

Drinking Water Source Protection Update

City of Greater Sudbury Council Meeting
May 29, 2012

Bob Rogers, Chair, Greater Sudbury Source
Protection Authority
and

Nels Conroy, Chair, Greater Sudbury Source
Protection Committee



Ontario's *Clean Water Act*, 2006



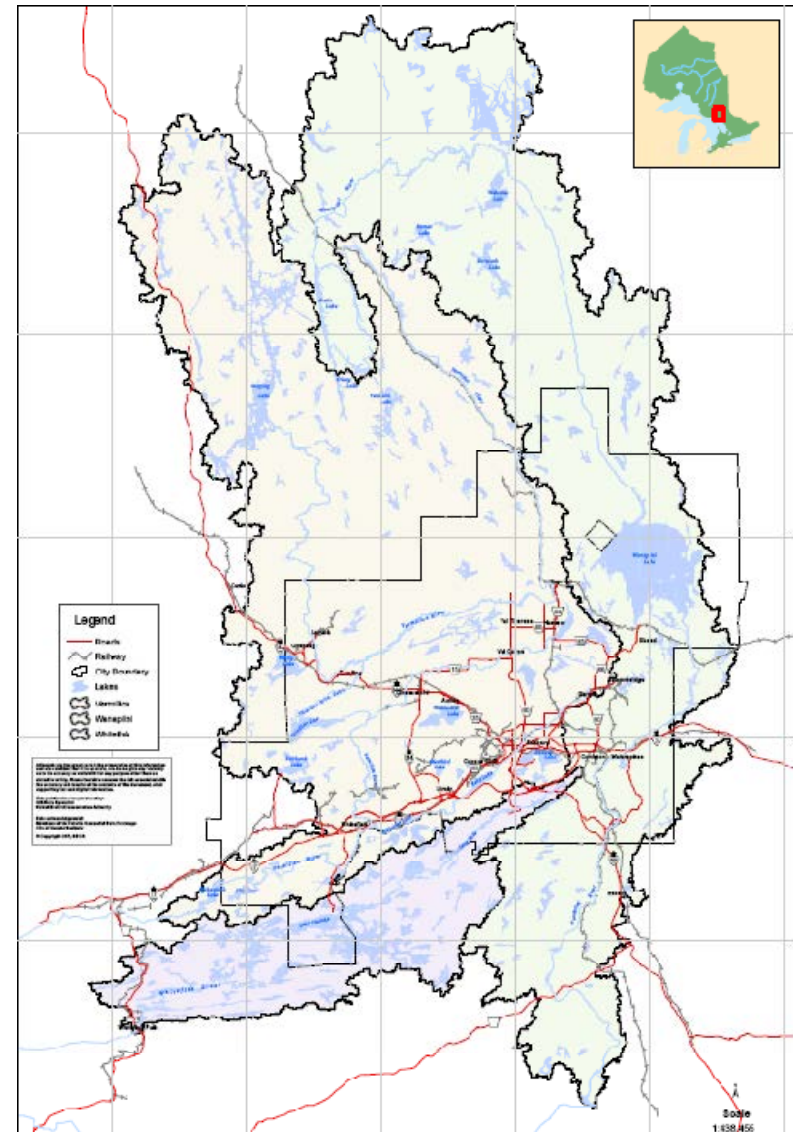
Purpose

- The purpose of the **Clean Water Act** is to protect existing and future sources of municipal, residential drinking water as part of an overall commitment to safeguard human health and the natural environment.

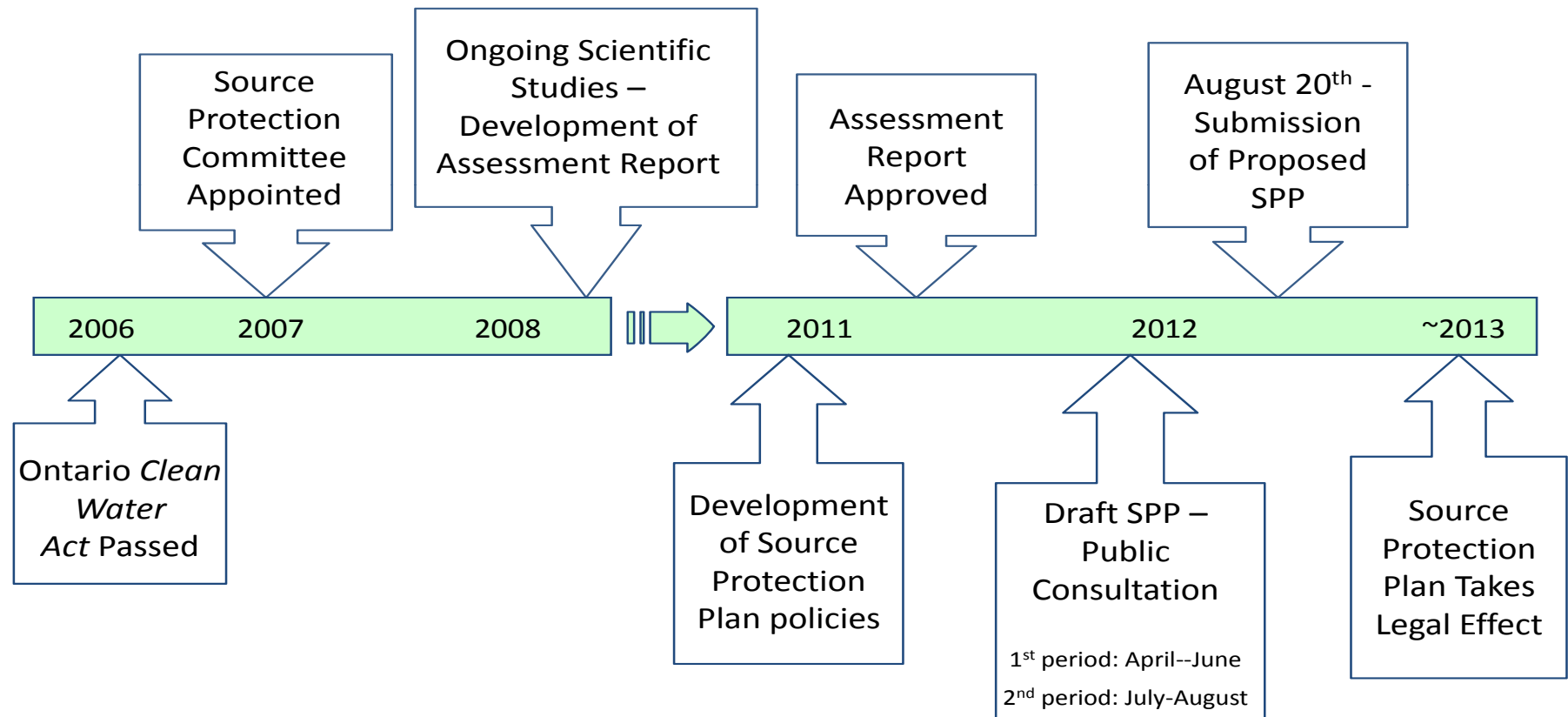


Greater Sudbury Source Protection Area

- Approx 9,000 km²
- **3 Watersheds**
 - Wanapitei River
 - Vermilion River
 - Whitefish River



Greater Sudbury Source Protection Planning: Past/Present/Future



Greater Sudbury Source Protection Committee



- 10 members
- 3 municipal members
- 3 economic / business
- 1 Environmental
- 2 General Public
- 2 First Nations
- Liaisons – Health Unit, MOE, GSSPA



Source Protection Process



Delineate
Vulnerable
Areas



Identify
Threats



Develop
Policies

Draft Source Protection Plan Contents

- 44 Significant threat policies / one moderate
- Monitoring policies
 - mainly for policy implementation
 - One monitoring policy for issues in Ramsey Lake – sodium and phosphorus (blue-green algae)
- Legal provisions
- Body / organization responsible
- Area to which policy applies
- Timing - implementation

GREATER SUDBURY SOURCE PROTECTION AREA



*Prepared on behalf of the:
Greater Sudbury Source Protection Committee*

*Under the Clean Water Act, 2006
(Ontario Regulation 287/07)*

April 16, 2012

Additional copies of this Source Protection Plan, the Explanatory Document and the Assessment Report may be obtained by contacting:

Drinking Water Source Protection Program
Nickel District Conservation Authority
200 Brady Street, 1st Floor, Tom Davies Square
Sudbury, Ontario P3E 5K3
Telephone: (705) 674-5249
Email: sourcewater@sudbury.ca
Web: <http://www.sourcewatersudbury.ca>



Draft Plan Public Consultation



Mail out to approximately 6,000 property owners in Ramsey Lake watershed and Community wells area

Draft Source Protection Plan

- Posted for public comment and review from April 16th to June 4th
- Open Houses held on May 15th and 16th in Sudbury and Hanmer
>50 people attended
- Proposed Plan will be posted by GSSPA in July for final 30 day comment period
- Proposed Plan submitted to MOE by August 20th.



Policy Toolbox

- Land Use Planning
 - Official Plan, Zoning by-laws
- Risk Management Plans
 - Site specific
 - Agreement between Part IV body and land owner
- Education and Outreach
- Prohibition
 - Very limited / Future only
- Restricted Land Uses
 - Flag on planning applications / building permits
- Prescribed Instruments (MOE)
 - E.g. Certificates of Approval for sewage systems



Greater Sudbury Source Protection Plan Draft Policies



Threat Category	Number of Policies	Number of City Policies
Agriculture – nutrients/fertilizer	4	4
Pesticides	5	4
Salt and Snow	6	6
Fuel	4	2
Dense Non-Aqueous Phase Liquids (DNAPLs) and Organic Solvents	4	4
Aircraft Deicing Fluid	1	1
Transportation	5	2
Waste	4	2
Sewage	10	7
Issues monitoring	1	1
TOTAL	44	33

Policy Implementing Bodies



Threat Category	Implementing Body
Agriculture – nutrients/fertilizer	City
Pesticides	City / MOE
Salt and Snow	City
Fuel	City / MOE
Dense Non-Aqueous Phase Liquids (DNAPLs) and Organic Solvents	City
Aircraft Deicing Fluid	City
Transportation	City / MOE / MTO / Technical Standards and Safety Authority
Waste	City / MOE
Sewage	City / SDHU / MOE
Issues monitoring	City

Risk Management Plans



Threat(s) / No. of Properties	Details / Notes
Waste (~3)	Scrapyard at Kenneth Well, Rock City, and potentially other properties in Ramsey Lake Intake Protection Zone-3 (IPZ 3)
Application of agricultural source material (1)	Deschene Wellhead Protection Area (WHPA) A
Storage of agricultural source material and livestock grazing and pasturing (6)	All properties in the Valley Wellhead Protection Areas
Application of commercial fertilizer (~3)	Municipal parks around Ramsey Lake, Idylwyde golf course, Deschene WHPA A
Handling and storage of commercial fertilizer and handling and storage of pesticide (1)	Phillipe WHPA B - garden centre
Application of road salt and snow storage (~12)	Approximately 17 properties, 12 property owners
Handling and storage of road salt (1)	Frobisher Depot (City)
Handling and storage of fuel (3)**	Scrapyard at the Kenneth Well and 2 gas stations
Handling and storage of DNAPLs (4)	Vehicle servicing establishments in the Valley
Total Number of UNIQUE Properties (~35) **number could be higher following field work to investigate home heating fuel storage in residences.	12

Clean Water Act Mandated Implementation Responsibilities



- **Greater Sudbury Source Protection Authority**
 - Monitoring, annual reporting, management, support, updates
- **City of Greater Sudbury**
 - Policies implementing body
 - CWA Part IV functions default to municipality
 - Municipality can delegate Part IV enforcement to another public body (ie. Source Protection Authority)
- **Other agencies/organizations**
 - Policy implementing bodies



Potential Funding for Source Protection Implementation

- Provincial
- Municipal (implementing body; to GSSPA for mandated responsibilities- **Provincial funding decision???**)
- Other Sources - Part IV permit and inspection fees, development charges, water rates, general tax levy



GSSPA/CGS Implementation Meeting

- GSSPA request to transfer responsibility for Part IV
- Meeting with senior City staff; must prepare for implementation which is expected by early 2013
- GSSPA staff capacity, knowledge, expertise
- City-GSSPA negotiated agreement required to transfer Part IV function.



Final Thoughts



- August 20, 2012 is not the end; implementation begins soon
- GSSPA/NDCA sensitive to City financial pressures; pressing the Province for 100% funding
- GSSPA has capacity to implement Part IV responsibilities in cost-effective manner
- GSSPA and City will continue to work together to implement and monitor source protection planning for the safety and well-being of watershed residents who receive municipal drinking water supplies.





Thank you.

QUESTIONS??

DRINKING WATER SOURCE
PROTECTION
DE L'EAU POTABLE À LA SOURCE



Nickel District
Conservation
Authority

www.nickeldistrict.ca

www.sourcewatersudbury.ca