

DRINKING WATER SOURCE PROTECTION

Trent Conservation Coalition Source Protection Region

Updates to the Trent and Ganaraska Source Protection Plan & Changes and Future Direction of the Drinking Water Source Protection Program

March 8th, 2019

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Region SPA

Presentation Outline

- Recent updates to the Trent and Ganaraska Source Protection Plan
- Workplan highlights
 - Authorization and Timelines
 - Changes in Technical Rules
 - New science
 - Policy challenges



UPDATES TO THE TRENT AND GANARASKA SOURCE PROTECTION PLANS

DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

TRENT CONSERVATION COALITION
SOURCE PROTECTION REGION

Trent Source Protection Plan

Approved October 23, 2014
Effective January 1, 2015

Crowe Valley Source Protection Area
Kawartha-Haliburton Source Protection Area
Lower Trent Source Protection Area
Otonabee-Peterborough Source Protection Area

Ontario
Made possible through the support of the Government of Ontario

www.trentsourceprotection.on.ca

DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

TRENT CONSERVATION COALITION
SOURCE PROTECTION REGION

Proposed

Ganaraska Source Protection Plan

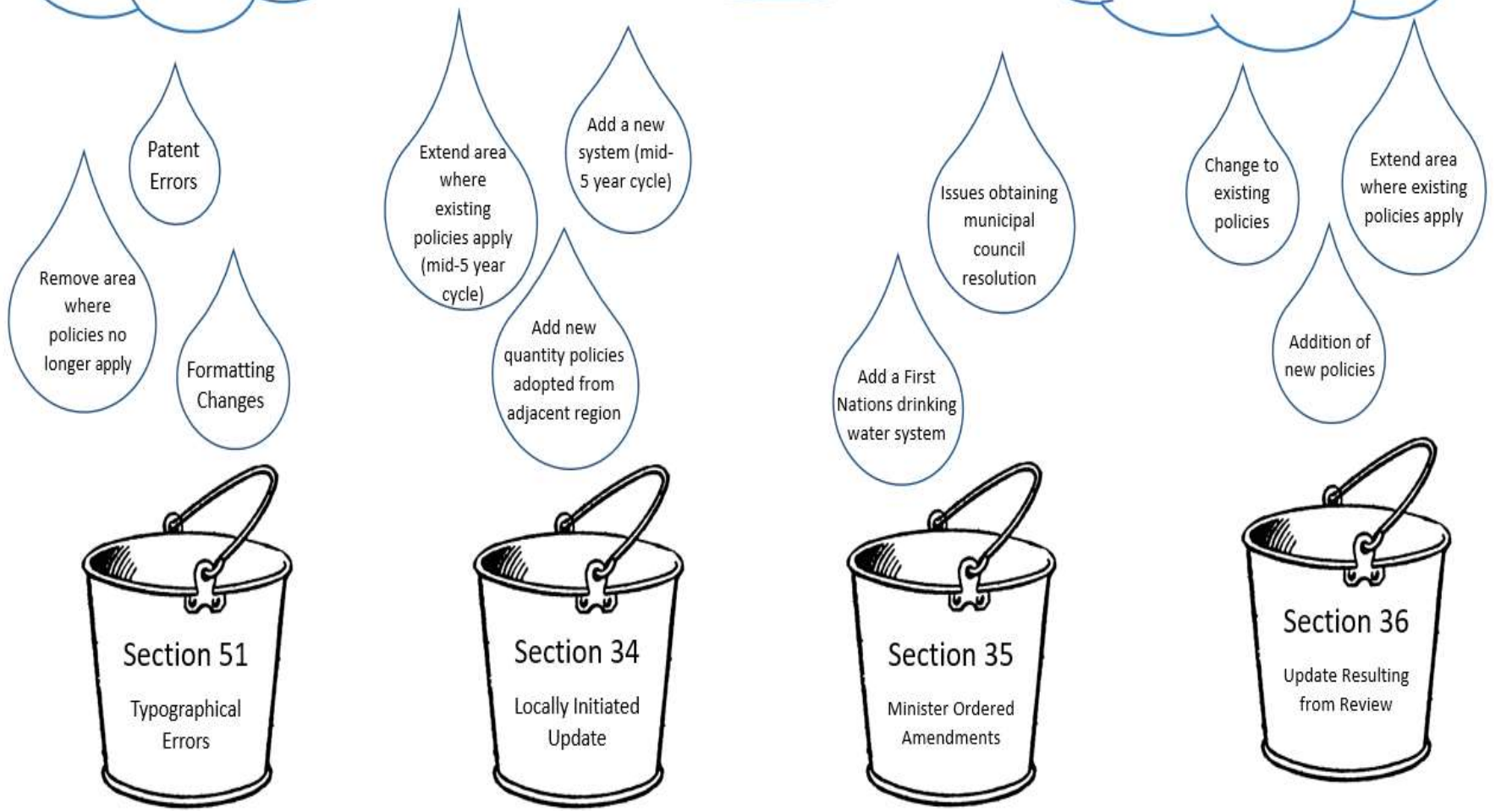
June 27, 2012

Ganaraska Region Source Protection Area

Ontario
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PLAN AMENDMENTS



Section 51 Changes to the Ganaraska and Trent Source Protection Plans

- All changes are documented in the Source Protection Plans
- Minor editorial changes:
 - Slight changes to policies to improve clarity.
 - Additional tables and wording to improve transfer of information.
 - Corrections to IPZ mapping.
- All changes relate to improving clarity for easier implementation, not changing the intent of policies.

Section 34 Changes to the Trent Source Protection Plan

- 8 new water quantity policies were added for a small area within the municipalities of Uxbridge and Scugog.



Most recent Source Protection Plans are found at:

trentsourceprotection.on.ca



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Be WATER SMART



CHANGES AND FUTURE DIRECTION OF THE DRINKING WATER SOURCE PROTECTION PROGRAM

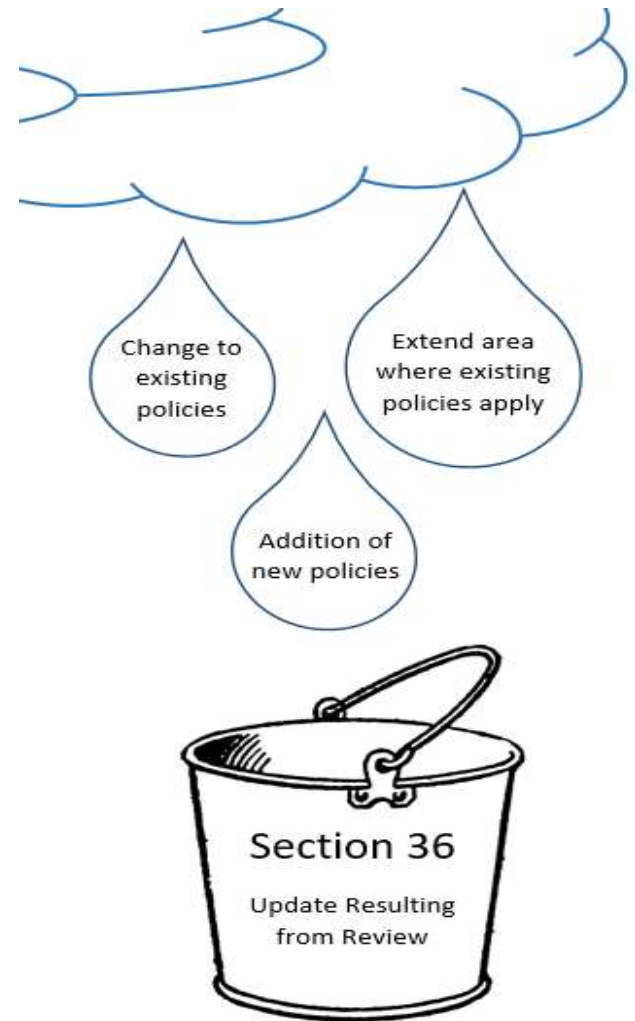


First Phase of Plan Implementation

- Source Protection Plans effective as of January 1, 2015
- 5 year implementation anniversary January 1, 2020
- 5 year review and update – starts now!

Section 36 Work Plan

- Work plans for both source protection plans were submitted to the Ministry in the fall of 2018.
- Outlines desired updates to science and policy based on:
 - Updates to Director's Technical Rules
 - Changes in scientific information
 - Lessons learned from policy implementation



Authorization and Capacity to do Work

- The Ministry will be using the work plans to inform amended Section 36 orders, which will include a submission deadline.
 - The work plan is not “approved” by the Ministry.
- TCC SPC has recommended a submission deadline of “end of 2023”.
- Mandatory work can begin any time and under current capacity:
 - New Technical Rules
 - Great Lakes work
 - Significant implementation issues

Updates to Technical Rules

In 2017 the province made changes to the Director's Technical Rules to:

- Provide clarity with respect to terminology,
- Remove redundancies,
- Incorporate flexibility and new scientific approaches,
- Correct and update the Tables of Drinking Water Threats, which are part of the Director's Technical Rules.

Changes are both mandatory and enabling.

Mandatory Technical Rule Changes

- Liquid hydrocarbon pipelines
 - Pipelines above ground – intake protection zone 9 or 10
 - Pipelines below ground – wellhead protection areas scoring 10
 - Pipelines under a water body – intake protection zones scoring 9 or 10 and wellhead protection areas scoring 10
- Impact to Source Protection Plans
 - Editorial changes in the Ganaraska Source Protection Plan as already identified as local threat
 - Liquid hydrocarbon pipelines significant threat in the Trenton Intake Protection Zone 2

Mandatory Technical Rule Changes

- Handling and Storage of Fuel
 - Above Ground Storage and handling - intake protection zone 9 and 10
 - Partially Below Ground Storage – intake protection zone 9 and 10
- Impact to Source Protection Plans
 - No change in the Ganaraska Source Protection Plan as IPZ scores are too low
 - Significant threat in Norland, Kinmount, Fenelon Falls, Lindsay, Bobcaygeon, Peterborough, Marmora, Hastings, Campbellford, Warkworth, Frankford & Trenton Intake Protection Zones scoring 9 or higher.

Mandatory Technical Rule Changes

- Vulnerability scores of Significant Groundwater Recharge Areas
 - Removal of scores and identification of SGRA as one feature.
 - Consideration to SGRA associated with Great Lakes intakes.
- Impact to Source Protection Plans
 - Changes in text and maps for both Ganaraska and Trent Source Protection Plans.
 - No policies are associated with these vulnerable areas, therefore no change.

Changes in Scientific Information

- Durham Region is undertaking new groundwater modeling that will have considerations to the Orono WHPA and WHPA in Kawartha-Haliburton SPA
- Improvements to IPZ based on changes in storm water infrastructure – new infrastructure and evaluation of existing infrastructure
- Consideration to Lake Ontario threats
- Climate change considerations



Lessons learned from policy implementation

Top policy challenges identified in 2017 Annual Progress Report:

- Road Salt – Vulnerable Areas may change, Provincial Working group guidance in progress
- Dense Non-Aqueous Phase Liquid (DNAPL) - Lack of quantity threshold
- Agricultural Source Material – Lack of threshold for pathogen threat
- Contacting Landowners – Fuel, Livestock Grazing/Pasturing, Agriculture, Pesticides

Thank you!

Questions?