

Thames – Sydenham and Region Source Protection Committee

Meeting Notice

Please be advised that a meeting of the Thames-Sydenham and Region Source Protection Committee has been called for the following time. Please confirm attendance with Deb Kirk at 519-451-2800 x256.

Meeting Date: March 23, 2018

Meeting Time: 10:00 am -1:30 p.m.

Meeting Location: Upper Thames Conservation Authority Board Room

Proposed Agenda

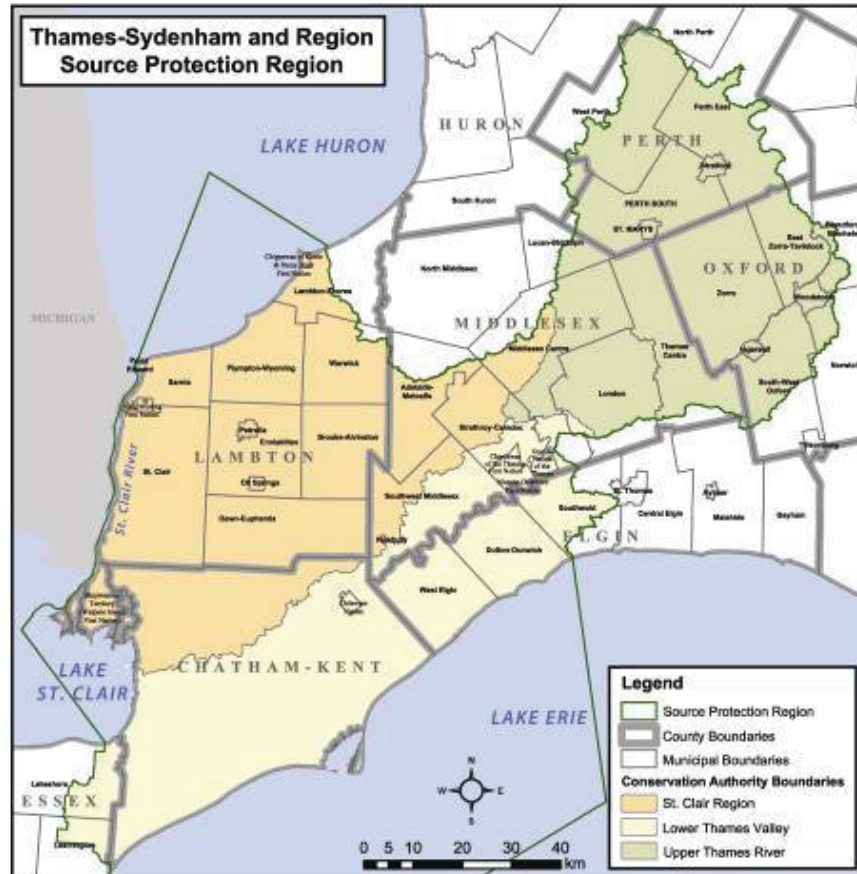
1	Chair's Welcome and Introductions	10:00
2	Adoption of the Agenda	
3	Delegations – Violet Towell of Wallaceburg Wind Turbine Concerns For Otter Creek Wind Farm-15 minutes	10:00-10:15
4	Declaration of Conflict of Interest	
5	Business arising from the minutes	10:15-10:20
6	Business	
6a	2017 Annual Report Submission (60 min)	10:20-11:20
6b	Section 36 Workplan Engagement and Submission Process (20 min)	11:20-11:40
6c	SPC Communications Plan (25 min)	11:40-12:05
<i>Break for Lunch</i>		
6d	IPZ Vulnerability Scoring - Re-Evaluation (15 min)	12:30-12:45
6e	EBR postings for Safe Drinking Water Act and Clean Water Act (15 min)	12:45-1:00
6f	SPC Reappointment/Replacement Process Update (15 min)	1:00-1:15
7	Information	1:15
	7a – News Article re: Quebec court proceedings about Town's drinking water	
8	In Camera Session (not planned)	
9	Other Business	1:25
10	MOE Liaison report	
11	Member Reports	
12	Adjournment	1:45
	<i>Next Meeting:</i> Friday, June 22 nd , 2018 (to be determined)	

Source Protection Annual Progress Report | DRAFT

I. Introduction

This annual progress report outlines the progress made in implementing our source protection plan(s) for the Lower Thames Valley Source Protection Area, St. Clair Region Source Protection Area and Upper Thames River Source Protection Area, as required by the Clean Water Act and regulations.

This is the first Annual Report on the implementation progress of the Drinking Water Source Protection Program in the Thames-Sydenham and Region. The report was written for the citizens of the Thames-Sydenham and Region, the Thames-Sydenham Source Protection Committee, and local stakeholders. We acknowledge and recognize the tremendous efforts made by our local municipalities, stakeholders, and the Source Protection Committee in the development of the Source Protection Plans, implementation of Source Protection Plan policies, and development of this annual report.



II. A message from your local Source Protection Committee

Our progress score on achieving source protection plan objectives this reporting period:

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

- S : Satisfactory** – Some of the source protection plan policies have been implemented and/or are progressing.

- L : Limited progress** – A few of source protection plan policies have been implemented and/or are progressing.

Please check ONE of the three options above and explain how the source protection committee arrived at its opinion. *This response should be derived from the response in the Annual Progress Reporting Supplemental Form - ID#43a and ID#43b. (200 words)

III. Our Watershed

To learn more, please read our assessment report(s) and source protection plan(s).

The Thames-Sydenham and Region is made up of the watersheds of Lower Thames Valley, the St. Clair Region, and the Upper Thames River.

The Lower Thames Valley Source Protection Area includes those lands draining into the Thames River from the community of Delaware to Lake St. Clair. It also includes the lands that drain into Lake Erie lying south of the lower Thames River watershed and a small triangle of land north of the mouth of the Thames draining directly into Lake St. Clair. This area includes most of the municipality of Chatham-Kent, the western portion of Elgin County, part of southwestern Middlesex County (including some of the City of London) and a portion of eastern Essex County. The area covers approximately 3,274 square kilometres with a total watershed population (2001) of about 107,000.

The residents of the Lower Thames Valley Source Protection Area receive most of their municipal drinking water from Lake Erie through 3 intakes. The communities of Ridgetown and Highgate receive their drinking water from municipal wells. Some parts of the watershed within Essex County receive their municipal drinking water from intakes in Lake St. Clair. Although the drinking water for much of the population of the Lower Thames is supplied from municipal drinking water sources, some residents rely on water from municipal wells.

The St. Clair Region Source Protection Area includes the Sydenham River drainage basin and several smaller watersheds that drain to Lake Huron, the St. Clair River or Lake St. Clair. The Source Protection Area covers over 4,100 square kilometres and includes most of the County of Lambton, part of the Municipality of Chatham-Kent and part of the County of Middlesex with a total watershed population of 167,000.

The residents of the St. Clair Region Source Protection Area receive most of their municipal drinking water from Lake Huron and the St. Clair River through 3 intakes. Parts of Middlesex County receive their municipally supplied drinking water from an intake in Lake Huron outside the Source Protection Region. There are no longer any communities in the St. Clair Region that receive drinking water from municipal wells. Although the drinking water for much of the population of the Lower Thames is supplied from municipal drinking water sources, some residents rely on water from private wells.

The Upper Thames River Source Protection Area includes all areas draining into the Thames River above the community of Delaware. This covers large parts of Oxford, Perth and Middlesex Counties including most of the City of London. Very small portions of Huron and Elgin Counties also drain into the upper Thames River. The area covers approximately 3,423 square kilometres with a total watershed population (2001) of about 472,000. The residents of the Upper Thames River Source Protection Area receive their municipal drinking water from Lake Huron or Erie through 2 intakes in other Source Protection Areas. Many of the communities in Perth and Oxford Counties rely on groundwater for municipally supplied drinking water. Although the drinking water for much of the population of the Upper Thames is supplied from municipal drinking water sources, many rural residents rely on water from private wells.

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

1. Source Protection Plan Policies

P : Progressing Well/On Target

Many of the policies (84%) that address significant drinking water threats are either fully implemented or are in progress. In 2017, significant gains were made by Risk Management Officials, municipalities and Provincial Ministries to implement the policies that target activities that pose the greatest risk to sources of municipal drinking water.

2. Municipal Progress: Addressing Risks on the Ground

27 municipalities in our source protection region have vulnerable areas where significant drinking water threat policies apply.

P : Progressing Well/On Target - All of the municipalities (100%) in our source protection region have processes in place to ensure that their day-to-day planning and building permit decisions conform with our source protection plans.

Municipalities in our source protection region also are required to take the next step to review and update their Official Plan to ensure it conforms with the local source protection plans the next time they undertake an Official Plan review under the Planning Act. 22 municipalities have amended or are in the process of amending their Official Plan to conform with the source protection plans for our region.

3. Septic Inspections

P : Progressing Well/On Target

85% of on-site sewage systems have been inspected in accordance with the Ontario Building Code. Inspection results found the majority (88%) are functioning as designed and did not require any minor or major maintenance work.

4. Risk Management Plans

P : Progressing Well/On Target

In the previous calendar year, 30 risk management plans were established in our source protection region. Since our source protection plan took effect, a total of 41 risk management plans have been established.

296 inspections have been carried out or planned by a Risk Management Official/Inspector for prohibited or regulated activities. There is a 100% compliance rate with the risk management plans established in our source protection region.

5. Provincial Progress: Addressing Risks on the Ground

P : Progressing Well/On Target

Ontario ministries are reviewing previously issued 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 existing activities that pose a significant risk to sources of drinking water. The provincial approvals are being amended or revoked where necessary to conform with plan policies. Our policies set out a timeline of 5 years to complete the review and make any necessary changes. The ministries have completed this for 58% of previously issued provincial approvals in our source protection region.

6. Source Protection Awareness and Change in Behaviour

New, provincially standard road signs mark locations where well-used roads cross into zones where municipal drinking water sources are the most vulnerable to contamination. The road signs provide general public awareness about the sensitivity of the area, and will alert first responders of the need to quickly inform the appropriate authorities so action can be taken to keep contaminants out of the public water treatment and distribution system. A total of 115 Drinking Water Protection Zone signs have been installed on roadways in the Thames-Sydenham Source Protection Region.

7. Source Protection Plan Policies: Summary of Delays

Incentive programs are not being considered by most organizations in the Thames-Sydenham Region as suggested by Policy 1.04 of the Source Protection Plan. If Provincial funding support were made available to help offset the costs of an incentive programs, more organizations would be open to the consideration of an incentive program. It should be noted that this is a non-legally binding policy in the Source Protection Plan.

Discretionary Septic System Maintenance Inspections programs targeting moderate and low septic system threats have not yet been considered by municipalities in the Thames-Sydenham and Region. Discretionary inspections are recommended in policy 3.01, and as above, it should be noted that this is a non-legally binding policy. At this point in time, municipalities have been focusing on the mandatory septic inspections as required for septic systems that pose a significant threat to drinking water. More consideration will be given to discretionary inspections once the mandatory inspections are complete.

8. Source Water Quality: Monitoring and Actions

There are three drinking water quality issues that have been identified for drinking water systems in the Thames-Sydenham and Region. They include:

- Microcystin at the Wheatley and Chatham/South Kent Surface Water Intakes
- Nitrates at the Wallaceburg Surface Water Intake
- Nitrogen at the Woodstock Well System

Monitoring of these issues continues at all drinking water systems identified, but at this point in time there is not enough data/information available to determine changes in the concentration/trend of these issues.

Further monitoring is required and will continue.

9. Science-based Assessment Reports: Work Plans

No work plans were required to be implemented for our assessment reports.

10. More from the Watershed

To learn more about our source protection region/area, visit our Homepage.

<http://www.sourcewaterprotection.on.ca>

OPTIONAL CONTENT (not a regulatory requirement):

Is there anything else you would like to share regarding the implementation of your source protection plan(s)? You may also include photos. (150 words)

Ministry of Environment and Climate Change, Source Protection Program Branch

Annual Progress Reporting Supplemental Form for Source Protection

December 22, 2016

UPDATE #1: February 1, 2017 to clarify instructions and reportables

UPDATE #2: November 2017

Thames-Sydenham and Region – DRAFT March 2018

Annual Progress Reporting Supplemental Form for Source Protection

ACTION REQUIRED	Complete all applicable sections of this annual progress reporting supplemental form to report on progress made on the implementation of source protection plan (SPP) policies in your source protection region/area (SPR/A).			
PURPOSE	<p>This supplemental form provides a standardized approach for the sharing of critical information from the source protection authorities (SPA) on implementation progress. This form will be used to:</p> <ul style="list-style-type: none"> • Assess plan implementation to demonstrate progress made in protecting sources of drinking water; • Support a consistent assessment of implementation progress across the province through a predictable, consistent, and reliable manner; • Contribute to the Minister’s summary on progress made in source protection as required by subsection 46(7) of the <i>Clean Water Act</i> (CWA) and that is prepared by the ministry under the <i>Safe Drinking Water Act, 2002</i>; • Support the Ministry of Environment and Climate Change (MOECC)’s responses to requests for information from senior management, SPA, stakeholders, and members of the general public; • Corroborate the MOECC’s responses to any related program area audits; • Validate MOECC’s responses to the Environmental Commissioner of Ontario, as requested; and, • Provide general compliance oversight. 			
GUIDANCE	The document titled “Guidance and Rationale: Annual Progress Reporting Supplemental Form for Source Protection” has been created to complement this supplemental form. SPAs are encouraged to consult this guidance document which provides further direction on completing the reportables in this form as well as a rationale for each of the reportables.			
REPORTING PERIOD	Due to the staggered effective dates of the SPPs, the reporting period will vary. For those SPR/As submitting their first official annual progress report and supplemental form, the reporting period covers actions taken on SPP policies from the effective date of their SPP to December 31 st of the second calendar year following the year in which their SPPs take effect. For those SPR/As who are submitting their second or subsequent annual progress report and supplemental form, the reporting period is the previous calendar year unless otherwise indicated (i.e., when the information is requested on a cumulative basis).			
SUBMISSION DEADLINE	<p>Both the public-facing annual progress report template and annual progress reporting supplemental form will be due by May 1st of every year.</p> <p>This form is due by <u>May 1, 2018</u> from the following SPAs: Lakehead, Niagara, Mattagami, Mississippi-Rideau, Lake Erie-Kettle Creek, Lake Erie-Catfish Creek, Sudbury, Trent Conservation Coalition, Raisin-South Nation, Quinte, Cataraqui, Ausable Bayfield Maitland Valley, South Georgian Bay Lake Simcoe, North Bay Mattawa, Sault Ste. Marie, Essex, Credit River, Toronto and Region and Central Lake Ontario, Halton-Hamilton, and Thames Sydenham & Region.</p> <p>This form is due by <u>May 1, 2019</u> from the previously listed SPAs as well as from Saugeen Grey Sauble Northern Bruce Peninsula, Lake Erie – Long Point, and Lake Erie – Grand River.</p>			
QUESTIONS	<p>The completed supplemental form as well as any questions you may have on completing the form are to be submitted and directed to the following staff at the SPPB:</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;"> Neil Gervais, Senior Drinking Water Program Advisor neil.gervais@ontario.ca </td> <td style="width: 33%;"> Michael Halder, Research and Planning Analyst michael.halder@ontario.ca </td> <td style="width: 33%;"> Copy your Liaison Officer (Bilal Kidwai, Mary Wooding or Brian Wright) <i>and</i> send to source.protection@ontario.ca </td> </tr> </table>	Neil Gervais, Senior Drinking Water Program Advisor neil.gervais@ontario.ca	Michael Halder, Research and Planning Analyst michael.halder@ontario.ca	Copy your Liaison Officer (Bilal Kidwai, Mary Wooding or Brian Wright) <i>and</i> send to source.protection@ontario.ca
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Annual Progress Reporting Supplemental Form for Source Protection

SOURCE PROTECTION PLAN REGION/AREA	Thames-Sydenham Source Protection Region
REPORTING PERIOD	December 31, 2015 – December 31, 2017
DATE SUBMITTED (dd-mm-year)	DRAFT March 2018

Reportable theme	Who ¹ compiles this information?	ID	Reportables			Performance Measures			Outcomes ² (S, M, L)																		
			ID	Measure	Target/Trend	ID	Measure	Target/Trend																			
Monitoring Policy Implementation	SPA	1a	Did all implementing bodies (IBs) submit a status update/report to the SPA for the reporting periods noted below?			N/A	N/A	N/A	N/A																		
	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2" style="background-color: #d9ead3;">MONITORING POLICY REPORTING PERIOD</th> <th colspan="2" style="background-color: #d9ead3;">RESPONSE</th> <th rowspan="2" style="background-color: #d9ead3;">If no, how many implementing bodies did not submit their status updates?</th> </tr> <tr> <th style="background-color: #d9ead3;">Yes</th> <th style="background-color: #d9ead3;">No</th> </tr> </thead> <tbody> <tr> <td style="background-color: #d9ead3;">Year 1 (from effective date of SPP to December 31 of same year)³</td> <td style="background-color: #d9ead3;"><input checked="" type="checkbox"/></td> <td style="background-color: #d9ead3;"><input type="checkbox"/></td> <td style="background-color: #d9ead3;"></td> </tr> <tr> <td style="background-color: #d9ead3;">Year 2 (January 1 to December 31 of calendar year following Year 1)</td> <td style="background-color: #d9ead3;"><input checked="" type="checkbox"/></td> <td style="background-color: #d9ead3;"><input type="checkbox"/></td> <td style="background-color: #d9ead3;"></td> </tr> <tr> <td style="background-color: #d9ead3;">Year 3 (January 1 to December 31 of calendar year following Year 2)</td> <td style="background-color: #d9ead3;"><input type="checkbox"/></td> <td style="background-color: #d9ead3;"><input type="checkbox"/></td> <td style="background-color: #d9ead3;"></td> </tr> <tr> <td style="background-color: #d9ead3;">Year 4 (January 1 to December 31 of calendar year following Year 3)</td> <td style="background-color: #d9ead3;"><input type="checkbox"/></td> <td style="background-color: #d9ead3;"><input type="checkbox"/></td> <td style="background-color: #d9ead3;"></td> </tr> </tbody> </table>			MONITORING POLICY REPORTING PERIOD	RESPONSE		If no , how many implementing bodies did not submit their status updates?	Yes	No	Year 1 (from effective date of SPP to December 31 of same year) ³	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Year 2 (January 1 to December 31 of calendar year following Year 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Year 3 (January 1 to December 31 of calendar year following Year 2)	<input type="checkbox"/>	<input type="checkbox"/>		Year 4 (January 1 to December 31 of calendar year following Year 3)	<input type="checkbox"/>	<input type="checkbox"/>		Reporting Frequency: Ongoing (annually) or on an as needed basis	
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	SPA	1b	Complete the table below to indicate which implementing body(ies) did not submit a status update/monitoring policy report and the reason(s) for not submitting. Insert additional rows as needed.																								
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Implementation status ⁵ of SPP policies	SPA & SPPB	2a	Complete the tables below to indicate the implementation status of various policies in the SPP. NOTE: The percentages calculated and reported in tables 1 to 3 below should be cumulative percentages (i.e., status of policies since the SPP effective date). See Guidance for more details.			A	Percent of policies that address significant drinking water threats have been/are being implemented (Table 1).	100% of policies that address significant drinking water threats have been/are being implemented.	M (#5, #6) L (#10)																		
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¹ **NOTE:** The SPPB is sometimes listed in the second column to indicate where SPPB may facilitate the collection and sharing of information to the SPAs on the implementation of policies by provincial ministries.

² The anticipated outcomes are denoted with “S” for a short-term outcome, “M” for a medium-term outcome, and “L” for a long-term outcome. The letters S, M, L are followed by a number in brackets that corresponds with the specific program outcome described in the program outcomes document and displayed in the program logic model. Please refer to these documents for more information.

³ For CTC, Hamilton-Halton, and Thames Sydenham and Region, the Year 1 monitoring policy reporting period is from December 31, 2015 (i.e., the effective dates of these three SPPs) to December 31, 2016.

⁴ For CTC, Hamilton-Halton, and Thames Sydenham and Region, the Year 1 monitoring policy reporting period is from December 31, 2015 (i.e., the effective dates of these three SPPs) to December 31, 2016.

⁵ Please refer to the accompanying Guidance document for a detailed description of each of the implementation status categories as used in this form.

Reportable theme	Who ¹ compiles this information?	ID	Reportables			Performance Measures			Outcomes ² (S, M, L)																																								
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				C	For reporting by theme/other policies: Percent of other policies that have been/are being implemented (Table 3).	For reporting by theme/other policies: Increasing percent of other policies being implemented.																																											
Implementation status of SPP policies (as per O. Reg. 287/07, ss. 52(1), p. 1)	SPA & SPPB	2b	<p>Summarize the reasons for results recorded above as being "No progress made" and/or "No information available/no response received" by the dates specified in your source protection plan for significant drinking water threat activities (Table 1) and for any moderate/low threat policies that used prescribed instruments and <i>Planning Act</i> tools by completing the table below with the following details. Insert additional rows as needed.</p> <table border="1"> <thead> <tr> <th>Policy ID</th> <th>Implementing Body</th> <th>Explanation of why actions were not taken by the person(s) or body(ies)</th> <th>Outline next steps to support implementation</th> </tr> </thead> <tbody> <tr> <td>3.01</td> <td>Municipalities</td> <td>In the TSR, it has taken some time to initiate the mandatory septic inspections which are still in progress at current reporting time. More consideration may be given to discretionary inspections once mandatory inspections are complete</td> <td>Review policy as part of Section 36 work plan.</td> </tr> <tr> <td>1.04</td> <td>Organizations including but not limited to Municipalities and Conservation Authorities</td> <td>Incentive programs are not being considered by most organizations at this time. If Provincial funding support were made available for an incentive program, organizations may consider implementing this policy.</td> <td>Review policy as part of Section 36 work plan.</td> </tr> </tbody> </table> <p>Reporting Frequency: Ongoing (annually) or on as needed basis</p>	Policy ID	Implementing Body	Explanation of why actions were not taken by the person(s) or body(ies)	Outline next steps to support implementation	3.01	Municipalities	In the TSR, it has taken some time to initiate the mandatory septic inspections which are still in progress at current reporting time. More consideration may be given to discretionary inspections once mandatory inspections are complete	Review policy as part of Section 36 work plan.	1.04	Organizations including but not limited to Municipalities and Conservation Authorities	Incentive programs are not being considered by most organizations at this time. If Provincial funding support were made available for an incentive program, organizations may consider implementing this policy.	Review policy as part of Section 36 work plan.																																		
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				ID	Measure	Target/Trend							
Part IV (Section 57 – Prohibition, Section 58 - Risk Management Plan & Section 59 - Restricted Land Uses)	SPA	3a	<p>If applicable to the SPR/A, complete the table below for risk management plans (RMPs) established.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Total number of RMPs agreed to/established within the SPR/A since effective date of the SPP (i.e., cumulative total) (Column A)</th> <th>Number of RMPs agreed to or established within the SPR/A (for existing and future threats) during the reporting period (i.e., annual total) (Column B)</th> <th>Total number of properties (i.e., parcels) with RMPs agreed to or established since the effective date of the SPP (Column C)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">41</td> <td style="text-align: center;">35</td> <td style="text-align: center;">39</td> </tr> </tbody> </table> <p>Reporting Frequency: Ongoing (annually)</p>	Total number of RMPs agreed to/established within the SPR/A since effective date of the SPP (i.e., cumulative total) (Column A)	Number of RMPs agreed to or established within the SPR/A (for existing and future threats) during the reporting period (i.e., annual total) (Column B)	Total number of properties (i.e., parcels) with RMPs agreed to or established since the effective date of the SPP (Column C)	41	35	39	D	Total number of risk management plans established since the effective date of the SPP.	Increasing over time until all required activities have RMPs established.	S (#1, #2) M (#5, #6, #7) L (#9, #10)
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					E	Total number of properties that are subject to risk management plans since the effective date of the SPP.	All properties that are subject to section 58 have RMPs established.						
	SPA	3b	<p>How many existing* significant drinking water threats have been managed through the established RMPs since the plan took effect (i.e., the cumulative count)? <u>79</u> (* meaning engaged in OR enumerated as existing significant threats)</p> <p>NOTE: SPAs are asked to maintain a running tally of progress in addressing existing significant threats that were on the ground before plans were approved. The running tally consists of the formula: A+B-C-D. See corresponding reportable #39. See guidance document for additional details.</p> <ul style="list-style-type: none"> A = Original estimate of SDWT engaged in/enumerated when SPP approved B = Additional SDWT identified after first SPP approved as a result of field verification (i.e., <u>not</u> part of original estimate of SDWT) C = SDWT included in enumeration estimates at time of plan approval but subsequently determined through field verification that: (i) it 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 no longer applying pesticides for their own reasons) D = SDWT addressed because policy is implemented* (*Note: Where multiple policy tools address any given threat sub-category, implemented means that actions associated with at least one policy tool have been completed/are in place.) SPAs may use their local discretion in which policy tool they wish to reflect as being implemented. <p>Reporting Frequency: Ongoing (annually) or until such time all existing (enumerated) threats are managed according to plan policies</p>	N/A	No direct measure, but links with measure “O” associated with Implementation Status and Enumerated Threats: Percent of significant drinking water threats that existed in the area when the SPP was approved and that have been addressed (i.e., eliminated or managed).	N/A	N/A						
	SPA	4	<p>[OPTIONAL]: What gaps, if any, are risk management measures that are included in RMPs addressing as they relate to drinking water threat activities?</p> <p>RESPONSE: Spill and Emergency Response Plans developed; Employees trained on Spill and Emergency Response Plans; Personnel Training re: Source Water Protection; Documentation of regular inspections of all hazardous chemical and/or fuel storage areas; Secondary containment and spill kits to adequately and reasonably contain the volume of chemical on site at any time.</p> <p>Reporting Frequency: Ongoing (annually)</p>										
	SPA	5	<p>How many section 59 notices were issued in this reporting period for:</p> <p>(i) activities to which neither a prohibition (section 57) nor a RMP (section 58) policy applied, as per ss. 59(2)(a) of the CWA <u>59</u></p> <p>(ii) activities to which a RMP (section 58) policy applied, as per ss. 59(2)(b) of the CWA <u>9</u></p> <p>Reporting Frequency: Ongoing (annually)</p>										
	SPA	6	<p>For the purposes of section 61 of O. Reg. 287/07, how many notices and/or copies of prescribed instruments that state the prescribed instrument conforms with the significant drinking water threat policies in the SPP (i.e., statement of conformity confirms the instrument holder is exempt from requiring a RMP) did the RMO receive? <u>0</u></p>										

Reportable theme	Who ¹ compiles this information?	ID	Reportables	Performance Measures			Outcomes ² (S, M, L)
				ID	Measure	Target/Trend	
			Reporting Frequency: Ongoing (annually)				
			NOTE: The term <i>inspections</i> as used in the reportables below refer to those conducted as a site visit on a planned (i.e., proactive) and/or responsive (i.e., complaint-based) basis. This includes inspections carried out for threat verification purposes because the Risk Management Inspector (RMI) had reasonable grounds to <i>believe</i> that an activity that is being engaged in on a property may be subject to section 57 (i.e., including those that resulted in no activities found that were subject to section 57). The term <i>contravention</i> as used in the context of inspections refers to activities being undertaken that are in violation of sections 57 and 58 of the CWA relative to the timelines noted in the SPP.	F	Percent of inspections that show conformity with prohibition and risk management plan policies in an approved SPP.	Inspections show 100% conformity with prohibition and risk management plan policies over time.	S (#2) M (#5, #6) L (#9, #10)
	SPA	7a	(i) How many, if any, inspections (including any follow-up site visits) were carried out for activities (existing or future) that are prohibited under section 57 of the CWA? <u>26</u> (ii) How many properties (i.e., parcels) had inspections for the purposes of section 57? <u>21</u> Reporting Frequency: Ongoing (annually)				
	SPA	7b	Among these inspections, 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 CWA? <u>0</u> Reporting Frequency: Ongoing (annually)				
	SPA	8	How many <i>existing</i> significant drinking water threats have been prohibited as a result of section 57 prohibitions since the plan took effect (i.e., the cumulative count)? <u>0</u> Reporting Frequency: Ongoing (annually) or until such time all existing (enumerated) threats are prohibited according to plan policies				
	SPA	9a	(i) What is the total number of inspections (including any follow-up site visits) that were carried out for activities that require a RMP under section 58 of the CWA? <u>270</u> (ii) How many properties (i.e., parcels) had inspections for the purposes of section 58? <u>227</u> Reporting Frequency: Ongoing (annually)				
	SPA	9b	Among these inspections, (i) how many were in contravention with section 58 of the CWA (i.e., person engaging in a drinking water threat activity without a RMP as required by the SPP)? <u>0</u> (ii) how many were in non-compliance with the specific contents of the RMP? (Note: Please only include those inspections that showed non-compliance with measures/conditions to manage the actual threat activity.) <u>0</u> Reporting Frequency: Ongoing (annually)	G	Percent compliance with the contents of risk management plans.	100% compliance with RMPs established under section 58 of the CWA.	S (#2) M (#5, #6) L (#9, #10)
	SPA	9c	Where there were cases of non-compliance with RMPs, describe, in general terms, how these cases were resolved? If applicable, please also include the number of any notices and/or orders that may have been issued in the response. RESPONSE: N/A Reporting Frequency: Ongoing (annually)				

Reportable theme	Who ¹ compiles this information?	ID	Reportables	Performance Measures			Outcomes ² (S, M, L)
				ID	Measure	Target/Trend	
	SPA	10	<p>[OPTIONAL]: What new/additional knowledge (e.g., threats, transport pathways, abandoned wells, etc. and how they are managed), if any, did the lead SPA gain through communication with their RMO/RMIs, based on the RMO/RMI's work in the field?</p> <p>RESPONSE:</p>	N/A	No direct measure. However, this reportable may help to illustrate the value-added knowledge/benefit the RMOs bring to communities and SPAs through their day-to-day work.	N/A	N/A
Reporting Frequency: Ongoing (annually)							

NOTE: The reportables for Prescribed Instruments (PIs) applies to ministries responsible for issuing PIs under the following legislation: Environmental Protection Act (MOECC), Ontario Water Resources Act (MOECC), Pesticides Act (MOECC), Safe Drinking Water Act (MOECC), Nutrient Management Act (Ministry of Agriculture, Food and Rural Affairs (OMAFRA)), and Aggregate Resources Act (Ministry of Natural Resources (MNR) and Ministry of Transportation (MTO)). As such, responses to the reportables below on PI integration and conformity are to be provided by each ministry program area as indicated below.

Prescribed instruments - Integration and Conformity	SPPB	11	Indicate the specific measures that provincial ministries have taken/are taking to integrate source protection into the business processes of their respective program areas associated with PIs. See ministry PI electronic/paper reporting forms for responses.	PROVINCIAL MINISTRY PROGRAM AREAS										H	Number of applicable provincial ministry program areas integrating source protection considerations and/or use source protection science/information in their business or operational processes.	All applicable provincial ministry program areas integrating source protection considerations and/or use source protection science/information in their business or operational processes.	S (#1, #2) M (#4, #5, #6, #7) L (#8, #9, #10)
				BUSINESS PROCESSES	MOECC: Waste disposal – landfilling & storage	MOECC: Sewage Works/Wastewater	MOECC: Pesticides	MOECC: Water Takings	MOECC: Hauled sewage/biosolids	MOECC: Municipal water licences/works permits	OMAFRA: Nutrient Management	MNR: Aggregates – Fuel storage	MTO: Aggregates – Fuel storage				
<p>NOTE: Since the responses to reportables #11-#13, #15 and #18 are already provided through the provincial ministry electronic/paper reporting forms, there is no need for the SPA to reproduce the responses in this form. As such, these reportables have been shaded out. These reportables are being retained in the supplemental form for information purposes should SPAs wish to share this information with their respective SPC. In this case, SPAs may</p>			Relevant staff training on source protection related to PIs including inspections	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
			Guidance documents (e.g., standard operating policy/procedures) available to align with new program changes for source protection for reference by ministry staff	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
			Screening process in place to identify incoming PI applications potentially affected by SPP policies	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
			Information or other support tools created and/or made available to external stakeholders (i.e. applicants) to inform them that restrictions may result from source protection policies, so that potential impacts can be considered in advance of making an application	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
			System in place to track the PIs that are subject to SPP policies	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
			Process in place to map or otherwise geo-reference PIs that are subject to PI policies	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
			Protocol in place to review previously issued (i.e., existing) PIs potentially affected by SPP policies	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
			Other changes made to business processes. Provide a brief description below.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
			No changes made. If no changes made to business processes to integrate source protection, please explain the reason(s) below.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

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choose to provide a summary of the responses.			Reporting Frequency: One-time (but may be needed again if and when further changes are made to business processes to integrate source protection)																													
	SPPB	12	<p>Provide a brief description of each provincial ministry's process for ensuring PI decisions for incoming PI applications (new or amendments) conform with the significant drinking water threat PI policies applicable to each SPR/A (i.e., a description of the screening process in place) in the table below.</p> <table border="1"> <thead> <tr> <th>MINISTRY PROGRAM AREA</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>MOECC: Waste Disposal Sites – landfilling and storage</td> <td rowspan="9">Applications for all Ministries are now being screened to determine if significant drinking water threat activities are being proposed or altered. Methods for screening vary between Ministries and program branches.</td> </tr> <tr> <td>MOECC: Sewage works/wastewater</td> </tr> <tr> <td>MOECC: Pesticides</td> </tr> <tr> <td>MOECC: Water Taking</td> </tr> <tr> <td>MOECC: Hauled sewage/biosolids</td> </tr> <tr> <td>MOECC: Municipal drinking water licences/works permits (Fuel storage)</td> </tr> <tr> <td>OMAFRA: Nutrient Management</td> </tr> <tr> <td>MNRF: Aggregates (Fuel storage)</td> </tr> <tr> <td>MTO: Aggregates -road construction (Fuel storage)</td> </tr> </tbody> </table> <p>Reporting Frequency: One-time</p>	MINISTRY PROGRAM AREA	DESCRIPTION	MOECC: Waste Disposal Sites – landfilling and storage	Applications for all Ministries are now being screened to determine if significant drinking water threat activities are being proposed or altered. Methods for screening vary between Ministries and program branches.	MOECC: Sewage works/wastewater	MOECC: Pesticides	MOECC: Water Taking	MOECC: Hauled sewage/biosolids	MOECC: Municipal drinking water licences/works permits (Fuel storage)	OMAFRA: Nutrient Management	MNRF: Aggregates (Fuel storage)	MTO: Aggregates -road construction (Fuel storage)																	
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SPPB	14	<p>Complete the tables below to assist with tracking decisions made on incoming PI applications (new and amendments) for significant drinking water threat activities indicated. The tables below can be completed by the data provided by the applicable ministries through their respective PI electronic/paper reporting forms. The data in the tables are the annual counts of actions taken on incoming applications (i.e., not the cumulative count).</p> <table border="1"> <thead> <tr> <th rowspan="2">Agency</th> <th rowspan="2">Number of applications that underwent detailed review for source protection</th> <th colspan="2">ACTIONS TAKEN ON PIs</th> </tr> <tr> <th>Number of PIs issued where SDWT is managed through conditions</th> <th>Number of PIs refused because SDWT is prohibited</th> </tr> </thead> <tbody> <tr> <td>MOECC: Waste Disposal Site – Landfilling and storage</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>MOECC: Sewage works/wastewater</td> <td>3</td> <td>0</td> <td>0</td> </tr> <tr> <td>MOECC: Pesticides</td> <td>1</td> <td>0</td> <td>0</td> </tr> <tr> <td>MOECC: Hauled Sewage</td> <td>2</td> <td>0</td> <td>0</td> </tr> <tr> <td>MOECC: Biosolids (Processed Organic Waste)</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Agency	Number of applications that underwent detailed review for source protection	ACTIONS TAKEN ON PIs		Number of PIs issued where SDWT is managed through conditions	Number of PIs refused because SDWT is prohibited	MOECC: Waste Disposal Site – Landfilling and storage	0	0	0	MOECC: Sewage works/wastewater	3	0	0	MOECC: Pesticides	1	0	0	MOECC: Hauled Sewage	2	0	0	MOECC: Biosolids (Processed Organic Waste)	0	0	0	N/A	N/A	N/A	N/A
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			OMAFRA: Nutrient Management Strategies (NMS)	1	1	0																				
			OMAFRA: Non-Agricultural Source Material (NASM) Plans	1	1	0																				
			MNRF: Aggregates (Fuel storage) – Site Plans/Aggregate Licenses (AL)	0	0	0																				
			MNRF: Aggregates (Fuel storage) – Site Plans/Aggregate Permits (AP)	0	0	0																				
			MNRF: Aggregates (Fuel storage) – Site Plans/Wayside Permits (WP)	0	0	0																				
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			<p align="center">OMAFRA: Nutrient Management Plans (NMPs)</p> <p>Since NMPs are issued and reviewed by the PI holders themselves and not by OMAFRA, actions taken on incoming NMPs are not tracked and reported separately. See reportable #18 below or OMAFRA's PI annual reporting form for more details.</p>																							
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			<p>MOECC: Pesticides</p> <p>NOTE: Since pesticide permits are issued on a seasonal basis, all previously issued permits expire. Where incoming applications seek renewal, detailed screening of the application occurs and the applicable PI policies applied. Consequently, actions taken on previously issued permits are not being tracked and reported separately.</p>																										
			<p>MOECC: Hauled sewage/biosolids Sites</p> <p>NOTE 1: <i>Environmental Protection Act</i> approvals for the land application of processed organic waste on agricultural land were transferred to the <i>Nutrient Management Act</i>. All previous approvals ceased to apply on their expiry date or up to January 1, 2016. As a result, actions taken on these previously issued approvals are not being tracked and reported separately.</p> <p>NOTE 2: Previously issued PIs for hauled sewage disposal sites and land application of processed organic waste (biosolids) on non-agricultural land expire every few years. Whenever incoming applications are received to renew these sites, detailed screening of the application occurs and the applicable PI policies applied. As a result, actions taken on previously issued hauled sewage and biosolids spreading site approvals are not being tracked and reported separately.</p>																										
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	SPPB	17	<p>For the purposes of section 61 of O. Reg. 287/07 (exemption from RMP policy), complete the table below to indicate the number of notices or PIs issued by the applicable provincial ministries that state the PI conforms to the significant drinking water threat policies in the SPP (i.e., statement of conformity confirms the instrument holder is exempt from requiring a Risk Management Plan). Also, state the prescribed drinking water threat activity to which the statements of conformity pertain. (NOTE: <i>May apply to instruments under the Safe Drinking Water Act, Pesticides Act, Nutrient Management Act or Aggregate Resources Act</i>).</p> <table border="1"> <thead> <tr> <th>Number of notices or PI issued</th> <th>Applicable prescribed drinking water threat activity</th> </tr> </thead> <tbody> <tr> <td colspan="2">MOECC: PIs issued under the <i>Safe Drinking Water Act</i></td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td colspan="2">Comments:</td> </tr> <tr> <td colspan="2">MOECC: PIs issued under the <i>Pesticides Act</i></td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td colspan="2">Comments:</td> </tr> </tbody> </table>									Number of notices or PI issued	Applicable prescribed drinking water threat activity	MOECC: PIs issued under the <i>Safe Drinking Water Act</i>		0		Comments:		MOECC: PIs issued under the <i>Pesticides Act</i>		0		Comments:		N/A	N/A	N/A	N/A
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			NOTE: Reportable #18 is greyed out to indicate that it is not required to be filled out. Responses can be found in OMAFRA's PI reporting form.																	
	SPPB	18	<p>In situations where a provincial ministry does not issue or create the prescribed instrument, briefly describe what is being done by the ministry to ensure the PI conforms with the significant threat policies that use the PI tool. (NOTE: <i>Applicable to only certain OMAFRA instruments issued under the Nutrient Management Act.</i>)</p> <p>RESPONSE: Guidance is currently being developed by OMAFRA for RMOs, farmers and certified individuals that prepare NMPs to use to help determine if a PI conforms to the SDWT policies. MOECC inspectors of ASM and NASM sites, hauled sewage sites, or processed organic waste (aka biosolids) sites, assess compliance with the terms/conditions within the applicable PI associated with the operation as well as other applicable regulatory requirements made under the Nutrient Management Act, Environmental Protection Act, Ontario Water Resources Act or other legislation. In the event any terms or conditions are contained in an instrument to address Source Protection policy requirements, compliance with those terms/conditions is addressed as part of the regular inspection activities.</p>																	
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NOTE: The responses to the group of reportables below on inspections and compliance are to be provided by ministries responsible for their respective program areas (i.e., waste disposal sites, sewage works/wastewater, pesticides, water taking, aggregates – fuel storage, nutrient management, water works permitting, and drinking water municipal licences) affected by PI policies. The term inspections as used in the following reportables refer to those conducted on a planned (i.e., proactive) and/or responsive (i.e., complaint-based) basis.																				
Prescribed Instruments – Inspections and Compliance NOTE: Reportables #19-#21 are shaded in grey as they are not required to be completed by the SPA. Instead, the responses are available in the ministry reporting templates. These reportables are retained in the supplemental form for reference and reporting purposes for SPAs wishing to share this information with	SPPB	19	<p>Briefly describe how provincial ministry staff involved in inspections related to PIs have been trained in source protection for each of the program areas in the table below.</p> <table border="1"> <thead> <tr> <th>MINISTRY PROGRAM AREA</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>MOECC: Waste Disposal Sites – landfilling and storage</td> <td rowspan="8">Overall, general source protection training sessions have been made available to all Provincial inspectors on the fundamentals of the Clean Water Act as well as Source Protection implementation activities undertaken by the Ministry; however, completion of this training is not always mandatory. Most programs require NEW inspectors to complete general Source Protection training.</td> </tr> <tr> <td>MOECC: Sewage works/wastewater</td> </tr> <tr> <td>MOECC: Pesticides</td> </tr> <tr> <td>MOECC: Water Taking</td> </tr> <tr> <td>MOECC: Hauled sewage/biosolids and ASM/NASM inspections</td> </tr> <tr> <td>MOECC: Municipal drinking water licences/works permits</td> </tr> <tr> <td>OMAFRA: Nutrient Management</td> </tr> <tr> <td>MNRF: Aggregates (Fuel storage)</td> </tr> <tr> <td>MTO: Aggregates – road construction (Fuel storage)</td> </tr> </tbody> </table>		MINISTRY PROGRAM AREA	DESCRIPTION	MOECC: Waste Disposal Sites – landfilling and storage	Overall, general source protection training sessions have been made available to all Provincial inspectors on the fundamentals of the Clean Water Act as well as Source Protection implementation activities undertaken by the Ministry; however, completion of this training is not always mandatory. Most programs require NEW inspectors to complete general Source Protection training.	MOECC: Sewage works/wastewater	MOECC: Pesticides	MOECC: Water Taking	MOECC: Hauled sewage/biosolids and ASM/NASM inspections	MOECC: Municipal drinking water licences/works permits	OMAFRA: Nutrient Management	MNRF: Aggregates (Fuel storage)	MTO: Aggregates – road construction (Fuel storage)	J	Percentage of relevant ministry program areas with PIs that incorporate source protection considerations into their respective inspection priorities.	All relevant PI provincial ministry program areas incorporate source protection considerations into how they prioritize and carry out inspections of prescribed instruments.	S (#1, #2) M (#5, #7) L (#8, #9, #10)
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Land Use Planning (LUP) NOTE: Reportables #22a-b are shaded in grey as they are not required to be completed by the SPA. Instead, the responses to these reportables are found in the MMA electronic/paper reporting form. These reportables are retained in the supplemental form for reference and reporting purposes for SPAs wishing to share this information with their respective SPCs. Where this is the case, SPAs may need to provide an	SPPB	22a	<p>Where the Ministry of Municipal Affairs (MMA) is the planning approval authority for day-to-day <i>Planning Act</i> decisions within source protection areas, or where MMA is the approval authority for the official plan and zoning by law conformity exercises municipalities are required to undertake, please provide a description of how MMA ensures their <i>Planning Act</i> decisions conform with the approved source protection plans (specifically, the policies on List A - Significant threat policies that affect decisions under the <i>Planning Act</i> and <i>Condominium Act</i>, 1998)?</p> <p>RESPONSE: Through the review and approval of Official Plans, MMA, in consultation with MOECC, ensures Official Plan policies conform to the significant drinking water threat policies and have regard to other policies. In addition, MMA ensures designated vulnerable areas, as identified in approved assessment reports are identified in Official Plan schedules are protected, improved or restored as is required to be consistent with the Provincial Policy Statement.</p>			H	See measure “H”	Same target/trend as measure “H”.	S (#1, #2) M (#4, #5, #6, #7) L (#10)											
	SPPB	22b	<p>In what other ways does MMA integrate source protection considerations into their business or operational processes? Please provide a brief description of each.</p> <p>RESPONSE: MMA takes source protection into consideration in its review of new planning documents (official plans, comprehensive zoning bylaws) and development applications as applicable.</p>																	
	Reporting Frequency: One-time																			
	SPA	23a	<p>In total, how many municipalities (including upper-, lower-, and single-tier) within the SPR/A are required to complete:</p> <p>Official Plan (OP) conformity exercises for source protection? <u>18</u> Zoning by-law (ZBL) conformity exercises for source protection? <u>22</u></p> <p>*NOTE: Applies to every municipality affected by land use planning or Part IV type policies.</p>			K	Percent of municipalities that are subject to significant drinking water threat policies have incorporated source protection into their planning documents.	100% of municipalities that are subject to significant drinking water threat policies have incorporated source protection into	S (#1, #2) M (#4, #5, #6, #7) L (#10)											
Reporting Frequency: One-time																				
	SPA	23b	<p>Of these municipalities, how many have:</p> <p>(i) Completed their OP conformity exercise <u>5</u></p>																	

Reportable theme	Who ¹ compiles this information?	ID	Reportables	Performance Measures			Outcomes ² (S, M, L)
				ID	Measure	Target/Trend	
overall summary.			(ii) Completed their ZBL conformity exercises <u>1</u> (iii) Completed OP conformity exercise but under appeal <u>1</u> (iv) Completed ZBL conformity exercise but under appeal <u>0</u> (v) OP conformity exercise in process <u>11</u> (vi) ZBL conformity exercise in process <u>11</u> (vii) Not started their OP conformity exercise <u>1</u> (viii) Not started their ZBL conformity exercise <u>10</u> Reporting Frequency: Ongoing (annually) or until such time all applicable municipalities have completed their conformity exercise			their planning documents.	
Education & Outreach (E&O) <i>(NOTE: Do not count signage policies as part of this reportable as there is a separate reportable for signage policies below.)</i>	SPA & SPPB	24a	(i) What method(s) are being used to implement E&O policies in the SPR/A? Choose all that apply. <input checked="" type="checkbox"/> development and distribution of educational materials for general public <input checked="" type="checkbox"/> development and distribution of educational materials for target audiences including developers, builders, landowners, farmers, etc. <input type="checkbox"/> in-person workshops <input checked="" type="checkbox"/> site visits <input checked="" type="checkbox"/> source protection content for websites <input checked="" type="checkbox"/> educational videos (e.g., YouTube) <input type="checkbox"/> podcasts <input checked="" type="checkbox"/> collaboration with other bodies (e.g., ministries, local organizations, etc.) <input type="checkbox"/> other. Please specify _____ <input checked="" type="checkbox"/> methods for implementing E&O not yet determined (ii) Identify the ways in which outreach efforts were conducted to reach target audiences about source water protection? Choose all that apply. <input checked="" type="checkbox"/> social media promotion (e.g., use of Facebook, Twitter, Instagram, etc.) <input checked="" type="checkbox"/> traditional media advertising (e.g., print media, radio, television) <input checked="" type="checkbox"/> site visits <input checked="" type="checkbox"/> integration with other outreach programs or campaigns (e.g., Community Environment Days, etc.) <input checked="" type="checkbox"/> articles in publications <input checked="" type="checkbox"/> information kiosks at events/festivals <input checked="" type="checkbox"/> other. Please specify: Door hanger/flyer campaign completed for 6 municipalities targeting residential quantities of DNAPLs. Emergency Planning Training Exercise for the City of Sarnia provided source protection outreach to emergency responders and drinking water system operators. Reporting Frequency: First 3-5 years of reporting	N/A	N/A	N/A	N/A
	SPA & SPPB	24b	(i) Describe how the SPA is evaluating the implementation of its E&O policies? RESPONSE: No formal evaluation criteria have been set. Some local efforts are being made to track the uptake and success of certain targeted education efforts (e.g. website traffic, surveys, etc.) (ii) What are the results of that evaluation? If possible, in the description of results, please indicate if the E&O policies resulted in gains in source protection knowledge and any commitments made to change behaviour that is protective of source water. RESPONSE: Given the broad and general nature of the education and outreach policies in the Thames-Sydenham & Region SPP, it is difficult to build an evaluation tool that can determine the success of E&O policies at a regional-scale level, since the implementation of E&O policies varies greatly across the Region. As noted above, some local efforts have been made to evaluate the success of targeted outreach efforts with				

Reportable theme	Who ¹ compiles this information?	ID	Reportables	Performance Measures			Outcomes ² (S, M, L)
				ID	Measure	Target/Trend	
			<p>varying levels of success. In some cases it was determined that the education efforts had been very worthwhile (e.g. through survey responses), while some evaluation tools such as website traffic after the completion of flyer deliveries showed minimal uptake of outreach efforts.</p> <p>Reporting Frequency: First 3-5 years of reporting</p>				
	SPA & SPPB	25	<p>What did the E&O policy(ies) that were implemented target in the SPR/A? Please select all that apply from the list below.</p> <p><input checked="" type="checkbox"/> Threats (significant) <input checked="" type="checkbox"/> Threats (moderate-low) <input checked="" type="checkbox"/> Transport pathways <input checked="" type="checkbox"/> Spills prevention/spill events <input type="checkbox"/> Drinking water issues <input type="checkbox"/> Conditions <input checked="" type="checkbox"/> Local threat <input checked="" type="checkbox"/> Other. Please specify: General knowledge of SWP and what it means to the general public. In the City of London, general water stewardship outreach was targeted to a general audience.</p> <p>Reporting Frequency: First 3-5 years of reporting</p>				
	SPA & SPPB	26	<p>[OPTIONAL: If and where there are E&O initiatives that were particularly successful that the SP Authority wishes to highlight in the supplemental annual progress reporting form, include its details here. Please limit the description to only those known E&O initiatives the SPA feels were exceptional/quite successful.]</p> <p>Provide a brief description of a successful E&O initiative that has had or is having a positive impact below. In the description, where available, include the following details:</p> <ul style="list-style-type: none"> • Indicate target population (e.g., farmers, business, residents, municipalities, etc.) • Percentage of the target audience reached • Outcomes that were achieved • Whether these initiatives reached persons and/or businesses within geographic areas where threats could be significant or to wider areas (i.e., specific to areas with significant drinking water threats or general E/O) <p>RESPONSE: In the City of Sarnia, an emergency planning training day - involving 30+ people was very successful. The group was divided into two groups. Each group was given a spills scenario to respond to and they discussed how the drinking water supplies would be protected at the time of a major chemical spill. This was the first exercise that involved threats to drinking water supplies, municipal systems, and distribution systems.</p> <p>Reporting Frequency: Ongoing (annually)</p>				
Signage	SPA & SPPB	27	<p>Complete the table below to indicate the number of source water protection signs that have been installed in the SPR/A for the reporting periods noted.</p>	L	Total number of source water protection signs installed within 5-10 years of plan	Increasing number of source protection signs installed in the	S (#1, #2) M (#3, #4, #6) L (#8, #9, #10)

Reportable theme	Who ¹ compiles this information?	ID	Reportables			Performance Measures			Outcomes ² (S, M, L)										
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			<p><i>exceptional /quite successful.]</i></p> <p>Provide a brief description of incentives that have had or are having a positive impact below. In the description include:</p> <ul style="list-style-type: none"> • Outcomes achieved • How widely available was the incentive? • Whether incentives reached persons and/or businesses within geographic areas where threats could be significant or to wider areas <p>RESPONSE:</p> <p>Reporting Frequency: Annually or when warranted</p>																
Sewage System Inspections – Ontario Building Code (OBC)	SPA	30a	<p>How many on-site sewage systems in the SPA require inspections in accordance with the Ontario Building Code (OBC) (i.e., once every five years)? <u>200</u></p> <p>Reporting Frequency: Annual</p>			M	Percentage of on-site sewage systems that are inspected as part of the mandatory septic inspections program where they are a significant threat.	100% of on-site sewage systems where they are a significant threat are inspected once every 5 years.	S (#2) M (#5, #6) L (#9, #10)										
	SPA	30b	<p>Of these, how many on-site sewage systems were inspected (i.e., cumulative running tally of systems inspected)? <u>170</u></p> <p>Reporting Frequency: Ongoing (annually)</p>																
	SPA	30c	<p>How many of the on-site sewage systems inspected required:</p> <ul style="list-style-type: none"> • minor maintenance work (e.g., pump out, etc.)? <u>20</u> • major maintenance work (e.g., tank replacement, etc.)? <u>1</u> <p>Reporting Frequency: Ongoing (annually)</p>																
Environmental monitoring for drinking water issues	SPA	31	<p>If applicable to the SPR/A, complete the table below where information about drinking water issues is available. Begin by identifying the drinking water system(s) and any associated drinking water issue(s)/parameter(s) (chemical or pathogen) that have been identified, then indicate whether an Issue Contributing Area (ICA) was delineated for the identified issue(s), and any observations in the concentration or trend for each issue. Optional: Describe the actions/behavioural changes in the ICA that might be contributing to the changes. Insert additional rows as necessary in the table below for each drinking water system. Municipalities and SPAs may use data from the Drinking Water Surveillance Program to help inform the response to this reportable.</p> <table border="1"> <thead> <tr> <th>Drinking Water System (Column A)</th> <th>Drinking Water Issue/Parameter (Column B)</th> <th>ICA delineated for this issue? (Yes/No) (Column C)</th> <th>Observations (Column D)</th> <th>Actions/Behavioural Changes Contributing to Change in Observations (Optional) (Column E)</th> </tr> </thead> <tbody> <tr> <td>Wheatley and Chatham/South Kent Surface Water Intakes</td> <td>Microcystin</td> <td>No</td> <td> <input type="checkbox"/> Increasing concentration/trend <input type="checkbox"/> Decreasing concentration/trend <input type="checkbox"/> No change in concentration/trend <input checked="" type="checkbox"/> Not enough data/information is available to determine changes in concentration/trend <input type="checkbox"/> No longer monitoring issue/parameter as not an issue </td> <td>The primary mechanism through which the TSR has been working on the Microcystin Issue is through the Thames River Clear Water Revival (TRCWR). This collaborative includes federal, provincial, CA, First Nation and City of London representation with an overall goal of improving the health of the Thames River and a short term goal of creating a Water Management Plan for the river. The first significant product from the TRCWR was the study entitled Water Quality Assessment in the Thames River Watershed – Nutrient and Sediment Sources completed by Freshwater</td> </tr> </tbody> </table>			Drinking Water System (Column A)	Drinking Water Issue/Parameter (Column B)	ICA delineated for this issue? (Yes/No) (Column C)	Observations (Column D)	Actions/Behavioural Changes Contributing to Change in Observations (Optional) (Column E)	Wheatley and Chatham/South Kent Surface Water Intakes	Microcystin	No	<input type="checkbox"/> Increasing concentration/trend <input type="checkbox"/> Decreasing concentration/trend <input type="checkbox"/> No change in concentration/trend <input checked="" type="checkbox"/> Not enough data/information is available to determine changes in concentration/trend <input type="checkbox"/> No longer monitoring issue/parameter as not an issue	The primary mechanism through which the TSR has been working on the Microcystin Issue is through the Thames River Clear Water Revival (TRCWR). This collaborative includes federal, provincial, CA, First Nation and City of London representation with an overall goal of improving the health of the Thames River and a short term goal of creating a Water Management Plan for the river. The first significant product from the TRCWR was the study entitled Water Quality Assessment in the Thames River Watershed – Nutrient and Sediment Sources completed by Freshwater	N	Number of identified issues showing improvements in its concentration(s) and/or trend(s).	Improvements over time in the concentration or loadings of contaminant(s)/issue(s) of concern in sources of drinking water.	S (#1, #2) M (#4, #5, #6, #7) L (#10)
Drinking Water System (Column A)	Drinking Water Issue/Parameter (Column B)	ICA delineated for this issue? (Yes/No) (Column C)	Observations (Column D)	Actions/Behavioural Changes Contributing to Change in Observations (Optional) (Column E)															
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Reportable theme	Who ¹ compiles this information?	ID	Reportables				Performance Measures			Outcomes ² (S, M, L)	
							ID	Measure	Target/Trend		
			Wallaceburg Surface Water Intake	Nitrate	No	<input type="checkbox"/> Increasing concentration/trend <input type="checkbox"/> Decreasing concentration/trend <input type="checkbox"/> No change in concentration/trend <input checked="" type="checkbox"/> Not enough data/information is available to determine changes in concentration/trend <input type="checkbox"/> No longer monitoring issue/parameter as not an issue	Research using a grant from MOECC Showcasing Water Innovation fund. This study quantified phosphorous loadings from the Thames River. One significant finding from the study was the variability from year to year in phosphorous loadings. During a wet year with significant rainfall, the Thames River can contribute over 4 times as much phosphorus to the lake as it would in a dry year.				
			Woodstock	Nitrogen	Yes	<input type="checkbox"/> Increasing concentration/trend <input type="checkbox"/> Decreasing concentration/trend <input type="checkbox"/> No change in concentration/trend <input checked="" type="checkbox"/> Not enough data/information is available to determine changes in concentration/trend <input type="checkbox"/> No longer monitoring issue/parameter as not an issue	Monitoring completed over the past 2 years has not yielded enough information to confirm the issue and delineate an ICA. In October 2017, the SPC directed staff to continue monitoring the issue and expand the monitoring locations.				
			Reporting Frequency: Ongoing (annually)								
Transport pathways	SPA	32a	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 SPA receive from municipalities in this reporting period (as per O. Reg. 287/07, ss. 27(3))? <u> 0 </u>				N/A	N/A	N/A	N/A	N/A
			Reporting Frequency: Ongoing (annually)								
	SPA	32b	What actions did the SPR/A take as a response to receiving these notices (e.g., SPR/A provided information to municipalities about changes in vulnerability, etc.)? Please describe below. RESPONSE: N/A								
			Reporting Frequency: Ongoing (annually)								
	SPA	33	[OPTIONAL]: Provide specific information on actions taken by any person or body to reduce the impacts that transport pathways could have on sources of drinking water (e.g., number of wells properly abandoned by municipalities and/or private landowners in accordance with O. Reg. 903, etc.)? RESPONSE: The City of London is in year 3 of implementing a multi-year plan to decommission all known wells that have been identified in the city. These include former PUC production wells, geotechnical test wells and any private residential wells that have come under the ownership of the municipality (e.g. heritage properties).								

Reportable theme	Who ¹ compiles this information?	ID	Reportables	Performance Measures			Outcomes ² (S, M, L)																								
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			<p>The City of Stratford has a Water Use By-law which states the requirements for properly abandoning wells within the city limits. Other by-laws define time periods for when wells must be abandoned if municipal water supplies exist.</p> <p>In the Town of St. Marys, when the municipal service area is extended to pick up more properties, the existing services (i.e. septic / wells) are abandoned accordingly.</p> <p>In St. Clair Township there is policy in place to direct the day to day work flow to ensure transport pathways are incorporated through a source water lens.</p> <p>The official plan in the City of Sarnia contains a policy requiring that unused water wells be decommissioned at the time of planning approvals. Over the past few years, a few wells have been decommissioned in accordance with this policy for the purpose of protecting ground water. As part of development applications, staff refer to the Ontario Well Records Map to see if there might be records of old wells that may require decommissioning. This requirement would only be considered at the time of a Planning Application.</p> <p>In the Municipality of Chatham-Kent, the Highgate/Ridgetown Water Treatment Plant is one of the Clean Water and Wastewater Fund Projects (CWWF) Projects within Chatham-Kent. This is new water treatment facility to treat ground water produced from the recently constructed Scane and Colby wells in Ridgetown. The project would provide over 9 km long 200 mm watermain from Ridgetown to Highgate, a 320 m³ ground water storage tank and a new booster pumping station at Highgate. This improvement addresses water quality and quantity issues for Highgate by providing a new water supply to the Highgate service area. The timeline for this project is July 2017 to January 2018. As part of this project, the Highgate Well System will be decommissioned in 2018.</p> <p>Reporting Frequency: Annually or when warranted</p>																												
Positive impact examples for each of the following policy tools or topics (e.g., road salt management, transport pathways, spills response, water quantity, Great Lakes, any "other" policy)	SPA & SPPB	34	<p>[OPTIONAL: If and where there are successful examples for each of the following initiatives in the SPR/A that the authority wishes to highlight, include its details in the table below. Please limit the descriptions provided (e.g., one example for each topic or more could be included when the SPA feels they are exceptional/quite successful).]</p> <table border="1"> <thead> <tr> <th>Policy Tools/Topics</th> <th>Description of Successful Initiatives</th> </tr> </thead> <tbody> <tr> <td>Stewardship Programs</td> <td></td> </tr> <tr> <td>Best Management Practices</td> <td></td> </tr> <tr> <td>Pilot Programs</td> <td></td> </tr> <tr> <td>Research</td> <td></td> </tr> <tr> <td>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.)</td> <td></td> </tr> <tr> <td>Climate Change (e.g., data collection)</td> <td></td> </tr> <tr> <td>Spill prevention/spill contingency/emergency response plan updates</td> <td></td> </tr> <tr> <td>Transport pathways</td> <td></td> </tr> <tr> <td>Water quantity</td> <td></td> </tr> <tr> <td>Great Lakes</td> <td></td> </tr> <tr> <td>Other policies (i.e., strategic action, etc.)</td> <td></td> </tr> </tbody> </table> <p>Reporting Frequency: Annually or when warranted</p>	Policy Tools/Topics	Description of Successful Initiatives	Stewardship Programs		Best Management Practices		Pilot Programs		Research		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.)		Climate Change (e.g., data collection)		Spill prevention/spill contingency/emergency response plan updates		Transport pathways		Water quantity		Great Lakes		Other policies (i.e., strategic action, etc.)		N/A	No measure. Could use in public reporting vignettes to highlight successful initiatives.	N/A	N/A
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Municipal integration of source protection	SPA	35a	<p>In total, how many municipalities (including upper-, lower-, and single-tier) within the SPR/A are subject to SPP policies (any policy tool)? <u>27</u></p> <p>Reporting Frequency: One-time</p>	N/A	N/A	N/A	N/A																								

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	SPA	35b	<p>Complete the table below by indicating the number of municipalities (including upper-, lower-, and single-tier) within the SPR/A that have integrated/are integrating⁷ source protection knowledge/science into the following municipal program areas/activities.</p> <table border="1"> <thead> <tr> <th>Municipal Program Areas/Activities</th> <th>Number of municipalities that have integrated/are integrating source into program areas/activities</th> </tr> </thead> <tbody> <tr> <td>Road salt storage/application</td> <td>6</td> </tr> <tr> <td>Snow storage</td> <td>4</td> </tr> <tr> <td>Pesticide storage/application</td> <td>4</td> </tr> <tr> <td>Hazardous waste storage</td> <td>4</td> </tr> <tr> <td>Organic solvents storage</td> <td>3</td> </tr> <tr> <td>Municipal fuel storage (e.g., for heating, maintenance vehicles, etc.)</td> <td>9</td> </tr> <tr> <td>Municipal well maintenance and operations</td> <td>8</td> </tr> <tr> <td>Municipal water quantity</td> <td>7</td> </tr> <tr> <td>Stormwater infrastructure maintenance</td> <td>3</td> </tr> <tr> <td>Other. Please provide a description below.</td> <td>1 (fertilizer storage)</td> </tr> </tbody> </table> <p>Reporting Frequency: Annually or when warranted</p>	Municipal Program Areas/Activities	Number of municipalities that have integrated/are integrating source into program areas/activities	Road salt storage/application	6	Snow storage	4	Pesticide storage/application	4	Hazardous waste storage	4	Organic solvents storage	3	Municipal fuel storage (e.g., for heating, maintenance vehicles, etc.)	9	Municipal well maintenance and operations	8	Municipal water quantity	7	Stormwater infrastructure maintenance	3	Other. Please provide a description below.	1 (fertilizer storage)			
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	SPA	36a	<p>Of the total number of municipalities within the SPR/A that are subject to SPP policies and have a legal responsibility for day-to-day land use planning or municipal building permit decisions, how many are integrating source protection requirements into the following program areas?</p> <table border="1"> <thead> <tr> <th>Number of municipalities within SPR/A with day-to-day responsibility for land use planning decisions (column A)</th> <th>Number of municipalities integrating source protection requirements into land use planning decisions (column B)</th> <th>Percent Integrating Source Protection Column B / Column A</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>20</td> <td>100%</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Number of municipalities within SPR/A with day-to-day responsibility for building permit decisions (column A)</th> <th>Number of municipalities integrating source protection requirements into building permit decisions (column B)</th> <th>Percent Integrating Source Protection Column B / Column A</th> </tr> </thead> <tbody> <tr> <td>22</td> <td>22</td> <td>100%</td> </tr> </tbody> </table> <p>Reporting Frequency: Annually until all subject municipalities have integrated policies</p>	Number of municipalities within SPR/A with day-to-day responsibility for land use planning decisions (column A)	Number of municipalities integrating source protection requirements into land use planning decisions (column B)	Percent Integrating Source Protection Column B / Column A	20	20	100%	Number of municipalities within SPR/A with day-to-day responsibility for building permit decisions (column A)	Number of municipalities integrating source protection requirements into building permit decisions (column B)	Percent Integrating Source Protection Column B / Column A	22	22	100%													
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⁷ Integration means that specific changes have been/are being made to these municipal program areas as a direct result of SPP policies or as a result of more broad integration of the science from source protection.

Reportable theme	Who ¹ compiles this information?	ID	Reportables			Performance Measures			Outcomes ² (S, M, L)
						ID	Measure	Target/Trend	
			Strategy and timeline established to undertake OP & ZBL conformity exercise	21					
			Planning documents updated	9					
			Planning maps/schedules updated to show vulnerable areas	22					
			Siting/placement of activities away from vulnerable areas	13					
			Complete planning application requirements (i.e., supporting documentation such as stormwater management plan, master environmental servicing plan, lot grading plan, etc. needed)	24					
			Procedures in place to flag where section 59 policies apply including mechanism/process to facilitate exchange of information about development application process and the issuance of section 59 notices	20					
			Steps taken (e.g., municipal by-law, conservation authority regulation, etc.) to reduce the number of applications that require RMO screening	19					
			Public works operations	15					
			Other. Please provide a description.	0					
			No Changes Made. If no changes made, please explain: _____	0					
			Reporting Frequency: One-time (but may be needed again if and when further changes are made to business processes to integrate source protection)						
Examples of successful municipal actions to protect source water	SPA	37	<p>[OPTIONAL: If and where there are examples of successful municipal actions in the SPR/A that the authority wishes to highlight in the supplemental annual progress reporting form, include its details here. Please limit the descriptions provided to those the SPA feels are exceptional/very successful municipal actions.]</p> <p>Are there some unique examples of successful municipal actions within the SPR/A that are being/have been undertaken to protect source water either directly because of plan policies or as a result of more broad integration of the science from source protection? If yes, please provide details below.</p> <p>RESPONSE:</p>			N/A	No measure. Could use in public reporting vignettes to highlight successful initiatives.	N/A	N/A
			Reporting Frequency: Annually or when warranted						
Examples of successful residential or business actions to protect source water	SPA	38	<p>[OPTIONAL: If and where there are examples of successful residential and/or business actions in the SPR/A that the authority wishes to highlight in the supplemental annual progress reporting form, include its details here. Please limit the description provided to those the SPA feels are exceptional/ very successful examples.]</p> <p>Are there examples of local residents and/or businesses (including agriculture, salt applicator, fuel providers) who are taking successful concrete actions (e.g., engaged in more “green” behaviours that could protect water sources such as purchasing road salt alternatives, taking precautions when storing or disposing hazardous waste, organic solvents, etc.) to protect source water in their community(ies)? If yes, please provide details below.</p> <p>RESPONSE:</p>						
			Reporting Frequency: Annually or when warranted						
Enumerated threats: progress made in addressing significant threats engaged in at time of SPP approval	SPA	39a	<p>Complete the table below by first indicating which of the listed significant drinking water threats were being engaged in (i.e., enumerated as ‘existing’ significant threats/threats) at the time of SPP approval. Then, using the formula for the running tally of enumerated threats as explained below, complete the columns in the table with the information for each SDWT indicated as existing in the SPR/A.</p> <p>Lead SPAs will be maintaining a running tally of progress made in addressing significant threats that were on the ground before plans were approved. See Guidance document for additional details. The running tally consists of the formula: A+B-C-D where:</p>			O	Percent of significant drinking water threats that existed in the area when the SPP was approved and that	100% of significant drinking water threats that existed in the area when the	M (#5, #6) L (#8, #10)

Reportable theme	Who ¹ compiles this information?	ID	Reportables				Performance Measures			Outcomes ² (S, M, L)																																																																																																																																																																							
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(i.e., enumerated as 'existing')			<ul style="list-style-type: none"> A = Original estimate of SDWT engaged in/enumerated when SPP approved B = Additional SDWT identified after first SPP approved as a result of field verification (i.e., <u>not</u> part of original estimate of SDWT) C = SDWT included in enumeration estimates at time of plan approval but subsequently determined through field verification that: (i) it 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 no longer applying pesticides for their own reasons) D = SDWT addressed because policy is implemented* (*Note: Where multiple policy tools address any given threat sub-category, implemented means that actions associated with at least one policy tool have been completed/are in place.) SPAs may use their local discretion in which policy tool they wish to reflect as being implemented. 					have been addressed (i.e., eliminated or managed).	SPP was approved and that have been addressed (i.e., eliminated or managed).																																																																																																																																																																								
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Reportable theme	Who ¹ compiles this information?	ID	Reportables	Performance Measures			Outcomes ² (S, M, L)
				ID	Measure	Target/Trend	
			Reporting Frequency: Ongoing (annually)				
	SPA	39b	<p>Please provide comments below to explain the overall progress made in addressing these significant threats. Include the percentage of overall progress made in 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., SDWT addressed because policy is implemented) from the table above (reportable #39a) and dividing it into the number that is derived by adding the total numbers in columns A and B and then subtracting this sum total from the total in column C. In other words, overall progress made = D/A+B-C.</p> <p>COMMENTS: Overall significant progress was made in 2017 compared to 2016. Risk Management Officials in the TSR have made substantial efforts to get out and confirm the presence or absence of significant threats, and negotiate Risk Management Plans where required. In total, 30 RMP's were established in 2017 compared to 11 in 2016. Municipalities have also made considerable progress in the implementation of mandatory septic inspections, with 85% of the first mandatory inspections now complete. It should be noted, that there is a certain level of uncertainty in the enumerated threats table above. With this being only the second year of reporting, there is certainly some refinement still required to be made to the reportables, and some further clarification that would be helpful in collecting consistent data from all implementing bodies. Since the SPA's are not collecting threats location information, it is difficult to confirm the numbers being reported with the original threats data included in the Assessment Reports. Additionally, the information provided by the Province regarding existing significant threats that have a Prescribed Instrument (as reported in Reportable #16 above), were not incorporated into the enumerated threats table here due to the high level of uncertainty. The overall progress made in our enumerated threats table is 27%, which is likely slightly lower than actual given the uncertainty in the data.</p>				
			Reporting Frequency: Ongoing (annually)				
Assessment report information gaps (as per ss. 52(1), p. 2 of O. Reg. 287/07)	SPA	40	<p>Provide a summary of steps taken to further assess or implement the work plans described in technical rules #30.1 (Water Budget Tier 3), #50.1 (GUDI for WHPA-E or F), and #116 (ICA) through amendments carried out under section 34 or section 36 of the <i>Clean Water Act</i>.</p> <p>RESPONSE: No Section 34 or 36 amendments have occurred during the reporting period. The SPAs will be considering information gaps in the Assessment reports as they being preparation of the Section 36 workplan due in November 2018.</p>	N/A	N/A	N/A	N/A
			Reporting Frequency: Annually until all applicable work plans have been implemented.				
Other reporting items (as per ss. 52(1), p. 4 of O. Reg. 287/07)	SPA	41	<p>Does the SPA have any other item on which it wishes to report? If so, please explain.</p> <p>RESPONSE:</p>	N/A	N/A	N/A	N/A
			Reporting Frequency: Annually when applicable				
Source protection outcomes	SPA	42	<p>What positive outcomes (e.g., less water consumption, changes in behaviour, reduction in phosphorus and nitrogen concentrations, less chloride from road salt, reduction in algal blooms, human health protected, etc.), if any, have potentially resulted from the implementation of SPP policies? Please describe the outcomes below.</p> <p>RESPONSE: No other items to report on.</p>	P	Percentage of SPCs indicating that plan implementation may be a contributing factor to positive drinking water outcomes.	Increasing over time.	M (#4, #5, #6) L (#9, #10)
			Reporting Frequency: Ongoing (annually)				
Achievement of SPP objectives (as per ss. 46(3) of the CWA)	SPA	43a	<p>In the opinion of the Source Protection Committee (SPC), to what extent have the objectives of the SPP been achieved in this reporting period?</p> <p><input type="checkbox"/> Progressing Well/On Target - The majority of the source protection plan policies have been implemented and/or are progressing well. <input type="checkbox"/> Satisfactory - Some of the source protection plan policies have been implemented and/or are progressing well. <input type="checkbox"/> Limited Progress made - A few of source protection plan policies have been implemented and/or are progressing well.</p>	Q	Percentage of SPCs indicating that the objectives of the source protection plan are progressing well/on	Increasing over time.	S (#1, #2) M (#4, #5, #6, #7) L (#9, #10)

Reportable theme	Who ¹ compiles this information?	ID	Reportables	Performance Measures			Outcomes ² (S, M, L)
				ID	Measure	Target/Trend	
					target.		
			Reporting Frequency: Ongoing (annually)				
	SPA	43b	Please provide comments to explain how the SPC arrived at its opinion. Include a summary of any discussions that might have been had amongst the SPC members, especially where no consensus was reached. COMMENTS:				
			Reporting Frequency: Ongoing (annually)				

Thames – Sydenham and Region Drinking Water Source Protection Source Protection Committee Discussion Paper

Report to Chair and members
Thames – Sydenham and Region
Source Protection Committee

Agenda # 2018.03.23 6b

Cc SP Management Committee

Date March 23, 2018

Prepared By Jenna Allain, Source Protection Coordinator

Re: Section 36 Workplan Engagement and Submission Process

Background

At the time the Source Protection Plan was approved the Minister required a workplan be developed. This workplan (known as the Section 36 Workplan) is to set out what aspects of the Assessment Reports and SPP should be reviewed, the timeline of the review, and the consultation process with the SPC, SPAs, municipalities and the MOECC. The workplan should build on new information from plan implementation. Policy effectiveness, technical rule changes, implementation challenges will be part of the review as well as other factors. The SPC will have an active part in the workplan development.

The Plan Effective date was December 31, 2015, and the Section 36 workplan is due November 30, 2018.

Discussion

Timeline for Section 36 Workplan Development

- June 2018
 - SPC meeting to identify portions of the assessment report and plan that warrant further review.
- May – October 2018
 - Consultation Sessions with Municipal Working Group and meetings with individual municipalities, partner CAs and stakeholder groups (as necessary) to identify the portions of the assessment report and plan that warrant further review.
- October 2018
 - SPC meeting to review draft Section 36 workplan and provide final comment
- November 2018
 - Final Section 36 workplan to SPAs for submission endorsement
- November 30th, 2018
 - Submission of Section 36 Workplan to MOECC

SPC Members are welcome to participate in Section 36 workplan consultation sessions.

Thames – Sydenham and Region Drinking Water Source Protection Source Protection Committee Discussion Paper

Report to Members of the Thames – Sydenham and Region Source Protection Committee **Agenda #** 2018.03.23 6c

Cc SP Management Committee **Date** March 23, 2018

Prepared By Dean Edwardson, Chair, Thames-Sydenham and Region SPC
Jenna Allain, Source Protection Coordinator

Re: SPC Communications Plan

Background

Due to the infrequent meeting schedule of Source Protection Committees over the past few years, the Ministry has heard from SPC Chairs that SPC members have become disengaged with the program, and have had little communication about source protection with their stakeholder groups since before the SPP was approved. As a result, the Ministry has provided SPC Chairs with the opportunity to develop Communications Plans for their Source Protection Committees, and has included funding in Source Protection Authority budgets to accommodate SPC member participation in the delivery of the Communications Plan.

Discussion

The TSR communications strategy will allow SPC members to become more engaged in the program, and promote the program locally by focusing on the local efforts being made to protect drinking water and highlighting implementation success stories since the SPP has come into effect. SPC members will rely on existing education materials and information prepared by the local CA's to include in communications materials. CA staff will provide input into key messages and communications materials.

Target Audiences for Communications Delivery includes:

- Municipal staff and councillors
- New municipal councillors and new MPPs (following 2018 elections)
- Business, agriculture and industry associations etc.
- Local soil and crop associations
- Educating our media partners (newspapers, other print media, television) - (providing key messaging) to media outlets to use in their news stories)
- General Public
- Children's school groups and organizations (e.g., Scouts and Girl Guides)

Key messages for communicating source protection in the TSR Region will include:

- Implementation success stories, Section 36 workplan information (process, timeline, etc), and general source water information.
- Messaging will be tailored for each specific sector based on the most common threats associated with that sector within the TSR.
- General messaging about the importance of source protection/drinking water will be provided to specific target audiences (e.g. new municipal councillors, children's organizations)

Timing of delivery:

Delivery of messaging to all sectors should occur in the spring just after the first annual report has been submitted to the Province to highlight implementation success stories, as well as in the summer/fall to seek input to inform the Section 36 workplan. Municipal specific outreach should also occur in November 2018 targeting new municipal councillors elected in the October 2018 election.

Thames – Sydenham and Region Drinking Water Source Protection Source Protection Committee Discussion Paper

Report to Chair and members
Thames – Sydenham and Region
Source Protection Committee

Agenda # 2018.03.23 6d

Cc SP Management Committee

Date March 23, 2018

Prepared By Jenna Allain, Source Protection Coordinator

Re: Amendments to the Technical Rules used for vulnerability scoring of Intake Protection Zones (IPZs)

Background

The first phase of amendments to the Technical Rules was approved in March, 2017. A significant amendment to the Technical Rules is the ability to increase the vulnerability scoring for Great Lakes (Type A) and St. Clair River (Type B) intakes. Previously, the maximum source vulnerability factor (SVF) for a Great Lakes intake was 0.7, which only allows for the identification of low or moderate threats, unless the area was identified as an Event Based Area (EBA). This was recognized as an error in the methodology, hence the amendment.

Under the amended Rules, the source vulnerability factor (SVF) can be increased up to 1.0, which could result in the identification of significant drinking water threats. The vulnerability score of an intake can be increased if it is determined that the intake is in shallow waters, is in close proximity to the shoreline or if there has been a history of water quality concerns at the surface water intake. Any actions taken to amend source vulnerability factors are optional.

Using the amended Rules, Essex Region Conservation Authority staff have proposed a new scoring matrix for the SVF and applied to all intakes within the Essex Region. When the new scoring matrix was applied to the Wheatley Intakes (a shared system between Essex and TSR), the results showed an increase to the vulnerability scores for the Wheatley Emergency Intake such that significant drinking water threats could be identified.

Table 1 shows how this preliminary reassessment of the Source Vulnerability Factors would affect Type A and B intakes within the TSR when the scoring matrix prepared by ERCA is applied.

Table 1: Potential new Vulnerability Score for Type A and B intakes in the TSR

Intake	Intake type	Current Vulnerability Score		New Vulnerability Score	
		IPZ-1	IPZ-2	IPZ-1	IPZ-2
Wheatley Primary	A	6	4.8	6	4.8
Wheatley Emergency	A	7	5.6	10	8
Chatham/South Kent	A	5	4	5	4
West Elgin Primary	A	6	4.2	6	4.2
West Elgin Emergency	A	7	5.6	10	8
LAWSS	B	8	6.4	9	7.2
Town of Petrolia	A	7	6.3	7	6.3
Wallaceburg	B	9	7.2	10	8
Kettle and Stony Point	A	5	4	5	4

Discussion

Considering the information above further discussion is needed. The methodology for determining the appropriate scoring matrix should be carried out in consultation with MOECC staff, Municipal staff and neighbouring SPAs. There should be discussion with municipalities potentially impacted by these changes.

Recommendation

That updates to the Technical Rules with respect to vulnerability scoring of Intake Protection Zones be considered in the TSR Section 36 Workplan.

Thames – Sydenham and Region Drinking Water Source Protection Source Protection Committee Discussion Paper

Report to Chair and members
Thames – Sydenham and Region
Source Protection Committee

Agenda # 2018.03.23 6e

Cc SP Management Committee

Date March 23, 2018

Prepared By Jenna Allain, Source Protection Coordinator

Re: EBR Posting for *Safe Drinking Water Act* and *Clean Water Act*

Background

Two plain language regulation proposals were posted on the EBR on December 22nd for 60 days. The posting closed on February 20th, 2018. The first was a regulatory amendment proposal to Ontario Regulation 287/07 “General” under the Clean Water Act, and the second was a new regulation proposal under the Safe Drinking Water Act.

Proposed Amendment to the General Regulation under the Clean Water Act

The purpose of this amendment is to:

- Broaden the scope of administrative amendments to ARs and SPPs to include the removal of protection zones around drinking water systems that have been properly decommissioned. These types of changes could be therefore be made without requiring broad consultation and Minister’s approval.
- Include additional administrative amendments related to updating terminology, and notification requirements.
- Include *the establishment and operation of a liquid hydrocarbon pipeline* to prescribed threats list.
- Include an exemption from including future policies where no existing or forecasted pipelines.

Proposed Regulation under the Safe Drinking Water Act

The purpose of this proposed regulation is to:

- Ensure sources of drinking water for new or expanding drinking water systems are protected *before* providing water to the public.
- Municipalities (or system owners) would be required to ensure that work required under the Clean Water Act to delineate and score vulnerable areas be completed, and endorsed by council, before they can apply for a drinking water works permit.
- Regulation includes an exemption provision for emergency situations.

Discussion

Both proposals were developed to update the current source protection framework, and were refined through early stakeholder engagement in Spring 2017 and through the Environmental Registry consultation. A consultation session held in London in January was attended by the SPC Chair, one SPC member and the Source Protection Coordinator.

Consultation feedback generally indicated support for the proposed amendments to the General Regulation under the Clean Water Act and the proposed regulation under the Safe Drinking Water Act.

Tiny Canada town defeats oil firm in court fight over drinking water

Company sued Quebec township of 157 people after it created a no-drill zone, fearing for its water supply



'We are relieved that our right to protect our drinking water is finally recognised,' said the mayor of Ristigouche Sud-Est. Photograph: Alex Ortega/Getty Images/EyeEm

Ashifa Kassam in Toronto

Sat 3 Mar 2018 11.30 GMT

A small municipality in the Canadian province of Quebec that was facing a million-dollar lawsuit from an oil and gas exploration company has won its court battle, bringing an end to a four-year ordeal that began when residents took steps to protect their water supply.

"Reason and law prevailed today," François Boulay, the mayor of Ristigouche Sud-Est, a township of 157 people on Quebec's Gaspé Peninsula, said in a statement. "We are relieved that our right to protect our drinking water is finally recognised."

The clash traces its roots to 2011, when the province granted a Montreal-based company, Gastem, drilling permits to search for oil and gas in the eastern part of the province. Construction began on a drilling platform in the township's territory.

Amid concerns from Ristigouche Sud-Est residents over how the drilling would affect municipal water sources, the town passed a bylaw in 2013 that set out a 2km (1.2-mile) no-drill zone around its water supply.

Gastem shot back with a lawsuit that claimed residents had created an illegal bylaw to prevent the project from moving forward. The company's initial C\$1.5m (\$1.2m) claim for damages was later reduced to C\$984,676 - a figure that was more than three times the township's annual budget.

After years of mounting anxiety among residents, a judge at the superior court of Quebec ruled this week that Ristigouche Sud-Est was within its rights to protect its water supply.

"Far from being adopted in an untimely and hasty manner, the bylaw was the result of a serious effort to address the concerns and demands of Ristigouche's citizens," Judge Nicole Tremblay wrote in her decision. "Public interest, the collective well-being of the community and the safety of residents must be weighed for all projects introduced into a municipality."

In the absence of any existing provincial laws to protect water sources, the municipality had the right to create its own, the judge added. She ordered the company to cover half of the municipality's legal fees as well as provide an additional C\$10,000 to cover other costs incurred as a result of the lawsuit.

Gastem, which has 30 days to appeal the ruling, did not respond to a request for comment.

As Ristigouche Sud-Est waged the years-long legal battle, support poured in from across Canada. A crowdfunding campaign, launched in 2014 as the township grappled with the idea of legal fees that could reach hundreds of thousands of dollars, has raised more than C\$342,000 to date.

Municipal officials estimated that the court battle cost about C\$370,000 in legal fees and said any funds remaining would be donated to similar causes.

“Today, we raise our glass of potable water to the health of Quebec’s water and to all of those who supported us,” said Boulay, the mayor. “Thanks to all of you, we were able to defend ourselves - and win.”

He cautioned that the battle was far from over. The township has joined forces with more than 350 other municipalities in the province to take aim at a 2014 law that set out a protected perimeter of 500 metres around potable water sources. The municipalities are calling on provincial authorities to expand this protected, no-drill zone to two kilometres.

Jean-François Girard, the lawyer representing the township, described this week’s ruling as a victory, given that the lawsuit was seemingly solely aimed at punishing the municipality for taking a stand. “You have to think about it, the tax base in Ristigouche consists of 84 people,” he told Radio-Canada.

The ruling that emerged could set an important precedent for municipalities as they seek to secure a healthy environment for their residents, he said. “This will force companies that want to sue municipalities to think twice if they don’t have legal grounds.”

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