoring	2005	2010	In Progress
INFORMATION MANAGEMENT FOR THE ASSESSMENT REPORTS			
Overall data management • Data sharing agreements • Software Acquisition • Mapping products • Assessment Report Database	2005	2010	In Progress
UNDERTAKING A WATERSHED CHARACTERIZATION			
Watershed Characterization • Additional work underway to satisfy new requirements	2005	June 2009	In Progress
WATER BUDGETS			
Conducting Conceptual Water Budgets • Incorporate Potential Impacts from Climate Change	2005	2007	3 of 3 reports prepared
Conducting a Tier 1 Water Budget and Stress Assessment	2007	2008	2 of 2 reports prepared
Conducting a Tier 2 Water Budgets and Stress Assessments	Dec 2008	Sept 2009	In Progress -4 by XCG Consultants -1 led by GRCA
Conducting a Tier 3 Water Budget and Risk Assessment tbd	tbd	tbd	to be initiated, if required
Significant Groundwater Recharge Areas	Nov 2007	May 2009	In Progress - CAMC preparing report -Peer review underway
LANDSCAPE SCALE VULNERABILITY ASSESSMENTS/ISSUES/THREATS			
Delineating and applying scores to Highly Vulnerable Aquifers	Dec 2008	June 2009	In Progress -AECOM hired to complete work
Identifying issues, inventorying threats, assessing hazards in Highly Vulnerable Aquifers	2009	2010	Not initiated

Assessment Report Task/Progress	Start Date	End Date	Status
Assessing Risks in Highly Vulnerable Aquifers	2009	2010	Not initiated
Delineating and applying scores to Significant Recharge Areas	See water budgets		
Identifying issues, inventorying threats, assessing hazards in Significant Recharge Areas	2009	2010	Not initiated
Assessing Risks in Significant Recharge Areas	2009	2010	Not initiated
MUNICIPAL SYSTEMS - SURFACE WATER VULNERABILITY, THREATS/HAZARDS, RISKS			
3 Lake Ontario Intakes (Lake Ontario Collaborative Study)			
Delineating and applying vulnerability scores to Wellhead Protection Areas/Intake Protection Zones (Newcastle, Port Hope, Cobourg - Ganaraska SPA only) • Additional work underway to satisfy new requirements	2006	tbd	In Progress -Draft work plan developed to satisfy new requirements
Identifying issues, inventorying threats, assessing hazards, assessing risks in Wellhead Protection Areas/Intake Protection Zones	2006	tbd	In Progress (Issues) Not initiated (Threats)
10 Trent River/Bay of Quinte Intakes (led by TCC)			
Delineating and applying vulnerability scores to Wellhead Protection Areas/Intake Protection Zones • Additional work underway to satisfy new requirements • Edge map with Belleville (Quinte SPR)	2006	May 2009	In Progress -XCG Consultants undertaking work
Identifying issues, inventorying threats, assessing hazards, assessing risks in Wellhead Protection Areas/Intake Protection Zones • Additional work underway to satisfy new requirements	2006	Aug 2009	In Progress -XCG Consultants undertaking work
6 Trent River Intakes (led by City of Kawartha Lakes)			
Delineating and applying vulnerability scores to Wellhead Protection Areas/Intake Protection Zones • Additional work underway to satisfy new requirements	2007	May 2009	In Progress -XCG Consultants undertaking work
Identifying issues, inventorying threats, assessing hazards, assessing risks in Wellhead Protection Areas/Intake Protection Zones • Additional work underway to satisfy new requirements	2007	Aug 2009	In Progress -XCG Consultants undertaking work
TECHNICAL WORK: MUNICIPAL SYSTEMS - GROUNDWATER VULNERABLE AREAS AND WATER QUALITY DRINKING WATER THREATS/ISSUES			
14 municipal well systems (led by TCC)			
Delineating and applying vulnerability scores to Wellhead Protection Areas/Intake Protection Zones • Additional work underway to satisfy new requirements	2006	June 2009	In Progress -XCG Consultants undertaking work
Identifying issues, inventorying threats, assessing hazards, assessing risks in Wellhead Protection Areas/Intake Protection Zones • Additional work underway to satisfy new requirements	2006	Aug 2009	In Progress -XCG Consultants undertaking work

Assessment Report Task/Progress	Start Date	End Date	Status
13 municipal well systems (led by City of Kawartha Lakes)			
Delineating and applying vulnerability scores to Wellhead Protection Areas/Intake Protection Zones • Additional work underway to satisfy new requirements	2007	June 2009	In Progress -Jagger Hims Ltd undertaking work
Identifying issues, inventorying threats, assessing hazards, assessing risks in Wellhead Protection Areas/Intake Protection Zones • Additional work underway to satisfy new requirements	2007	Aug 2009	In Progress -Jagger Hims Ltd undertaking work
2 municipal well systems (led by Hamilton Township)			
Delineating and applying vulnerability scores to Wellhead Protection Areas/Intake Protection Zones • Additional work underway to satisfy new requirements	2006	June 2009	In Progress -Jagger Hims Ltd undertaking work
Identifying issues, inventorying threats, assessing hazards, assessing risks in Wellhead Protection Areas/Intake Protection Zones • Additional work underway to satisfy new requirements	2006	Aug 2009	In Progress -Jagger Hims Ltd undertaking work
4 municipal well systems (led by Region of Durham)			
Delineating and applying vulnerability scores to Wellhead Protection Areas/Intake Protection Zones • Additional work underway to satisfy new requirements	2006	June 2009	In Progress -Jagger Hims Ltd undertaking work
Identifying issues, inventorying threats, assessing hazards, assessing risks in Wellhead Protection Areas/Intake Protection Zones • Additional work underway to satisfy new requirements	2006	Aug 2009	In Progress -Jagger Hims Ltd undertaking work
1 municipal well system (led by Township of Havelock-Belmont-Methuen)			
Delineating and applying vulnerability scores to Wellhead Protection Areas/Intake Protection Zones • Additional work underway to satisfy new requirements	2006	June 2009	In Progress -Jagger Hims Ltd undertaking work
Identifying issues, inventorying threats, assessing hazards, assessing risks in Wellhead Protection Areas/Intake Protection Zones • Additional work underway to satisfy new requirements	2006	Aug 2009	In Progress -Jagger Hims Ltd undertaking work
2 Planned municipal well systems			
Delineating and applying vulnerability scores to Wellhead Protection Areas/Intake Protection Zones **Issues**	tbd	tbd	Not initiated
Identifying issues, inventorying threats, assessing hazards, assessing risks in Wellhead Protection Areas/Intake Protection Zones	tbd	tbd	Not initiated
PEER REVIEW OF VULNERABILITY STUDIES			
Peer Review of Municipal Well Vulnerability Studies	March 2009	July 2009	In Progress
Peer Review of Municipal Surface Water Intake Vulnerability Studies	March 2009	July 2009	In Progress

Assessment Report Task/Progress	Start Date	End Date	Status
CONSULTATION ON OVERALL PROPOSED ASSESSMENT REPORT			
Stakeholder Consultations (outside of regulatory requirements)	May 2009	Oct 2009	Not initiated
Public Notice of Draft Proposed Assessment Report • Direct notification to landowners • Web-site • Direct mail outs to municipalities, First Nations, others • Make available in public places	January 2010	January 2010	Not initiated
Open Houses • Minimum of 6 across region	Feb 2010	Feb 2010	Not initiated
Public comment period	Jan 2010	Feb 2010	Not initiated
Incorporate public comments	March 2010	April 2010	Not initiated
Public notice of proposed Assessment Report & submit to Source Protection Authority	April 2010	April 2010	Not initiated
Public comment period	April 2010	May 2010	Not initiated
REVISE/UPDATE ASSESSMENT REPORT			
Revise/Update Assessment Reports	Sept 2010	June 2012	Not initiated
Source Protection Plan Task/Progress	**Start Date**	**End Date**	**Status**
PREPARATION OF SOURCE PROTECTION PLAN			
Source Protection Plan Development	2010	Aug 2012	Not initiated