

**TO: Chair and Members of the Source Protection Committee
Meeting #2/24, March 20, 2024**

**FROM: Behnam Doulatyari, Senior Manager, Watershed Plans and
Source Water Protection**

RE: CTC Source Protection Plan Annual Progress Report 2023

RECOMMENDATION

THAT the CTC Source Protection Committee receive the staff report CTC Source Protection Plan Annual Progress Report 2023 for information.

AND THAT in the opinion of the CTC Source Protection Committee, implementation of the Source Protection Plan has progressed well but is short of target in achieving the plan's objectives.

AND FURTHER THAT CTC staff be directed to present the CTC Source Protection Committee's comments along with the Annual Progress Report 2023 to the Credit Valley, Toronto and Region, and Central Lake Ontario Source Protection Authorities for submission to the Ministry of the Environment, Conservation and Parks.

EXECUTIVE SUMMARY

CTC Source Protection Plan implementation progress has been analysed by staff and is summarized below. Reports on implementation progress are received from implementing bodies, including municipalities and provincial ministries on an annual basis. The 2023 Annual Progress Report has been prepared for review by the CTC Source Protection Committee and Source Protection Authority Boards prior to its submission to the Ministry of the Environment, Conservation and Parks.

Background

The CTC Source Protection Plan (the Plan) came into effect December 31, 2015, providing a framework of policies to protect the quality and quantity of the source waters for municipal drinking water systems located in the CTC Source Protection Region. The objectives of the Plan are:

1. to protect existing and future drinking water sources in the CTC Source Protection Region
2. to ensure that existing activities cease to be, or do not become, significant drinking water threats, and that new activities never become significant drinking water threats.

Source Protection Authorities (SPAs) are required to submit annual reports on implementation progress to the Ministry of the Environment, Conservation and Parks (MECP) under section 46 of the *Clean Water Act, 2006* (the Act). The 2023 report on implementation progress will be the seventh such report since the Plan came into effect.

Annual progress reports are prepared using data provided by municipalities, provincial ministries, and other implementing bodies as required by the monitoring policies in the Plan and in accordance with section 81 of the Act and section 65 of Ontario Regulation 287/07. Municipal and provincial reports are required to be submitted to SPAs annually by February 1st and reflect implementation efforts from the previous calendar year, January 1 to December 31, 2023.

Staff aggregate and evaluate implementation data to populate two reporting templates provided by the MECP: 1) a summary-level annual progress report and 2) a more detailed supplemental form. Annual reports must be shared with the CTC Source Protection Committee (SPC) at least 30 days before being submitted to the Director, Conservation and Source Protection Branch, of the MECP.

Last year, the CTC migrated to the online Electronic Annual Reporting (EAR) platform to streamline collating and assessing reported data from implementing bodies. For this year, the implementation status of policies are being answered directly in a new online policy interface (<https://policy.swpip.ca/>) instead of through section 2 of EAR. This change provides SPAs with the implementation status of each municipality and meets the intent of section 46 of the Act by also making the information available to the public.

The SPC is required to review the annual progress report and provide written comments to the SPAs about the extent to which, in the opinion of the SPC, the objectives set out in the plan are being achieved by the measures described in the report.

The plain-language draft annual progress report (**Attachment 1**) includes a summary of Plan implementation, highlighting municipal progress in aligning Official Plans with the source protection plan, septic system inspections, and risk management plans, provincial implementation progress, and water quality monitoring results.

The supplemental form (**Attachment 2**) includes two questions that require SPC input.

1. In the opinion of the Source Protection Committee, to what extent have the objectives of the source protection plan been achieved in this reporting period? (Question ID 350)
2. Please provide comments to explain how the Source Protection Committee arrived at its opinion. Include a summary of any discussions that might have been had amongst the Source Protection Committee members, especially where no consensus was reached. (Question ID 351)

The MECP has clarified that notwithstanding the reference to “in this reporting period”, the intent of this question is to reflect progress made in plan implementation since it came into

effect (2015), and not just in the previous year. Three response options are provided by the MECP:

- Progressing well/on-target – The majority of the source protection plan policies have been implemented and/or are progressing.
- Satisfactory – Some of the source protection plan policies have been implemented and/or are progressing.
- Limited progress – A few source protection plan policies have been implemented and/or are progressing.

Staff recommend the response included in Section II of Attachment 1 and described more fulsomely below.

Highlights

Source Protection Plan Policies

As of the end of 2023, 89% of legally binding policies that address significant drinking water threats have been implemented. Similarly, as of the end of 2023, 90% of non-legally binding policies that address significant drinking water threats have been implemented, and the rest are in progress, or have been considered and do not require further action. Sixty-nine percent of policies addressing Moderate and Low threats have been implemented and the remainder are in progress.

Furthermore, approximately 98% of existing significant drinking water threats have been addressed through policy implementation or removed through threats verification.

Septic Inspections

The Ontario Building Code requires that small sewage systems identified as significant drinking water threats be inspected every five years through a mandatory program. Within the CTC Region, 279 septic systems are currently identified as requiring inspections every 5 years to satisfy the requirements of the Ontario Building Code.

In 2023, 108 inspections were completed, representing 39% of the total inspections required over the 5-year cycle. **Table 1** below shows the number of completed and outstanding inspections across the CTC SPR. Of the systems inspected in 2023, 48% did not require any maintenance work, 34% required minor maintenance, and 18% required major maintenance.

At the conclusion of 2023, there are fifteen septic systems in Erin whose inspection was outstanding due to landowner refusing entry, and therefore compliance orders are being sought. Halton Hills is awaiting confirmation that one further system has been decommissioned. In York Region, two local municipalities reported ongoing inspection delays for twenty-nine septic systems and are following up on next steps including final notices and possible compliance orders.

Table 1. Septic system maintenance inspections across CTC (2018-2023)

Municipality	2018	2019	2020	2021	2022	2023	Outstanding Inspections
Dufferin (Amaranth, East Garafraxa, Mono)	0	12	0	0	0	0	0
Orangeville	0	0	0	2	0	0	0
Erin	0	0	0	0	0	107	15
Caledon	0	0	0	8	7	0	0
Halton Hills	2	1	1	50	5	1	1
York (Whitchurch-Stouffville, Vaughan)	0	0	0	0	25	0	29
Durham (Uxbridge)	0	0	0	4	0	0	0

Risk Management Plans

Risk management plans (RMPs) are site specific documents that outline the actions required to address significant drinking water threats. These are negotiated with property owners and businesses by municipal Risk Management Officials (RMOs).

A total of thirty-three RMPs were signed in 2023 in the CTC Source Protection Region, compared to nineteen in 2022. As of the end of 2023, there were 182 RMPs in place across CTC. **Figure 1** illustrates the number of RMPs currently in place, finalized or in-progress, and still required at the end of 2023.

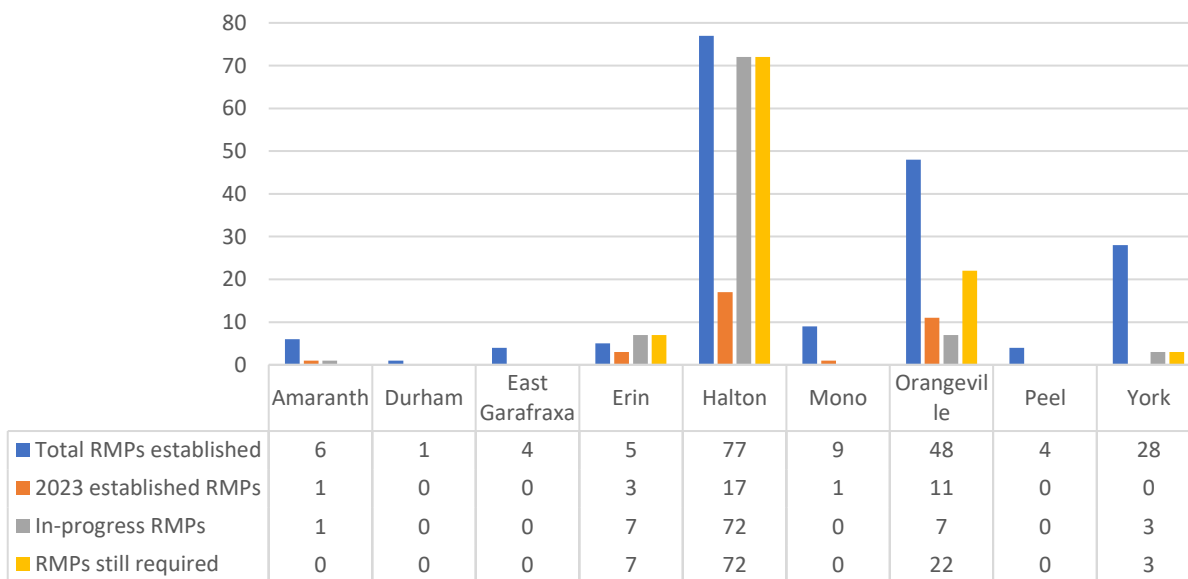


Figure 1. Total RMPs established, RMPs established in 2023, RMPs in-progress at end of 2023, and RMPs still required at end of 2023.

The total number of significant drinking water threats that remain to be addressed in the CTC as of the end of 2023, was 241, down from 301 at the end of 2022. Outstanding significant threats are predominantly associated with application and storage of road salt, snow storage, sewage,

application and storage of agricultural source materials, commercial fertilizer and pesticides, and handling and storage of dense non-aqueous phase liquids.

Of these 241 significant threats, 160 are considered “existing” threats and are identified as requiring RMPs to manage them. “Existing” threats are, in general terms, activities that were occurring on the landscape before the Source Protection Plan was approved. The 2015 approval of the CTC Source Protection Plan, set the deadline for completion of RMPs for existing threats as December 31, 2020, as per policy T-6.

In 2020, following a request by the SPC, the MECP approved a 3-year extension to the original deadline to complete RMPs for existing significant threats identified at the time of the initial Source Protection Plan approval in 2015. The deadline was further revised, to December 31, 2025, after the SPC authorized a 2-year extension that was approved by the MECP in November 2023.

At the conclusion of 2023, there were about 104 RMPs that remain to be negotiated to manage existing significant threats. A quarterly update on the number of outstanding existing significant drinking water threats and risk managements plans can be found in **Table 1**.

Table 1. CTC outstanding existing significant drinking water threat and risk management plan progress*

Municipality	Outstanding existing significant threats or risk management plans	As of January 1, 2023	As of June 30, 2023	As of January 1, 2024*
Town of Erin	# of significant drinking water threats	29	25	18
Town of Erin	# of risk management plans	11	7	7
Halton Region	# of significant drinking water threats	165	124	95
Halton Region	# of risk management plans	116	95	72
Town of Orangeville	# of significant drinking water threats	66	39	42
Town of Orangeville	# of risk management plans	34	30	22

*York Region identified three RMPs that are required to address existing significant threats due to property ownership changes. These properties had previously had RMPs established.

There were 185 inspections carried out by municipal Risk Management Inspectors in 2023 for prohibited or risk managed activities. Three of these inspections identified persons engaging in a drinking water threat activity without a risk management plan as required by the CTC Source Protection Plan. Municipal staff worked with these property owners to negotiate new or amended Risk Management Plans to cover the newly identified significant threats.

Provincial Prescribed Instruments

Ontario ministries review applications for new or amended provincial approvals (i.e., Prescribed Instruments, such as Environmental Compliance Approvals under the *Environmental Protection Act*), where they have been identified as a tool in the CTC Source Protection Plan, to address activities that pose a significant risk to sources of drinking water. Where necessary, conditions are added to approvals to ensure that the activity does not pose a significant threat to sources of drinking water.

Provincial ministries screen 100% of applicable incoming applications in accordance with CTC Source Protection Plan prescribed instrument policies. In 2023, ministries conducted detailed review of nine new applications within CTC: one Fuel Handling/Storage, one Permit To Take Water, six Wastewater/Sewage Works and one Nutrient Management Strategy. One Fuel Handling/Storage, one Permit To Take Water and one Nutrient Management Strategy were determined to be significant drinking water threats and had conditions included within the instrument to manage the threat. The six Wastewater/Sewage Works applications were reported as not being significant drinking water threats.

The ministries have reported 100% completion of review of previously issued provincial approvals in our source protection region. Three newly identified existing ECAs for wastewater/sewage works were identified as requiring a detailed review for source protection within the CTC in 2023, all were determined not be a significant threat.

Source Water Quality

SPA staff have been working with municipal partners on development of updated statistical method to better assess trends in groundwater quality, specifically focused on nitrate, sodium and chloride. The following summary of CTC issues is based on the results of that approach as presented in the *CTC SPR Water Quality Assessment Technical Report* at Meeting #3/23.

Thirteen drinking water issues are currently identified at wells in three drinking water systems in the CTC Source Protection Region.

In the Orangeville Drinking Water System (DWS), five wells have been identified with chloride issues and three wells with sodium issues. Chloride concentrations continue to increase in all five wells (6, 9A, 9B, 10, and 11). Sodium concentrations in the affected wells continue to increase (6, 9A, and 9B).

In the Acton DWS, Davidson 1 and 2 wells have been identified with nitrate issues, analysis suggests concentrations appear to be decreasing.

In the Georgetown DWS, Cedarvale 1A, 4 and 4A wells have been identified with chloride issues and concentrations continue to increase.

As part of the comprehensive review of the CTC Source Protection Plan under section 36 of the *Clean Water Act, 2006*, current drinking water issues are being reassessed. As noted above, the

first phase of an investigation to consider these issues and water quality concerns for municipal supplies was presented at Meeting #3/23. The second phase is included in Agenda Item 7.1c with the intention to support water quality trend analysis, and issue identification, monitoring and potential delisting. Work on the third phase involving hydrogeological assessment of wells with existing *issues* to determine the likely cause of the observed statistical trend based on all available data will start in the second quarter of 2024. Work on phase 4 of the project to develop an automated water quality reporting tool in collaboration with ORMGP platform is anticipated to be completed in the second quarter of 2024.

Discussion

Results presented above show good overall progress in implementation of the plan. Progress on RMP establishment and septic inspections are below targets in a few municipalities but have improved compared to the past three years. Recognizing, among other things, the resources and time required for inspections and negotiations, staff recommend an overall assessment of “progressing well, but short of target” for 2023. This is consistent with the modified language used in the 2019 through 2022 annual reports.

Next Steps

The annual progress report and the SPC’s assessment and comments on CTC Source Protection Plan implementation will be presented to the Credit Valley, Central Lake Ontario, and Toronto and Region Source Protection Authorities (SPAs) for their consideration at meetings in April 2023. Following SPA direction, staff will submit the annual progress report and supplementary form to MECP by May 1, 2024. Following submission to the province, the annual progress report will be posted to the CTC website (ctcswp.ca).

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Date: March 13, 2024

Attachments (2):

Attachment 1: 2023 CTC Source Protection Plan Annual Progress Report
Attachment 2: 2023 CTC Source Protection Plan Supplementary Report



CTC Source Protection Plan Annual Progress Report 2023

I. Introduction

Source protection plans are created under the *Clean Water Act, 2006*. This annual report summarizes the progress made by December 31, 2023 in implementing the Source Protection Plan for municipal drinking water systems in the Credit Valley, Toronto and Region, and Central Lake Ontario (CTC) Source Protection Region.

Protecting the sources of our drinking water is the first step in a multi-barrier approach to safeguard the quality and quantity of our water supplies. The Source Protection Plan is the culmination of extensive science-based assessment, research, consultation, and collaboration with local stakeholders and the provincial government. When policies in the Plan are implemented it ensures that activities carried out near municipal wells and lake-based intakes will not pose significant risk to drinking water supplies.

We acknowledge and recognize the efforts made by municipalities, stakeholders and the CTC Source Protection Committee in the development and implementation of the Source Protection Plan.



II. A message from your local Source Protection Committee

P : Progressing Well/Short of Target – The majority of the source plan policies have been implemented and/or are progressing.

This is the seventh Annual Report on implementation of the CTC Source Protection Plan (Plan) since it took effect on December 31, 2015. All stakeholders responsible for Plan policy implementation reported on their progress in 2023.

89% of the legally binding policies that address significant drinking water threats are implemented in the CTC Region. All municipalities have established processes to ensure that land use planning decisions conform to the Plan.

At the time the Plan came into effect in 2015, over 10,000 significant drinking water threats were identified in the CTC Region. Since then, field verification has reduced that number to 6,133 significant threats. 241 significant drinking water threats remain to be addressed, almost all of these within the Credit River Watershed. Furthermore, approximately 98% of existing significant drinking water threats have been addressed through policy implementation or removed through threats verification.

Approximately 64% of the required risk management plans (RMPs) have been address significant threats. Three municipalities with outstanding risk management plans (Halton Region, Town of Erin, Town of Orangeville) made good progress on RMP establishment in 2023 but will need continued strong efforts to achieve the 2025 deadline for completion of RMPs to address existing significant threats.

Further, the Committee continued to note its concern about increasing sodium and chloride concentrations in the raw water from the municipal wells with identified issues in the drinking water systems for Orangeville and Georgetown and expressed concern about rising levels across the CTC.

As a result, the Committee concluded that implementation of the Plan is progressing well, but short of target.

The Committee will continue to work with source protection authority and municipal staff, as well as the province to identify ways to advance completion of outstanding RMPs.

III. Our Watershed

To learn more, please read our assessment report(s) and Source Protection Plan.

The CTC Source Protection Region contains over 25 large and small watersheds and spans over 3,800 km² of land, from the Oak Ridges Moraine in the north to Lake Ontario in the south. The region contains portions of the Niagara Escarpment, Oak Ridges Moraine, Greenbelt, Lake Ontario, and the most densely populated area of Canada. The CTC Source Protection Region includes 25 local municipalities and eight single tier, regional or county municipalities, 66 municipal supply wells, and 16 municipal surface water intakes in Lake Ontario. The region is complex and diverse in terms of geology, physiography, population, and development pressures. There are many, often conflicting, water uses including, drinking water supply, recreation, irrigation, agriculture, commercial and industrial uses, and ecosystem needs.

The Credit Valley Source Protection Area is formed by one main watercourse, the Credit River, and a number of smaller Lake Ontario tributaries. Nearly 1500 km of streams and creeks empty into the Credit River including Black Creek, Silver Creek, West Credit River, Shaw's Creek, East Credit River, Fletchers Creek, Caledon Creek, and several others. There are thirteen municipal water systems operating in the source protection area, two are surface water based – accessing Lake Ontario as the source; the remainder are groundwater-based. There are no municipal drinking water sources taking from the Credit River. About 1 million people make the Credit watershed their home.

The Toronto and Region Source Protection Area comprises numerous watersheds, plus their collective Lake Ontario waterfront shorelines, to incorporate portions of six upper-tier and 15 lower-tier municipalities. The nine major watersheds are Carruthers, Duffins, Etobicoke, Highland, Mimico, and Petticoat Creeks, and also the Don, Humber and Rouge Rivers. More than 5 million people live within the source protection area with the population expected to grow significantly in the years to come. There are ten municipal water systems operating in the source protection area, five are surface water based – accessing Lake Ontario as the source; the remainder are groundwater-based.

The Central Lake Ontario Source Protection Area is fully contained within the Regional Municipality of Durham. There are numerous watersheds within its boundaries, with the five major watersheds originating at the Oak Ridges Moraine. These major watersheds are Lynde, Oshawa, Farewell, Bowmanville, and Soper Creeks. There are no municipal wells within the source protection area; all municipal drinking water comes from Lake Ontario. There are three municipal drinking water systems: Whitby, Oshawa, and Bowmanville.

IV. At a Glance: Progress on Source Protection Plan Implementation

1. Source Protection Plan Policies

P : Progressing Well/On Target

There are 129 policies in the CTC Source Protection Plan. The policies address: 22 types of threats prescribed in regulation and 1 type of local drinking water threat; other actions considered necessary to protect drinking water sources; and implementation monitoring. Some policies are implemented by a single stakeholder, others by multiple stakeholders.

As of the end of 2023, 89% of legally binding policies and 90% of non-legally binding policies that address significant drinking water threats have been implemented, and the rest are in progress, or have been considered and did not require further action. Sixty-nine percent of policies addressing moderate and low threats have been implemented and the rest are in progress. Furthermore, approximately 98% of existing significant drinking water threats have been addressed (i.e., eliminated or managed).

2. Municipal Progress: Addressing Risks on the Ground

P : Progressing Well/On Target

It is a requirement that municipalities ensure their Official Plan (OP), and where appropriate Zoning by-law, conforms with the local source protection plan. As of December 31, 2023, out of 33 municipalities in CTC Source Protection Region, 30 municipalities have completed or are in the process of completing their OP conformity exercise. With regards to Zoning by-laws, 12 municipalities have completed or are in the process of completing their conformity exercise.

3. Septic Inspections

S: Satisfactory (inspection progress varies across the CTC)

Within the CTC Region, 279 septic systems are expected to be inspected every 5 years to satisfy the requirements of the Ontario Building Code. Municipal septic inspection programs experienced delays in recent years because of the COVID-19 pandemic and resource limitations.

In 2023, 108 inspections were completed, representing 39% of the total inspections required over the 5-year cycle. Of the systems inspected in 2023, 48% did not require any maintenance work, while 34% required minor maintenance. 18% percent required major maintenance.

Municipalities identified 45 overdue septic inspections as of the conclusion of 2023, and Are taking steps for those systems to come into compliance.

4. Risk Management Plans

S: Satisfactory (progress varies across the CTC)

The CTC Source Protection Plan contains policies that require the development of Risk Management Plans (RMPs) to manage some drinking water threats. Screening processes are in place at municipalities to ensure applications for future development are reviewed appropriately for potential threat activities and source protection policy application.

Overall, 182 RMPs are in place within the CTC. Thirty-three of these RMPs were successfully established in 2023, the most since 2019. An additional 90 RMPs are in the process of being negotiated as of the end of the year.

There remain 104 RMPs to be negotiated to address significant threats, with 101 of these required in Halton Region, and the Towns of Orangeville and Erin. Strong efforts by these three municipalities are required to achieve the end of 2025 deadline for completion of RMPs to address existing significant threats.

There were 185 inspections carried out in 2023 by Risk Management Inspectors for prohibited or regulated activities; the most inspections completed in any year to date. There was 98% compliance with RMPs and prohibited activities that were inspected.

5. Provincial Progress: Addressing Risks on the Ground

P : Progressing Well/On Target

Ontario ministries review applications for new or amended provincial approvals (i.e., Prescribed Instruments, such as Environmental Compliance Approvals under the *Environmental Protection Act*), where they have been identified as a tool in our Plan, to address activities that pose a significant risk to sources of drinking water. Where necessary, conditions are added to approvals to ensure that the activity does not pose a significant threat to sources of drinking water.

Provincial ministries screen 100% of applicable incoming applications in accordance with CTC Source Protection Plan prescribed instrument policies. In 2023, ministries conducted detailed review of nine new applications within CTC: one Fuel Handling/Storage, one Permit To Take Water, six Wastewater/Sewage Works and one Nutrient Management Strategy. One Fuel Handling/Storage, one Permit To Take Water and one Nutrient Management Strategy were determined to be significant drinking water threats and had conditions included within the instrument to manage the threat. The six Wastewater/Sewage Works applications were determined not to be significant drinking water threats.

The ministries have previously reported 100% completion of review of previously issued provincial approvals in our source protection region. Three newly identified existing ECAs for wastewater/sewage works were identified as requiring a detailed review for source protection within the CTC in 2023, all were determined not be a significant threat.

Provincial ministries also consider source protection vulnerability when prioritizing sites for planned or proactive inspections. Ministry staff continue to receive training on the source protection program, their annual reporting requirements, and recent amendments to the Technical Rules.

6. Source Protection Awareness and Change in Behaviour

Municipalities, conservation authorities and other implementing bodies within the CTC Source Protection Region work with landowners and business owners to help safeguard our sources of drinking water. Municipalities across the CTC have established education and outreach programs, which contribute to enhancing awareness of source water protection. Examples of 2023 efforts to build awareness include:

- Orangeville marked its first full year of their water softener rebate program, to promote water conservation and reduce salt loading to municipal sewers
- Wellington County municipalities hosted forty education and outreach events targeted to: several municipal departments, maintenance contractors, septic system owners, communities and schools. Stickers and metals tags listing the Spills Action Centre number and location were handed out to property owners in vulnerable areas
- York Region has initiated a sodium and chloride research and mitigation pilot project in Stouffville
- The Lake Ontario Collaborative Group's (Peel, Toronto, Durham) Lake Ontario Water Quality Forecasting System was presented at several 2023 conferences
- Credit Valley Conservation continued education and outreach to owners of non-municipal drinking water sources to promote source water protection best practices

7. Source Protection Plan Policies: Summary of Delays

A number of policies associated with implementation of outstanding Risk Management Plans to address existing threats, remain in progress for three municipalities.

Provincewide, all source protection plans were required to include policies to address significant drinking water threats. The CTC Source Protection Committee chose to also include policies to address moderate and low drinking water threats. These moderate and low drinking water threat policies relate to the application of road salt, the handling and storage of certain chemicals and provision of education and outreach materials. Since the implementation of these moderate and low threat policies (SAL-12, SAL-13, DNAP-3, OS-3) are non-legally binding, their implementation status varies across the source protection region.

Official Plan and By-Law Zoning updates to conform with the CTC Source Protection Plan continue to be undertaken as these documents are updated.

8. Source Water Quality: Monitoring and Actions

Thirteen drinking water issues have been identified at wells in three drinking water systems in our Source Protection Region. For these drinking water systems, the Source Protection Plan requires that the municipality establish more frequent raw water quality monitoring to help further characterize concentrations and trends. All municipalities have monitoring and treatment systems in place to ensure that municipal drinking water meets the requirements of the *Safe Drinking Water Act, 2002*.

Over the past year, the CTC has been working with municipal partners to develop updated statistical methods to better assess trends in groundwater quality, focused on nitrate, sodium and chloride. The intention is to support water quality trend analysis, and issue identification, monitoring and potential delisting. The following analysis is based, where possible, on these updated methods.

In the Orangeville Drinking Water System, five wells have been identified with chloride issues and three wells with sodium issues. Chloride concentrations continue to increase in all five wells. Sodium concentrations in the affected wells also continue to increase.

In the Acton Drinking Water System, two wells have been identified with nitrate issues and concentrations appear to be declining.

In the Georgetown Drinking Water System, three wells have been identified with chloride issues and concentrations continue to increase.

Over time, appropriate monitoring will help determine if implementation of Plan policies and other actions are improving the raw water quality for these systems. Further assessment to improve water quality trend analysis across the CTC Region is continuing in 2024.

9. Science-based Assessment Reports: Work Plans

No work plans were required to be implemented for our assessment report(s).

Review of the 2021 Technical Rules is ongoing and the Source Protection Committee is guiding a multi-year comprehensive review and update of the CTC Source Protection Plan and assessment reports under s.36 of the *Clean Water Act, 2006*.

In 2023, the CTC continued work on updated water quality trend analysis and issues identification methods.

10. More from the Watershed

To learn more about our source protection region, visit our new website at <https://ctcswp.ca/>



Source Water Protection Annual Report

2023 - Supplemental Form

SPR - CTC

Report Id	Completed	Question
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10	True	As applicable to your source protection region/area, indicate if all relevant implementing bodies submitted a status update/annual report to the source protection authority for the previous reporting year. If "No" is selected for any implementing body(ies), then please complete the Comments field below with details including the name of the specific implementing body along with an explanation, if available, for not submitting a status update/annual report as required by a monitoring policy. *NOTE: Where a listed implementing body(ies) is not applicable/relevant to your source protection region/area, then simply select "No" and explain that it is not an applicable implementing body in your source protection region/area in the Comments field text box.
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Response	Answer
Risk Management Official	Yes
Municipality	Yes
Conservation Authority	Yes
Local Health Unit	No
MECP - Waste Disposal Sites - Landfilling and Storage	Yes
MECP - Wastewater/Sewage Works	Yes
MECP - Pesticides	Yes
MECP - Hauled Sewage/Biosolids	Yes
MECP - Hauled Sewage/Biosolids Inspections	Yes
MECP - Permit to Take Water	Yes
MECP - Permit to Take Water Inspections	Yes
MECP - Municipal Residential Drinking Water Systems	Yes
MECP - Municipal Residential Drinking Water Systems Inspections	Yes
MECP - Source Protection	Yes
MECP - Waste Disposal Sites - Landfilling and Storage Inspections	Yes
MECP - Wastewater/Sewage Works Inspections	Yes
MECP - Conditions Sites	No
MECP - NMA - ASM and NASM Inspections	Yes
MECP - Environmental Monitoring	No
MECP - Fuel	Yes
MECP - Great Lakes	Yes



Source Water Protection Annual Report 2023 - Supplemental Form SPR - CTC

MECP - Spills Response	Yes
MECP - Wells	No
OMAFRA	Yes
MNRF	Yes
MTO	Yes
MMAH	Yes
MGCS-TSSA	Yes
MENDM	No
Provincial Board/Commission	Yes
Federal Departments/Agencies/Commissions/Crown Corporations	No
Private Entity/Company	No
Association/Organization	No

Comment: Local Health Unit - Not applicable implementing body: cooperation on policy SWG-7 only.
 MECP Condition Sites - Not applicable implementing body: no identified conditions sites in CTC.
 MECP Environmental Monitoring - Not applicable implementing body, see policy LO-G-2 for cooperation with LOCG
 MECP Wells - not applicable implementing body
 MENDM - Not applicable implementing body
 Federal Departments/Agencies/Commissions/Crown Corporations - Not applicable implementing body
 Private Entity/Company - Not applicable implementing body
 Association/Organization - Not applicable implementing body

Note: CTC is hosting a introductory/refresher session for municipal planning staff across CTC on Drinking Source Water Protection in late March 2024. This session will go over the basics of source protection, including implementation and reporting.



Source Water Protection Annual Report

2023 - Supplemental Form

SPR - CTC

Report Id	Completed	Question	Category
20	True	Did the Source Protection Authority indicate the status of all threat policies as contained in their source protection plan? Please provide details in the response field text box in the Policy Interface for policies with a "No Progress Made" and "No information available/no response received" implementation status especially for legally-binding policies that address significant drinking water threat activities and for any moderate/low threat policies that use prescribed instruments and Planning Act tools.	Implementation status of source protection plan policies
Answer:		Yes	
Comment:			

Report Id	Completed	Question	Category
21	True	Did the source protection authority(ies) confirm the accuracy of the implementation status of all threat policies as contained in their source protection plan and located on the policy interface database for the current reporting year?	Monitoring Policy Implementation
Answer:		Yes	
Comment:			

Report Id	Completed	Question	Category
22	True	Did all source protection authority(ies) confirm that if a policy is significant and legally binding and has not been implemented by a person or a body by the implementation date specified in the policy, that there are written comments that include a description of the failure and the reasons for the failure as per O.Reg 287/07 s.52(1)1.?	Monitoring Policy Implementation
Answer:		Yes	
Comment:			



Source Water Protection Annual Report

2023 - Supplemental Form

SPR - CTC

Report Id Completed Question

30 True Number of risk management plans agreed to or established within the source protection area/region (to address existing and future threats) in this reporting period (i.e., annual total).

Current Year Cumulative Count

33 180

Provincial Total

33 180

Comment:

Report Id Completed Question

31 True Number of properties (i.e., parcels) with risk management plans agreed to or established in this reporting period.

Current Year Cumulative Count

34 212

Provincial Total

34 212

Comment:

Report Id Completed Question

32 True How many existing* significant drinking water threats have been managed through the established risk management plans in this reporting period (* meaning engaged in OR enumerated as existing significant threats)?

Current Year Cumulative Count

59 338

Provincial Total

59 338

Comment:



Source Water Protection Annual Report

2023 - Supplemental Form

SPR - CTC

Report Id Completed Question

40 True How many section 59 notices were issued in this reporting period for activities to which neither a prohibition (section 57) nor a risk management plan (section 58) policy applied, as per ss. 59(2)(a) of the Clean Water Act?

Current Year Cumulative Count

21 272

Provincial Total

21 272

Comment:

Report Id Completed Question

41 True How many section 59 notices were issued in this reporting period for activities to which a risk management plan (section 58) policy applied, as per ss. 59(2)(b) of the Clean Water Act?

Current Year Cumulative Count

9 79

Provincial Total

9 79

Comment:

Report Id Completed Question

61 True State the total number of inspections (including any follow-up site visits) that were carried out for activities (existing or future) that are prohibited under section 57 of the Clean Water Act in this reporting period. If no inspections were conducted in the previous calendar year, please explain.

Current Year Cumulative Count

42 210

Provincial Total

42 210

Comment:



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Report Id Completed Question

62 True Among the inspections conducted for section 57, how many showed that activities were taking place on the landscape even though they were prohibited (i.e., in contravention) under section 57 of the Clean Water Act in this reporting period?

Current Year Cumulative Count

0 0

Provincial Total

0 0

Comment:

Report Id Completed Question

63 True How many new properties were identified with s.57 prohibited activities during the reporting year (do not include properties established outside of this reporting year)?

Current Year Cumulative Count

0 0

Provincial Total

0 0

Comment:

Report Id Completed Question

70 True How many existing significant drinking water threats have been prohibited as a result of section 57 prohibitions in this reporting period?

Current Year Cumulative Count

0 34

Provincial Total

0 34

Comment:



Source Water Protection Annual Report

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SPR - CTC

Report Id Completed Question

80 True State the total number of inspections (including any follow-up site visits) that were carried out for activities that require a risk management plan under section 58 of the Clean Water Act in this reporting period. If no inspections were conducted in the previous calendar year, please explain.

Current Year Cumulative Count

143 433

Provincial Total

143 433

Comment:

Report Id Completed Question

81 True Among the inspections conducted for section 58, how many were in contravention with section 58 of the Clean Water Act in this reporting period (i.e., person engaging in a drinking water threat activity without a risk management plan as required by the source protection plan)?

Current Year Cumulative Count

3 4

Provincial Total

3 4

Comment:



Source Water Protection Annual Report

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Report Id Completed Question

82 True Among the inspections for section 58, how many were in non-compliance with the specific contents of the risk management plan in this reporting period? (NOTE: Please only include those inspections that showed non-compliance with measures/conditions to manage the actual threat activity.)

Current Year Cumulative Count

0 1

Provincial Total

0 1

Comment:

Report Id Completed Question

83 True State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 57 in this reporting period.

Current Year Cumulative Count

0 0

Provincial Total

0 0

Comment:

Report Id Completed Question

84 True State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 58 in this reporting period.

Current Year Cumulative Count

1 1

Provincial Total

1 1

Comment:



Source Water Protection Annual Report 2023 - Supplemental Form SPR - CTC

Report Id Completed Question

85 True State the total number of orders issued for contraventions and/or non-compliance found with section 57 in this reporting period.

Current Year Cumulative Count

0 0

Provincial Total

0 0

Comment:

Report Id Completed Question

86 True State the total number of orders issued for contraventions and/or non-compliance found with section 58 in this reporting period.

Current Year Cumulative Count

0 0

Provincial Total

0 0

Comment:

Report Id Completed Question

220 True List the municipality(ies) (including upper-, lower-, and single-tier) within the source protection region/area that are required to complete Official Plan and Zoning exercises to conform to the latest source protection plan, and indicate the status of those exercises for each applicable municipality. "Latest source protection plan" means the first approved plan or any subsequent approved plan update. *NOTE: Applies to every municipality affected by land use planning or Part IV type policies. Where the official plan and/or zoning by-law status for any particular municipality needs to be changed/updated, then please do so by deleting the entry for that particular municipality by clicking on the red "-" (minus) sign and then re-select the municipality name from the drop down list of municipalities followed by selecting the updated status of the conformity exercise for the official plan and zoning by-law from the drop down list for that particular municipality. After doing so, please be sure to add the municipality as your response by clicking on the green plus sign.

Municipality

Township of King

Official Plan

Completed

Zoning By Law

Completed



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Township of East Garafraxa	Completed	In Progress/Updates Underway
City of Pickering	Completed	Not Applicable
City of Toronto	Completed	Not Applicable
Peel, Regional Municipality of	Completed	Not Applicable
York, Regional Municipality of	Completed	Not Applicable
Township of Uxbridge	Completed, but Under appeal	Completed
Dufferin, County of	Completed, but Under appeal	Not Applicable
Town of Markham	In Progress/Updates Underway	Completed
City of Vaughan	In Progress/Updates Underway	In Progress/Updates Underway
Town of Caledon	In Progress/Updates Underway	In Progress/Updates Underway
Town of Mono	In Progress/Updates Underway	In Progress/Updates Underway
Town of Oakville	In Progress/Updates Underway	In Progress/Updates Underway
Town of Richmond Hill	In Progress/Updates Underway	In Progress/Updates Underway
Township of Amaranth	In Progress/Updates Underway	In Progress/Updates Underway
Durham, Regional Municipality of	In Progress/Updates Underway	Not Applicable
Halton, Regional Municipality of	In Progress/Updates Underway	Not Applicable
Town of Aurora	In Progress/Updates Underway	Not Started
Town of Halton Hills	In Progress/Updates Underway	Not Started
Town of Milton	In Progress/Updates Underway	Not Started
Town of Orangeville	In Progress/Updates Underway	Not Started
Town of Whitchurch-Stouffville	In Progress/Updates Underway	Not Started
Township of Adjala-Tosorontio	In Progress/Updates Underway	Not Started
Town of Erin	Needs updating to reflect amended SPP	In Progress/Updates Underway
Simcoe, County of	Needs updating to reflect amended SPP	Not Applicable
Wellington, County of	Needs updating to reflect amended SPP	Not Applicable
City of Oshawa	Needs updating to reflect amended SPP	Not Started
Municipality of Clarington	Needs updating to reflect amended SPP	Not Started



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Town of Whitby	Needs updating to reflect amended SPP	Not Started
Township of Scugog	Needs updating to reflect amended SPP	Not Started
City of Brampton	Not Applicable	Not Applicable
City of Mississauga	Not Applicable	Not Applicable
Town of Ajax	Not Started	In Progress/Updates Underway

Comment:

Report Id	Completed	Question
240	True	State the number of source water protection signs installed on provincial highways in the source protection region/area in this reporting period.

Current Year	Cumulative Count
--------------	------------------

0	0
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Provincial Total	0	0
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Comment:

Report Id	Completed	Question
241	True	State the number of source water protection signs installed on municipal roads in the source protection region/area in this reporting period.

Current Year	Cumulative Count
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0	8
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Provincial Total	0	8
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Comment:



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Report Id Completed Question

242 True State the number of source water protection signs installed at other locations (if applicable) in the source protection region/area in this reporting period.

Current Year Cumulative Count

0 0

Provincial Total

0 0

Comment: Our best information suggests there are about 61 cumulative signs installed at other locations across CTC.

Report Id Completed Question

Category

260 True Current total overall number of on-site sewage systems that are assessed as significant drinking water threat activities and that are required to be inspected every five years in accordance with the Ontario Building Code.

Sewage
System
Inspections

Answer: 279

Comment:

Report Id Completed Question

Category

261 True Of those requiring inspections, how many inspections of on-site sewage systems were due to be carried out in this reporting period? If not applicable or no inspections of on-site sewage systems were due to be carried out in this reporting period because they were already inspected earlier within the inspection cycle or will be inspected in a future year within the cycle, then please enter "0" and state either explanation in the comment field.

Sewage
System
Inspections

Answer: 153

Comment:



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Report Id Completed Question

262 True How many on-site sewage system inspections were completed in this reporting period?

Current Year Cumulative Count

108 491

Provincial Total

108 491

Comment:

Report Id Completed Question

263 True How many of the inspected on-site sewage systems required minor maintenance work in this reporting period?

Current Year Cumulative Count

37 80

Provincial Total

37 80

Comment:

Report Id Completed Question

264 True How many of the inspected on-site sewage systems required major maintenance work (e.g., tank replacement, etc.) in this reporting period?

Current Year Cumulative Count

19 27

Provincial Total

19 27

Comment:



Source Water Protection Annual Report 2023 - Supplemental Form SPR - CTC

Report Id	Completed	Question	Category
265	True	How many of the inspected on-site sewage systems required no maintenance work?	Sewage System Inspections
Answer:	52		
Comment:			



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Report Id Completed Question

266 True For those on-site sewage systems that were not inspected in this reporting period but should have been inspected, and are now out of compliance, please indicate why they were not all inspected from among the reasons below. [Note: For municipalities that have not yet initiated the mandatory on-site sewage system inspection program, please see the next reportable to provide your response if this is the case].

Response	Answer
landowner refused entry, compliance order being sought	Yes
inspections delayed/postponed due to COVID-19 restrictions	No
vulnerable area changed and on-site sewage system(s) no longer a threat activity	No
other. Please specify in the comment box below.	Yes

Comment: Three municipalities reported systems that were not inspected in 2023, but were due for inspection. Erin: for 15 systems, compliance orders are being sought as landowners refused entry. Halton Hills: for 1 system, staff are seeking confirmation the system has been decommissioned and would no longer require an inspection. York Region: for 27 systems in Whitchurch-Stouffville and 2 systems in Vaughan, ongoing inspection delays resulted from challenges relating to: limited staff resources for area municipalities, residential financial constraints, seasonal weather obstacles, and difficulties enforcing compliance with property owners who have leased their homes to tenants. Next steps include issuing of final notices and possible compliance orders.



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Report Id Completed Question

270 True Complete the information below regarding environmental monitoring of drinking water issues identified in accordance with the Technical Rules within your source protection region/area. Begin by selecting the drinking water system, the specific well or intake, the drinking water issue, the delineation status, and the observation of the concentration. [OPTIONAL]: In the comments field, describe any actions or behavioural changes that might be contributing to reported changes in the concentration of the issue or parameter. Where the drinking water issue, well or intake, delineation status, or observation of any previously listed drinking water system needs to be changed/updated, then please do so by deleting the entry for that particular drinking water system by clicking on the red minus sign on the right side of the entry and then re-select the drinking water system from the dropdown list of drinking water systems followed by selecting the associated well or intake, the drinking water issue, its delineation status, and the observation from the dropdown list for that particular drinking water system. After doing so, please be sure to add the drinking water system as your response by clicking on the green plus sign on the right side of the entry. If this reportable is not applicable to your source protection region/area, please indicate as such by choosing "No system with issues," "Not Known/Available," "No issue," "Not applicable," and "No observation," respectively, under the drop down menu options under each of the categories of this reportable. Do not leave blank.

DWIS Number	DWIS Name	Issue	ICA Delinated	Observation
220003252	Orangeville Well Supply	Sodium	Yes	Increasing Concentration / Trend
220003252	Orangeville Well Supply	Sodium	Yes	Increasing Concentration / Trend
220003252	Orangeville Well Supply	Sodium	Yes	Increasing Concentration / Trend
220003252	Orangeville Well Supply	Chloride	Yes	Increasing Concentration / Trend
220003252	Orangeville Well Supply	Chloride	Yes	Increasing Concentration / Trend
220003252	Orangeville Well Supply	Chloride	Yes	Increasing Concentration / Trend
220003252	Orangeville Well Supply	Chloride	Yes	Increasing Concentration / Trend
220003252	Orangeville Well Supply	Chloride	Yes	Increasing Concentration / Trend
220003252	Orangeville Well Supply	Chloride	Yes	Increasing Concentration / Trend
220001655	Georgetown Well Supply	Chloride	Yes	Increasing Concentration / Trend
220001655	Georgetown Well Supply	Chloride	Yes	Increasing Concentration / Trend
220001655	Georgetown Well Supply	Chloride	Yes	Increasing Concentration / Trend
220001673	Acton Well Supply	Nitrate	Yes	Decreasing Concentration / Trend
220001673	Acton Well Supply	Nitrate	Yes	Decreasing Concentration / Trend
220004037	Inglewood Well Supply	-- Decommissioned --	--Not Applicable --	-- No Observation --



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Comment: CTC has proposed switching to an updated statistical analysis method using General Additive Models (GAMs), as opposed to relying on linear projections for trend analysis for identified issues. The observations for 2023, are based on the results of that approach as presented in the CTC SPR Water Quality Assessment Technical Report at CTC SPC Meeting #3/23.

In the Orangeville Drinking Water System (DWS), five wells have been identified with chloride issues and three wells with sodium issues. Chloride concentrations continue to increase in all five wells (6, 9A, 9B, 10, and 11). Sodium concentrations in the affected wells continue to increase (6, 9A, and 9B).

In the Acton DWS, Davidson 1 and 2 wells have been identified with nitrate issues, analysis suggests concentrations appear to be decreasing.

In the Georgetown DWS, Cedarvale 1A, 4 and 4A wells have been identified with chloride issues and concentrations continue to increase.

In York Region, staff are continuing their investigation onto a possible future identification of an issue for sodium and chloride at Stouffville PW3.

Regarding the Inglewood Well supply: Inglewood Well No. 2 previously had an identified issue for pathogens. This well was disconnected in 2020, decommissioned in 2021, and therefore removed from the CVSPA Assessment Report and CTC Source Protection Plan in May 2022. Accordingly, the municipality has discontinued monitoring this former issue there.

Report Id Completed Question

280 True How many notices about transport pathways (meaning a condition of land resulting from human activity (e.g., pits and quarries, improperly abandoned wells, geothermal system, etc.) that increases the vulnerability of a raw water supply of a drinking water system) did the source protection authority receive from municipalities in this reporting period (as per O. Reg. 287/07, ss. 27(3))?

Current Year Cumulative Count

0 1

Provincial Total

0 1

Comment: The development of a formal transport pathway notification process is expected to be finalized in 2024.



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Report Id **Completed** **Question**

281 True Where transport pathway notices were received, indicate the action(s) taken by the source protection region/area in response to receiving these notices:

Response	Answer
Provided information to municipalities about changes in vulnerability	No
Provided notice to Source Protection Committee for information	No
Situation continues to be monitored	No

Comment: Not applicable, as no Transport Pathway notifications were received in 2023. The development of a formal transport pathway notification process is expected to be finalized in 2024.



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Report Id	Completed	Question	Response	Answer
300	True	[OPTIONAL]: If and where there are successful examples for each of the following initiatives in the source protection region/area (including from local municipalities, residents and businesses) that occurred in this reporting period that the authority wishes to highlight, then please indicate in the Comments field below. In your comments, please include details for each of the selected topics. Please limit the descriptions provided (e.g., one example for each topic or more could be included when the source protection authority feels they are exceptional/quite successful).		
			Education and Outreach (in description include details, if available, on type and percentage of target population reached, outcome(s) achieved, etc.)	Yes
			Incentives (in description include details, if available, on outcome(s) achieved, how widely available was the incentive, etc.)	Yes
			Stewardship Programs	No
			Best Management Practices	Yes
			Pilot Programs	Yes
			Research	Yes
			Specify Action (e.g., road salt management, municipal by-laws, legislative or regulatory amendments, mapping, review of fuel codes, new airport facility design standards to manage runoff of chemicals from de-icing of aircraft, instrumentation, etc.)	No
			Climate Change (e.g., data collection)	No
			Spill prevention/spill contingency/emergency response plan updates	Yes
			Transport pathways	No
			Water quantity	No
			Great Lakes	No
			Other policies (i.e., strategic action, etc.)	Yes



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Comment: E&O:

- Wellington County municipalities hosted forty education and outreach events targeted to: several municipal departments, maintenance contractors, septic system owners, communities and schools. Stickers and metals tags listing the Spills Action Centre number and location were handed out to property owners in vulnerable areas. Staff participated in the Waterloo-Wellington Children's Groundwater Festival, which occurred in both virtual and in-person formats in 2023, to deliver water protection messages including source protection
- RMO's distributed salt bin stickers, promoting best practices for salt storage
- Credit Valley Conservation continued education and outreach to owners of non-municipal drinking water sources to promote source water protection best practices

Incentives

- Orangeville marked its first full year of their water softener rebate program, to promote water conservation and reduce salt loading to municipal sewers

BMP's

- In Wellington County municipalities, staff managed and assisted in the delivery of six Septic Social Events to educate and answer questions from residents about the mandatory septic inspection program,

Research/Pilot programs

- York Region is continuing a sodium and chloride research and mitigation pilot project in Stouffville
- CTC staff have been working to improve issues identification methods and issues delisting criterion.

Spill contingency/Strategic Action

- The Lake Ontario Collaborative Group's (Peel, Toronto, Durham) Lake Ontario Water Quality Forecasting System (LOWQFS) continued to undergo development and improvements to how it monitors and analyses spill events and possible impacts, as part of Decision Support System updates in 2023. The LOWQFS was also presented at several 2023 conferences.



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Report Id Completed Question

305 True

Complete the table below with the count data for each significant drinking water threat activity/local threat activity/condition being engaged in (i.e., enumerated as 'existing' significant threats) at the time of source protection plan approval or approval of amendments that include new / changing protection zones. Please use the best available information/desktop exercises, reports from Risk Management Officials, and other implementing bodies to provide the counts below. For convenience, the count data from the previous reporting year have been copied over, but please be sure to review, edit, and confirm the counts for accuracy in the table below. [CWA Section 46(1)(a)]

The running tally consists of the formula: A+B-C-D where:

- A = Number of significant drinking water threats estimated when the source protection plan was first approved
- B = Number of additional significant drinking water threats counted after the first source protection plan approval (not part of the original estimate)
- C = Number of significant drinking water threats included in A that were determined through field verification to no longer exist because: (i) the threat was not actually engaged in at a particular location after all OR (ii) it was no longer engaged in (e.g., land may still have an agricultural operation but owner is no longer applying pesticides for their own reasons)
- D = Number of significant drinking water threats addressed because a policy is implemented. (It is understood that multiple policies/policy tools may address a single threat on the landscape. If any one policy is implemented and directed at that single threat it is considered addressed.)

In the comments box below summarize any remaining significant threats needing to be addressed for each source protection authority and what actions will be taken to eliminate those threats. If all threats have been addressed for each source protection authority(ies) write "All known significant threats have been addressed" in the comments box. Note that this summary response will be posted under the objective summary section 2 of the report.

ThreatId	Threat	A	B	C	D
1	The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the Environmental Protection Act.	11	6	10	7
2	The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	172	78	153	222
3	The application of agricultural source material to land.	65	6	47	12
4	The storage of agricultural source material.	39	12	42	2



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5	The management of agricultural source material.	0	0	0	0
6	The application of non-agricultural source material to land.	9	2	8	0
7	The handling and storage of non-agricultural source material.	0	0	0	0
8	The application of commercial fertilizer to land.	57	25	51	24
9	The handling and storage of commercial fertilizer.	89	13	99	2
10	The application of pesticide to land.	126	48	143	23
11	The handling and storage of pesticide.	110	17	127	0
12	The application of road salt.	546 9	8	619	478 6
13	The handling and storage of road salt.	117 1	81	935	291
14	The storage of snow.	60	111	0	131
15	The handling and storage of fuel.	366	12	350	27
16	The handling and storage of a dense non-aqueous phase liquid.	287	63	245	89
17	The handling and storage of an organic solvent.	68	2	64	6
18	The management of runoff that contains chemicals used in the de-icing of aircraft.	0	0	0	0
19	Water taking from an aquifer without returning the water to the same aquifer or surface water body	233	0	0	233
20	Reducing recharge of an aquifer	3	0	0	3
21	The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard. O. Reg. 385/08, s. 3.	176	4	167	4
22	The establishment and operation of a liquid hydrocarbon pipeline	12	0	0	12
1000	Water conditioning salts from water softeners	0	0	0	0



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1001	Transportation of specified substances along corridors	0	0	0	0
1002	Spill of Tritium from Nuclear Generating Station	2	0	0	2
1003	Handling storage of fuel	0	0	0	0
1004	Transportation, storage and handling of diesel/gasoline	0	0	0	0
1005	Transportation of Agricultural and Non-Agricultural Source Materials	0	0	0	0
1006	International Shipping Channel within IPZ2	0	0	0	0
1007	Transportation of hazardous substances along transportation corridors	0	0	0	0
1008	Transportation or Storage and Handling of Fuel in an Event Based Area	0	0	0	0
1009	Waterfowl	0	0	0	0
1010	Local condition	0	0	0	0
	587	611			
	6	7			
			Totals:	10073	488
				4444	5876

Comment: There are 16 other identified significant threats to CTC Lake Ontario intakes (4 WWTP disinfection failures, 6 WWTP bypasses, 4 STS breaks, and 2 petroleum storage spills) from within the CTC area, not identified in this table. There another 9 significant threats (4 pipeline breaks, 1 bulk storage spill, 3 WWTP disinfection failures, and 1 mini tank spill) to CTC Lake Ontario intakes from locations outside the CTC, also not included in this table.

MECP Calc (C+D)/(A+B): 98 %



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Report Id	Completed	Question	Category
310	True	Please provide comments below to explain the overall progress made in addressing existing significant threat activities and include the percentage of overall progress made within the comments provided. The percentage of overall progress made in addressing local threats and conditions that are taking place on the landscape is determined by taking the total number in column D (i.e., significant drinking water threat addressed because policy is implemented) from the table above (reportable 305) adding it to C (i.e., significant threats determined through field verification to no longer be threats) and dividing it by the number that is derived by adding the total numbers in columns A and B. In other words, overall progress made = (C+D)/(A + B).	Addressing existing enumerated threats
Answer:		Percentage of overall progress: ~97.7%	

Comment:

Report Id	Completed	Question	Category
320	True	If applicable, where the 2013/2017 technical rules were used for the assessment report update/amendment, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 30.1: Water Budget Tier 3 not included in your original assessment report(s).	Assessment report information gaps
Answer:		Not applicable	

Comment:

Report Id	Completed	Question	Category
321	True	If applicable, where the 2013/2017 technical rules were used for the assessment report update/amendment, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 50.1: GUDI for WHPA-E or F not included in your original assessment report(s).	Assessment report information gaps
Answer:		Not applicable	

Comment:



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Report Id	Completed	Question	Category
322	True	If applicable, where the 2013/2017 technical rules were used for the assessment report update/amendment, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 116: Issue Contributing Area not included in your original assessment report(s).	Assessment report information gaps

Answer: Not applicable

Comment: Note: Rule 116 has been removed from the most recent approved Technical Rules (2021).

Report Id	Completed	Question	Category
323	True	[OPTIONAL] If applicable where the 2021 technical rules were used for the assessment report update/amendment, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 30.1: Water Budget Tier 3 not included in your original assessment report(s).	Assessment report information gaps

Answer: Not applicable

Comment: No work plans were required to be implemented for our assessment report(s).

Tier 3 Water Budget updates are planned for Town of Orangeville and Halton Region.

Review of the 2021 Technical rules is ongoing and the Source Protection Committee is guiding a multi-year comprehensive review and update of the CTC Source Protection Plan and Assessment Reports under s.36 of the Clean Water Act, 2006. In 2023, the CTC continued work on updated water quality trend analysis and issues identification methods.



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Report Id	Completed	Question	Category
324	True	[OPTIONAL] Where the 2021 technical rules were used for the assessment report update/amendment, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 50.1: GUDI for WHPA-E or F not included in your original assessment report(s).	Assessment report information gaps
Answer:		Not applicable	
Comment:			



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Report Id	Completed	Question	Category
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330	True	Does the source protection authority have any other item(s) on which it wishes to report? If so, please explain.	Other reporting items
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Answer: Regarding SPP policy T-6 (extension to s.58 RMP completion deadline):
 In 2020, the CTC Source Protection Committee authorized a 3-year extension (to December 31, 2023) for the completion of outstanding risk management plans (RMPs) that were originally required to be finalized by December 31, 2020. The 3-year extension, was further approved by the Ministry of Environment, Conservation and Parks. The CTC Source Protection Region provided a work plan on establishing the remaining outstanding RMPs, to the Ministry, on April 29, 2021. In March 2023, the CTC Source Protection Committee authorized a further 2-year extension (to December 31, 2025) to this deadline, which was approved by the Ministry of Environment, Conservation and Parks in November 2023. Staff from the three impacted municipalities sought and received support for their ongoing RMP implementation from their respective councils in late 2023.
 On Mar. 20, 2024, the CTC Source Protection Committee received an annual update on municipal progress in completing RMPs to address existing significant drinking water threats, as per the revised deadline. Thirty-three RMPs to address outstanding existing significant threats were completed in 2023, relative to the target of forty-four in the revised workplan to complete RMPs by December 2025. The shortfall was attributed to a number of factors, including: agricultural RMP negotiation window limitations and limited availability; ongoing need for reengagement with property owners; desire to maintain positive relations with property owners; property ownership changes; slow progress for upper level government properties; low response to outreach attempts; resistance to final sign-off; and limited staff resources/turnover.

Regarding SPP policy DEM-6 (development of Joint Municipal Water Supply Management Model for 4 Dufferin municipalities):
 The Joint Municipal Water Supply Management Model agreement was executed in early 2023 by the four partner municipalities: Township of Amaranth, Township of East Garafraxa, Town of Mono, and Town of Orangeville. This completes a requirement of CTC Source Protection Plan policy DEM-6. The intent of the Agreement is to facilitate the planning, management and protection of water sources to ensure sustainability of a long-term water supply in each of these municipalities, in particular the WHPA-Q1 area. A WHPA-Q1 is the area where activities that take water without returning it to the same source may be a water quantity threat. The agreement commits the four municipalities to: meet and share information, undertake model updates based on threshold triggers and conditions, complete risk assessment and peer review. The terms also lay out apportionment of costs, and a dispute resolution mechanism.

Comment:



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Report Id Completed Question

350 True In the opinion of the Source Protection Committee, to what extent have the objectives of the source protection plan been achieved in this reporting period?

Response **Answer**

Progressing Well - The majority of the policies from the approved original or an amended source protection plan have been implemented and/or are progressing well Yes

Satisfactory - Some of the policies from the approved original or an amended source protection plan have been implemented and/or are progressing well No

Limited Progress made - A few of the policies from the approved original or an amended source protection plan have been implemented and/or are progressing well No

Comment: CTC staff have recommended the following assessment of Source Protection Plan implementation progress for the Committee's consideration at its March 20, 2024 meeting: In its review of the 2023 Annual Progress Report, the CTC Source Protection Committee again chose a modified assessment of progress in achieving the source protection's objectives. Specifically, the SPC indicated that in their opinion: implementation of the Source Protection Plan has progressed well but is short of target in achieving the plan's objectives.



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Report Id	Completed	Question	Category
351	True	Please provide comments to explain how the Source Protection Committee arrived at its opinion. Include a summary of any discussions that might have been had amongst the Source Protection Committee members, especially where no consensus was reached.	Achievement of source protection plan objectives
Answer:		Staff of the CTC Source Protection Region conducted a detailed analysis of the data received from policy implementing bodies and developed the draft 2023 Annual Progress Report and Supplementary Report. The CTC Source Protection Committee (SPC) was provided the draft 2023 Annual Progress Report and Supplementary Report on March 14, 2024, including a recommendation from staff regarding progress. The SPC met on March 20, 2024 to review plan implementation progress and their assessment of progress.	
Comment:			