

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: November 18, 2016

Meeting Time: 10:00 am

Meeting Location: St. Clair Conservation Authority Board Room

Proposed Agenda

- | | | |
|----------|---|-------|
| 1 | Chair’s Welcome and Introductions –
New SPC Members (Oxford and Perth) and SP staff team | 10:00 |
| 2 | Adoption of the Agenda | |
| 3 | Delegations – none | |
| 4 | Minutes From the Previous Meetings
SPC meeting January 15, 2016-approved via email in January | |
| 5 | Declaration of Conflict of Interest | |
| 6 | Business | |
| 6a | Status of Chair Replacement and SPC Reduction | 10:15 |
| 6b | Water Wells First and Chatham-Kent Council Dover Aquifer issue | 10:20 |
| 6c | Annual Reporting requirements-final draft of reporting requirements from Province | 10:30 |
| 6ci | Annual Progress Reporting for Source Protection Supplemental Form_Nov2016 | |
| 6cii | Guidance & Rationale – Annual Progress Reporting for Source Protection Supplemental Form_Nov2016 | |
| 6ciii | Program Outcomes_Nov2016 | |
| 6civ | Program Logic Model_Nov2016 | |
| 6cv | Municipal Annual Report Template V2 | |
| 7d | Proposed changes to technical rules for surface water intakes | 11:00 |
| 7e | Lower Thames Valley SPA: Microcystin Issue Update | 11:20 |
| 7f | Update from Chairs meeting | 11:30 |

8	Information	
8a	• MOECC Report	11:40
9	In Camera Session (not planned)	
10	Other Business	11:50
11	Member Reports	
	Farewell to Bob	
12	Adjournment	12:00

Next Meeting: to be determined

Ministry of Environment and Climate Change, Source Protection Program Branch

Annual Progress Reporting Supplemental Form for Source Protection

Fall 2016

Annual Progress Reporting Supplemental Form for Source Protection

November 2016

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"> • 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; • Provide general compliance oversight; and, • Assess plan implementation to demonstrate progress made in protecting sources of drinking water 			
GUIDANCE	A guidance 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 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 Lakehead, the reporting period will be the 2016 calendar year. For both Niagara and Mattagami, the reporting period will include actions taken beginning on the effective date of their respective SPPs (i.e., October 1, 2014) plus the two full calendar years following the effective date (i.e., 2015 and 2016). Both Niagara and Mattagami will submit their first annual progress reports on May 1, 2017. For the other SPR/As that had their respective SPPs approved in 2014 and 2015, the reporting period will be from the effective date of the SPP plus approximately two full calendar years.			
SUBMISSION DEADLINE	The annual progress reporting supplemental form is due at the same time as the annual progress report template. This form is due on or before May 1 st of every year. The following SPAs are to submit their respective supplemental forms on May 1, 2017 : Lakehead, Niagara, and Mattagami. This form is due on or before May 1, 2018 from the following SPAs: 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, CTC, Halton-Hamilton, and Thames Sydenham & Region. This form is due on or before May 1, 2019 from Saugeen Grey Sauble Northern Bruce Peninsula, Lake Erie – Long Point, and Lake Erie – Grand River.			
QUESTIONS	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 ¹ at the SPPB:			
	Neil Gervais, Senior Drinking Water Program Advisor neil.gervais@ontario.ca	Michael Halder, Research and Planning Analyst michael.halder@ontario.ca	Mary Wooding, Liaison Officer source.protection@ontario.ca	Beth Forrest, Liaison Officer source.protection@ontario.ca

¹ Please send a copy of this annual progress reporting supplemental form also to the Liaison Officer that has been assigned to work with your source protection authority.

Annual Progress Reporting Supplemental Form for Source Protection

SOURCE PROTECTION PLAN REGION/AREA	<Insert the name of the region or area the SPP addresses – one form per unique SPP>
REPORTING PERIOD	<Insert the appropriate reporting period here>
DATE SUBMITTED (dd-mm-year)	<Insert date submitted to SPPB here>

Reportable theme	Who ² compiles this info?	ID	Reportables	Performance Measures			Outcomes ³ (S, M, L)				
				ID	Measure	Target/Trend					
Monitoring Policy Implementation	SPA	1a	(i) Did all implementing bodies submit a status update/report to the SPA as required by their respective monitoring policies in the SPP? <input type="checkbox"/> Yes <input type="checkbox"/> No (ii) If no, how many implementing bodies did not submit their status updates? _____ <i>Reporting Frequency:</i> Ongoing (annually) or on an as needed basis	N/A	N/A	N/A	N/A				
	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. <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #d9ead3;"> <th style="padding: 5px;">Name of Implementing Body</th> <th style="padding: 5px;">Explanation</th> </tr> </thead> <tbody> <tr> <td style="height: 20px;"> </td> <td> </td> </tr> </tbody> </table> <i>Reporting Frequency:</i> Ongoing (annually) or on an as needed basis	Name of Implementing Body	Explanation			N/A	N/A	N/A	N/A
	Name of Implementing Body	Explanation									
SPA & SPPB	2a	Complete the tables below to indicate the implementation status of various policies in the SPP. Table 1. Implementation status of policies that address significant drinking water threat activities.	A	Percent of policies that address significant drinking	100% of policies that address significant	M (#5, #6) L (#10)					

² **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.

³ 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.

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					B	water threats have been/are being implemented (Table 1).	drinking water threats have been/are being implemented.																																								
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					C	<u>For reporting by theme/other policies:</u> Percent of other policies that have been/are being implemented (Table 3).	<u>For reporting by theme/other policies:</u> Increasing percent of other policies being implemented.																																								

⁴ The term “implemented” shall mean that action was taken and completed. Some examples include that all risk management plans have been negotiated and established where required for existing drinking water threats, all previously issued prescribed instruments have been reviewed and, where necessary, amended, business processes in place to ensure future threats are addressed (e.g., new applications under the *Planning Act*, building permits, provincial instruments), spill response plans have been updated, education and outreach materials have been developed and distributed, etc. by or before the implementation timelines for these policies. See the accompanying Guidance and Rationale document for further details and direction.

Reportable theme	Who ² compiles this info?	ID	Reportables				Performance Measures			Outcomes ³ (S, M, L)
							ID	Measure	Target/Trend	
			Reporting Frequency: Ongoing (annually) until such time all plan policies in the SPP are considered to be implemented.							
Implementation status of SPP policies (as per O. Reg. 287/07, ss. 52(1), p. 1)	SPA & SPPB	2b	Summarize the reasons for any above results recorded as being "Not implemented/no progress made" and/or "No response received", by completing the table below with the following details. Insert additional rows as needed.							
			Policy ID	Implementing Body	Explanation of why actions were not taken by the person(s) or body(ies)	Outline next steps to support implementation				
			Reporting Frequency: Ongoing (annually) or on as needed basis							
Part IV (Section 57 – Prohibition, Section 58 - Risk Management Plan & Section 59 - Restricted Land Uses)	SPA	3a	[OPTIONAL] How many risk management plans (RMPs) were estimated (use best available data) to be required to address existing significant drinking water threats during the reporting period? _____				N/A	No direct measure.	N/A	N/A
			Reporting Frequency: Ongoing (annually)							
	SPA	3b	How many RMPs within the SPR/A have been agreed to or established (for existing and future threats) under the provisions of the CWA within the reporting period? _____				D	Number of risk management plans established.	All required activities have RMPs established.	S (#1, #2) M (#5, #6, #7) L (#9, #10)
			Reporting Frequency: Ongoing (annually)							
	SPA	3c	How many properties (i.e., parcels) does this apply to? (Note: Count the number of properties (i.e., parcels) to which a particular RMP applies) _____				E	Number of properties that are subject to risk management plans.	All required properties have RMPs established.	
			Reporting Frequency: Ongoing (annually)							
	SPA	3d	How many existing* significant drinking water threats have been managed through the established RMPs? _____ (* meaning engaged in OR enumerated as existing significant threats at the time of SPP approval)				N/A	No direct measure, but links with measure "W" associated with Implementation	N/A	N/A
			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							

Reportable theme	Who ² compiles this info?	ID	Reportables	Performance Measures			Outcomes ³ (S, M, L)
				ID	Measure	Target/Trend	
			<p>corresponding reportable #45.</p> <p><i>A = Original estimate of significant drinking water threat (SDWT) engaged in/enumerated when SPP approved</i></p> <p><i>B = Additional SDWT identified after SPP approved as a result of field verification (i.e., not part of original estimate of SDWT)</i></p> <p><i>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)</i></p> <p><i>D = SDWT addressed b/c policy 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.)</i></p> <p>Reporting Frequency: Ongoing (annually) or until such time all existing (enumerated) threats are managed according to plan policies</p>		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).		
	SPA	4	<p>[OPTIONAL]: <u>On average</u>, what proportion of the risk management measures (not including administrative reporting requirements) included in the RMPs were additional requirements or actions (i.e., beyond what the person engaged in the activity was already undertaking)?</p> <p><input type="checkbox"/> No additional requirements/actions included in the RMP (0%)</p> <p><input type="checkbox"/> Some additional requirements/actions (< 50%)</p> <p><input type="checkbox"/> Most are additional requirements/actions (> 50%)</p> <p><input type="checkbox"/> All are additional requirements/actions (100%)</p> <p>Please provide comments below, if any, to explain the above selection.</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 _____</p> <p>(ii) activities to which a RMP (section 58) policy applied, as per ss. 59(2)(b) of the CWA _____</p> <p>Reporting Frequency: Ongoing (annually)</p>				

Reportable theme	Who ² compiles this info?	ID	Reportables	Performance Measures			Outcomes ³ (S, M, L)									
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	SPA	6a	For the purposes of section 61 of O. Reg. 287/07, how many times did the risk management official (RMO) receive a notice and/or a copy of the prescribed instrument that states the prescribed instrument conforms with the significant threat policies in the SPP (i.e., statement of conformity confirms the instrument holder is exempt from requiring a RMP)? _____ <i>Reporting Frequency:</i> Ongoing (annually)													
	SPA	6b	Complete the table below for each notice and/or a copy of the prescribed instrument received by the RMO (as per O. Reg. 287/07, ss. 65(1), p. 4(iii)). Insert additional rows in the table if needed. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Prescribed Instrument/ Approval Number</th> <th style="width: 33%;">Applicable Prescribed Drinking Water Threat Activity</th> <th style="width: 33%;">Comments</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <i>Reporting Frequency:</i> Ongoing (annually)	Prescribed Instrument/ Approval Number	Applicable Prescribed Drinking Water Threat Activity	Comments										
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NOTE: The term inspections as used in the reportables below refer to those conducted on a planned and/or responsive basis.				F	Percent of inspections that show conformity with prohibition and risk management plan policies in an approved SPP.	Inspections result in 100% conformity with prohibition and risk management plan policies over time.	S (#2) M (#5, #6) L (#9, #10)									
	SPA	7a	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? _____ <i>Reporting Frequency:</i> 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? _____ <i>Reporting Frequency:</i> Ongoing (annually)													
	SPA	8	How many <i>existing</i> significant drinking water threats have been prohibited as a result of section 57 prohibitions? _____ <i>Reporting Frequency:</i> Ongoing (annually) or until such time all existing (enumerated) threats are prohibited according to plan policies													
	SPA	9a	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? _____ <i>Reporting Frequency:</i> Ongoing (annually)													
	SPA	9b	Among these inspections,													

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				ID	Measure	Target/Trend	
			(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)? _____				
			(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.) _____ 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? RESPONSE: Reporting Frequency: Ongoing (annually)				
SPA		10	How many properties (i.e., parcels) had inspections during this reporting period? _____ Reporting Frequency: Ongoing (annually)	N/A	No direct measure.	N/A	N/A
SPA		11	[OPTIONAL]: Overall, how would the lead SPA describe the amount of new/additional source protection information (e.g., threats, transport pathways, abandoned wells, etc. and how they are managed), if any, which the RMO/Risk Management Inspector (RMI) learned through their duties as compared to what was known at the time of plan approval, and that was shared with the lead SPA during this reporting period? <input type="checkbox"/> No new/additional information learned about source water protection <input type="checkbox"/> Some new/additional information learned about source water protection <input type="checkbox"/> Significant amount of new/additional information learned about source water protection Please provide comments below, if any, to explain the above response. Reporting Frequency: Ongoing (annually)	N/A	No direct measure. However, this reportable may help to illustrate the value-added knowledge/benefit the RMOs bring to communities through their day-to-day work.	N/A	N/A

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 (MNRF) 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.

Reportable theme	Who ² compiles this info?	ID	Reportables							Performance Measures		Outcomes ³ (S, M, L)				
			ID	Measure	Target/Trend											
Prescribed instruments - Integration and Conformity	SPPB	12	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. Insert an "X" where applicable.										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			PROVINCIAL MINISTRY PROGRAM AREAS										
						MOECC: Waste disposal – landfilling & storage	MOECC: Sewage Works/Wastewater	MOECC: Pesticides	MOECC: Water Takings	MOECC: Hauled sewage/biosolids	MOECC: Municipal water licenses/works permits	OMAFRA: Nutrient Management				
			Relevant staff training on source protection related to PIs including inspections													
			Guidance documents (e.g., standard operating policy/procedures) available to align with new program changes for source protection for reference by ministry staff													
			Screening process in place to identify incoming PI applications potentially affected by SPP policies													
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																
System in place to track the PIs that																

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			are subject to SPP policies																																															
			Process in place to map or otherwise geo-reference PIs that are subject to PI policies																																															
			Protocol in place to review previously issued (i.e., existing) PIs potentially affected by SPP policies			N/A		N/A																																										
			Other changes made to business processes. Provide a brief description below.																																															
			No changes made. If no changes made to business processes to integrate source protection, please explain the reason(s) below.																																															
			Reporting Frequency: One-time (but may be needed again if and when further changes are made to business processes to integrate source protection)																																															
	SPPB	13	Provide a brief description of each provincial ministry's process for ensuring PI decisions for <i>incoming</i> 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.																																															
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	SPPB	14	<p>Provide a brief description of the approach each provincial ministry is taking for <i>incoming</i> PI applications (new or amendments) to have regard to any moderate and/or low drinking water threat policies that rely on PIs.</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></td> </tr> <tr> <td>MOECC: Sewage works/wastewater</td> <td></td> </tr> <tr> <td>MOECC: Pesticides</td> <td></td> </tr> <tr> <td>MOECC: Water Taking</td> <td></td> </tr> <tr> <td>MOECC: Hauled sewage/biosolids</td> <td></td> </tr> <tr> <td>MOECC: Municipal drinking water licenses/works permits</td> <td></td> </tr> <tr> <td>OMAFRA: Nutrient Management</td> <td></td> </tr> <tr> <td>MNRF: Aggregates (Fuel storage)</td> <td></td> </tr> <tr> <td>MTO: Aggregates (Fuel storage)</td> <td></td> </tr> </tbody> </table> <p>Reporting Frequency: One-time</p>	MINISTRY PROGRAM AREA	DESCRIPTION	MOECC: Waste Disposal Sites – landfilling and storage		MOECC: Sewage works/wastewater		MOECC: Pesticides		MOECC: Water Taking		MOECC: Hauled sewage/biosolids		MOECC: Municipal drinking water licenses/works permits		OMAFRA: Nutrient Management		MNRF: Aggregates (Fuel storage)		MTO: Aggregates (Fuel storage)																	
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							ID	Measure	Target/Trend	
				through secondary/detailed review for source protection purposes	determined to be a SDWT and activity was managed through conditions in PI	determined to be a SDWT and activity was prohibited (i.e. PI not issued)				
			TOTAL							
MOECC: Pesticides										
				ACTIONS TAKEN IN PIs						
				Number of incoming applications that went through secondary/detailed review for source protection purposes	Number of decisions made where PI activity determined to be a SDWT and activity was managed through conditions in PI	Number of decisions made where PI activity determined to be a SDWT and activity was prohibited (i.e. PI not issued)				
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			TOTAL							
MOECC: Hauled Sewage										
				ACTIONS TAKEN ON PIs						
				Number of incoming applications that went through secondary/detailed	Number of decisions made where PI activity determined to be a SDWT and activity was	Number of decisions made where PI activity determined to be a SDWT and activity was				

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							ID	Measure	Target/Trend		
				review for source protection purposes	<i>managed</i> through conditions in PI	<i>prohibited</i> (i.e. PI not issued)					
			TOTAL								
MOECC: Biosolids (Processed Organic Waste)											
			ACTIONS TAKEN ON PIs								
			Number of incoming applications that went through secondary/detailed review for source protection purposes	Number of decisions made where PI activity determined to be a SDWT and activity was <i>managed</i> through conditions in PI	Number of decisions made where PI activity determined to be a SDWT and activity was <i>prohibited</i> (i.e. PI not issued)						
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	SPPB	16a	Provide a brief description of each provincial ministry's process for ensuring PIs that were <i>previously</i> issued or otherwise created before the plan took effect (i.e., existing PIs) conform with the significant drinking water threat policies applicable to each SPR/A in the table below.																								
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	SPPB	16b	<p>Complete the tables below to assist with tracking the number of decisions made on <i>previously issued</i> (i.e. existing) PIs for the provincial program areas indicated in each table below.</p> <p>Note: <i>This information is expected to be helpful for SPR/As as they maintain a running tally of progress in addressing significant threats that were on the ground before plans were approved (e.g., running tally = A+B-C-D)</i></p> <p><i>A = Original estimate of SDWT engaged in/enumerated when SPP approved</i> <i>B = Additional SDWT identified after SPP approved as a result of field verification (i.e., not part of original estimate of SDWT)</i> <i>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)</i> <i>D = SDWT addressed because policy 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.)</i></p>	I	Number of prescribed instrument decisions made to manage significant threats or prevented them from occurring.	All (100%) of prescribed instrument decisions address significant threats each year.	S (#1, #2) M (#5, #6, #7) L (#9, #10)																				

Reportable theme	Who ² compiles this info?	ID	Reportables			Performance Measures			Outcomes ³ (S, M, L)
						ID	Measure	Target/Trend	
			MOECC: Waste disposal site – landfilling and storage (transfer sites)						
			Number of PIs previously issued (i.e., prior to the standard operating policies (SOP) being in place in January 2015) in areas where the activity governed by the PI could be a SDWT and which went through secondary screening	ACTIONS TAKEN ON PIs			Number of PIs where <i>no additional conditions were needed</i> (i.e., existing terms and conditions sufficient)	Number of PIs <i>revoked</i>	
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Reportable theme	Who ² compiles this info?	ID	Reportables			Performance Measures			Outcomes ³ (S, M, L)													
						ID	Measure	Target/Trend														
			<p>NOTE: Since pesticide permits are issued on a seasonal basis, all existing permits expire. Where incoming applications seek renewal, detailed screening of the application occurs and the applicable PI policies applied. As a result, actions taken on existing permits are not required to be tracked and reported in this reportable. Instead see reportable #15.</p>																			
			<p>MOECC: Water Taking Permits</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Number of PIs previously issued (i.e., prior to the SOPs being in place in January 2015) in areas where the activity governed by the PI could be a SDWT and which went through secondary screening</th> <th colspan="3">ACTIONS TAKEN ON PIs</th> </tr> <tr> <th>Number of PIs changed (i.e., amended, revoked and replaced) for source protection purposes</th> <th>Number of PIs where no additional conditions were needed (i.e., existing terms and conditions sufficient)</th> <th>Number of PIs revoked</th> </tr> </thead> <tbody> <tr> <td>TOTAL</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Number of PIs previously issued (i.e., prior to the SOPs being in place in January 2015) in areas where the activity governed by the PI could be a SDWT and which went through secondary screening	ACTIONS TAKEN ON PIs			Number of PIs changed (i.e., amended, revoked and replaced) for source protection purposes	Number of PIs where no additional conditions were needed (i.e., existing terms and conditions sufficient)	Number of PIs revoked	TOTAL								
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			<p>MOECC: Hauled sewage/biosolids</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 existing approvals are not being tracked.</p> <p>NOTE 2: Existing 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 the existing hauled sewage and biosolids spreading site approvals are not being tracked in this reportable. Instead see reportable #15.</p>																			

Reportable theme	Who ² compiles this info?	ID	Reportables			Performance Measures			Outcomes ³ (S, M, L)
						ID	Measure	Target/Trend	
MOECC: Municipal Drinking Water Licenses									
		Number of PIs previously issued in areas where the activity governed by the PI could be a SDWT and which went through secondary/detailed screening	ACTIONS TAKEN ON PIs						
			Number of PIs changed (i.e., amended, revoked and replaced) for source protection purposes	Number of PIs where no additional conditions were needed (i.e., existing terms and conditions sufficient)	Number of PIs revoked				
TOTAL									
MOECC: Municipal Drinking Water Works Permits									
		Number of PIs previously issued in areas where the activity governed by the PI could be a SDWT and which went through secondary/detailed screening	ACTIONS TAKEN ON PIs						
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			TOTAL								
			Reporting Frequency: Ongoing or until such time as the review exercise is completed for existing PIs associated with this program area								
	SPPB	16c	If and where applicable to your SPR/A, provide an <u>estimated percent progress</u> for completing the exercise for ensuring that PIs that were <i>previously</i> issued or otherwise created before the plan took effect (i.e., existing) conform with the significant drinking water threat policies for each of the following provincial ministry program areas in the table below.								

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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>MOECC: PIs issued under the <i>Safe Drinking Water Act</i></td> <td></td> </tr> <tr> <td>Comments:</td> <td></td> </tr> <tr> <td>MOECC: PIs issued under the <i>Pesticides Act</i></td> <td></td> </tr> <tr> <td>Comments:</td> <td></td> </tr> <tr> <td>OMAFRA: PIs issued under the <i>Nutrient Management Act</i></td> <td></td> </tr> <tr> <td>Comments:</td> <td></td> </tr> <tr> <td>MNRF: PIs issued under the <i>Aggregate Resources Act</i></td> <td></td> </tr> <tr> <td>Comments:</td> <td></td> </tr> <tr> <td>MTO: PIs issued under the <i>Aggregate Resources Act</i></td> <td></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>		Comments:		MOECC: PIs issued under the <i>Pesticides Act</i>		Comments:		OMAFRA: PIs issued under the <i>Nutrient Management Act</i>		Comments:		MNRF: PIs issued under the <i>Aggregate Resources Act</i>		Comments:		MTO: PIs issued under the <i>Aggregate Resources Act</i>		N/A	N/A	N/A	N/A
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	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: Applicable to only certain OMAFRA instruments under the Nutrient Management Act.)</p> <p>RESPONSE:</p>																									
			Reporting Frequency: One-time (but may be needed again if and when any changes are made)																									
<p>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 licenses) affected by PI policies. The term inspections as used in the following reportables refer to those conducted on a planned and/or responsive basis.</p>																												
Prescribed Instruments – Inspections and Compliance	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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">MINISTRY PROGRAM AREA</th> <th style="width: 50%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr><td>MOECC: Waste Disposal Sites – landfilling and storage</td><td></td></tr> <tr><td>MOECC: Sewage works/wastewater</td><td></td></tr> <tr><td>MOECC: Pesticides</td><td></td></tr> <tr><td>MOECC: Water Taking</td><td></td></tr> <tr><td>MOECC: Hauled sewage/biosolids</td><td></td></tr> <tr><td>MOECC: Municipal drinking water licenses/works permits</td><td></td></tr> <tr><td>OMAFRA: Nutrient Management</td><td></td></tr> <tr><td>MNRF: Aggregates (Fuel storage)</td><td></td></tr> <tr><td>MTO: Aggregates (Fuel storage)</td><td></td></tr> </tbody> </table> <p>Reporting Frequency: One-time</p>		MINISTRY PROGRAM AREA	DESCRIPTION	MOECC: Waste Disposal Sites – landfilling and storage		MOECC: Sewage works/wastewater		MOECC: Pesticides		MOECC: Water Taking		MOECC: Hauled sewage/biosolids		MOECC: Municipal drinking water licenses/works permits		OMAFRA: Nutrient Management		MNRF: Aggregates (Fuel storage)		MTO: Aggregates (Fuel storage)		J	Number of relevant ministry program areas that incorporate source protection considerations into their respective inspection priorities.	All relevant 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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SPPB	20	<p>Briefly describe, in general terms, how source protection is taken into consideration when planning for and prioritizing inspections.</p>																										

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	SPPB	21	<p>Reporting Frequency: One-time but maybe needed again if and when changes are made</p> <p>Briefly describe, in general terms, how each ministry program area ensures PI holders comply with their instrument.</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></td> </tr> <tr> <td>MOECC: Sewage works/wastewater</td> <td></td> </tr> <tr> <td>MOECC: Pesticides</td> <td></td> </tr> <tr> <td>MOECC: Water Taking</td> <td></td> </tr> <tr> <td>MOECC: Hauled sewage/biosolids</td> <td></td> </tr> <tr> <td>MOECC: Municipal drinking water licenses/works permits</td> <td></td> </tr> <tr> <td>OMAFRA: Nutrient Management</td> <td></td> </tr> <tr> <td>MNRF: Aggregates (Fuel storage)</td> <td></td> </tr> <tr> <td>MTO: Aggregates (Fuel storage)</td> <td></td> </tr> </tbody> </table> <p>Reporting Frequency: One-time (but may be needed again if and when any changes are made)</p>	MINISTRY PROGRAM AREA	DESCRIPTION	MOECC: Waste Disposal Sites – landfilling and storage		MOECC: Sewage works/wastewater		MOECC: Pesticides		MOECC: Water Taking		MOECC: Hauled sewage/biosolids		MOECC: Municipal drinking water licenses/works permits		OMAFRA: Nutrient Management		MNRF: Aggregates (Fuel storage)		MTO: Aggregates (Fuel storage)					
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Land Use Planning (LUP)	SPPB	22a	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	H	See measure “H”	Same target/trend as measure “H”.	S (#1, #2) M (#4, #5, #6, #7) L (#10)																				

Reportable theme	Who ² compiles this info?	ID	Reportables	Performance Measures			Outcomes ³ (S, M, L)
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			(specifically, the policies on List A - Significant threat policies that affect decisions under the <i>Planning Act</i> and <i>Condominium Act, 1998</i>)? <u>RESPONSE:</u> Reporting Frequency: One-time				
	SPPB	22b	In what other ways does MMA integrate source protection considerations into their business or operational processes? Please provide a brief description of each. <u>RESPONSE:</u> Reporting Frequency: One-time				
	SPA	23a	In total, how many municipalities (including upper-, lower-, and single-tier) within the SPR/A are required to complete: Official Plan (OP) conformity exercises for source protection? _____ Zoning by-law (ZBL) conformity exercises for source protection? _____ *Note: <i>Applies to every municipality affected by land use planning or Part IV type policies.</i> Reporting Frequency: One-time	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 their planning documents.	S (#1, #2) M (#4, #5, #6, #7) L (#10)
	SPA	23b	Of these municipalities, how many have: (i) Completed their OP conformity exercise _____ (ii) Completed their ZBL conformity exercises _____ (iii) Completed OP conformity exercise but under appeal _____ (iv) Completed ZBL conformity exercise but under appeal _____ (v) OP conformity exercise in process _____ (vi) ZBL conformity exercise in process _____ (vii) Not started their OP conformity exercise _____ (viii) Not started their ZBL conformity exercise _____ Reporting Frequency: Ongoing (annually) or until such time all applicable municipalities have completed their conformity exercise				

Reportable theme	Who ² compiles this info?	ID	Reportables	Performance Measures			Outcomes ³ (S, M, L)
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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	<p>(i) By what methods are/have E&O policies being/been implemented to raise knowledge and awareness about source water protection in the SPR/A? Choose all that apply.</p> <ul style="list-style-type: none"> <input type="checkbox"/> development and distribution of educational materials for general public <input type="checkbox"/> development and distribution of educational materials for target audiences including developers, builders, landowners, farmers, etc. <input type="checkbox"/> in-person workshops <input type="checkbox"/> site visits <input type="checkbox"/> source protection content for websites <input type="checkbox"/> educational videos (e.g., YouTube) <input type="checkbox"/> podcasts <input type="checkbox"/> collaboration with other bodies (e.g., ministries, local organizations, etc.) <input type="checkbox"/> other. Please specify _____ <input type="checkbox"/> methods for implementing E&O not yet determined <p>(ii) Identify the ways in which outreach efforts were conducted to reach target audiences about source water protection? Choose all that apply.</p> <ul style="list-style-type: none"> <input type="checkbox"/> social media promotion (e.g., use of Facebook, Twitter, Instagram, etc.) <input type="checkbox"/> traditional media advertising (e.g., print media, radio, television) <input type="checkbox"/> site visits <input type="checkbox"/> integration with other outreach programs or campaigns (e.g., Community Environment Days, etc.) <input type="checkbox"/> articles in publications <input type="checkbox"/> information kiosks at events/festivals <input type="checkbox"/> other. Please specify _____ 	L	Percentage of the intended target audience reached by all E&O policies in the SPP that require the distribution of information.	Increasing percentage of the intended target audience reached over time on a cumulative basis.	S (#1, #2) M (#4, #5, #6, #7) L (#8, #9, #10)
		Reporting Frequency: First 3-5 years of reporting					
	SPA & SPPB	24b	<p>What is the average⁵ estimated percentage of the target audience reached by all applicable E&O policies in the SPP? _____</p>				
Reporting Frequency: First 3-5 years of reporting							

⁵ See Guidance for information on how to determine and report the average estimated percentage of the target audience reached.

Reportable theme	Who ² compiles this info?	ID	Reportables	Performance Measures			Outcomes ³ (S, M, L)
				ID	Measure	Target/Trend	
	SPA & SPPB	25	<p>What did the E&O policies that were implemented target in the SPR/A? Please select all that apply from the list below.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Threats (significant) <input type="checkbox"/> Threats (moderate-low) <input type="checkbox"/> Transport pathways <input type="checkbox"/> Spills prevention/spill events <input type="checkbox"/> Drinking water issues <input type="checkbox"/> Conditions <input type="checkbox"/> Local threat <input type="checkbox"/> Other. Please specify _____ <p>Reporting Frequency: First 3-5 years of reporting</p>				
	SPA & SPPB	26	<p>[OPTIONAL: <i>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.]</i></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:</p> <p>Reporting Frequency: Ongoing (annually)</p>				
Signage	SPA & SPPB	27a	<p>How many signs have been installed on provincial highways in the SPR/A during the reporting period? _____</p> <p>Reporting Frequency: First 3-5 years of reporting</p>	M	Number of source water protection signs installed within 5-10 years of plan approval.	Increasing number of source protection signs installed in the first 5-10 years of plan	S (#1, #2) M (#3, #4, #6) L (#8, #9, #10)

Reportable theme	Who ² compiles this info?	ID	Reportables	Performance Measures			Outcomes ³ (S, M, L)								
				ID	Measure	Target/Trend									
	SPA & SPPB	27b	How many signs have been installed on municipal roads in the SPR/A during the reporting period (for the first report include any signs that may have been installed prior to the reporting period)? _____ Reporting Frequency: First 3-5 years of reporting			implementation (on a cumulative basis).									
	SPA & SPPB	27c	Were signs installed at other locations? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, please explain below. Reporting Frequency: First 3-5 years of reporting												
Source protection knowledge and action	SPA	28a	Has the SPA conducted surveys to gauge source protection knowledge and action? <input type="checkbox"/> Yes <input type="checkbox"/> No Reporting Frequency: Annually or when available	N	Number of SPR/As that conducted surveys indicating that survey respondents have gained source protection knowledge and have made a commitment to change behaviours that are protective of source water.	Increasing source protection knowledge and behavioural changes that are protective of source water over time.	S (#2) M (#4) L (#9, #10)								
	SPA	28b	Where survey(s) were conducted by the SPA, complete the table below for each survey conducted to indicate the population group(s) targeted (e.g., farmers, fuel suppliers, population living within vulnerable area/zones, etc.) and to discuss the results including, where possible and available, any insights gained about source protection knowledge and any commitment made to changing behaviour that is protective of source waters. Insert additional rows in the table if needed. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Survey Name/Number</th> <th style="width: 30%;">Population Group Targeted</th> <th style="width: 40%;">Survey Results</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> Reporting Frequency: Annually or when available	Survey Name/Number	Population Group Targeted	Survey Results									
Survey Name/Number	Population Group Targeted	Survey Results													
Incentives	SPA & SPPB	29	If applicable to the SPR/A, complete the table below indicating the type of incentive(s) that was made available (whether as a policy in the SPP or not), the source that provided the incentive(s), the prescribed drinking water threat activity(ies) to which it relates, the degree to which the incentive(s) assisted with the implementation of SPP policies that address significant drinking water threat activity(ies), and include any comments. Use a single row to describe each type of incentive (e.g., PI application fees waived, funding, other non-financial incentives, etc.). Insert additional rows if necessary in the table below.	O	Degree to which incentives assisting with the implementation of SPP policies.	All incentives assisting with the implementation of SPP policies to a full and significant/large	S (#2) M (#5, #6) L (#10)								

Reportable theme	Who ² compiles this info?	ID	Reportables			Performance Measures			Outcomes ³ (S, M, L)
						ID	Measure	Target/Trend	
Provincial ministry integration of source protection (beyond PIs)	SPPB	31	Beyond the provincial ministry program areas that are directly affected by the PI policies included in plans, which other ministry program areas integrate source protection considerations into their business or operational processes? Please provide a brief description of each.			H	See measure "H"	Same target/trend for measure "H".	S (#2) M (#7) L (#8, #9)
			<p><u>RESPONSE:</u></p> <p><i>Reporting Frequency:</i> Annually or when warranted</p>						
Sewage System Inspections – Ontario Building Code (OBC)	SPA	32a	How many on-site sewage systems in the SPA require inspections in accordance with the Ontario Building Code (OBC)? _____			P	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)
			<p><i>Reporting Frequency:</i> One-time</p>						
			32b	Of these, how many on-site sewage systems requiring inspections in accordance with the OBC (i.e., once every five years) have been inspected? _____					
<p><i>Reporting Frequency:</i> Ongoing (annually)</p>									
32c	How many on-site sewage systems inspected in the reporting period required:			Q	Number of identified issues showing improvements in the concentration(s) and/or trend(s) of	Improvements over time in the concentration or loadings of contaminant(s)/ issue(s) of concern in	S (#1, #2) M (#4, #5, #6, #7) L (#10)		
	<ul style="list-style-type: none"> • minor maintenance work (e.g., pump out, etc.)? _____ • major maintenance work (e.g., tank replacement, etc.)? _____ <p><i>Reporting Frequency:</i> Ongoing (annually)</p>								
Environmental monitoring for drinking water issues	SPA	33	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 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.			Q	Number of identified issues showing improvements in the concentration(s) and/or trend(s) of	Improvements over time in the concentration or loadings of contaminant(s)/ issue(s) of concern in	S (#1, #2) M (#4, #5, #6, #7) L (#10)
			Drinking Water	Drinking Water	ICA				

Reportable theme	Who ² compiles this info?	ID	Reportables				Performance Measures			Outcomes ³ (S, M, L)
			System	Issue/Parameter	delineated for this issue? (Yes/No)		Changes Contributing to Change in Observations (Optional)	ID	Measure	
						<input type="checkbox"/> Increasing concentration/trend <input type="checkbox"/> Decreasing concentration/trend <input type="checkbox"/> No change in concentration/trend <input 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 identified issue(s).	sources of drinking water.	
						<input type="checkbox"/> Increasing concentration/trend <input type="checkbox"/> Decreasing concentration/trend <input type="checkbox"/> No change in concentration/trend <input 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				
Reporting Frequency: Ongoing (annually)										

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				ID	Measure	Target/Trend										
Drinking water surveillance environmental monitoring	SPA	34	<p>[OPTIONAL]: If and where there are participating municipal drinking water systems in the Drinking Water Surveillance Program and data is available, complete the table below with the following details. In the description of any changes in the concentration or loadings of various parameters that may be of concern in sources of drinking water, indicate if the changes reflect an improvement in water quality.</p> <table border="1" data-bbox="491 406 1787 625"> <thead> <tr> <th>Name of Participating Drinking Water System</th> <th>Parameter of Concern</th> <th>Describe changes in the concentration or loadings of parameter since the approval of the assessment report</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Reporting Frequency: Ongoing (annually)</p>	Name of Participating Drinking Water System	Parameter of Concern	Describe changes in the concentration or loadings of parameter since the approval of the assessment report							R	Number of SPAs with participating drinking water systems in the Drinking Water Surveillance Program indicating an improvement in the concentration(s) and/or trend(s) of various contaminants/parameters of concern.	Improvements in the concentration or loadings of contaminants/parameters of concern in sources of drinking water.	S (#2) M (#3) L (#10)
			Name of Participating Drinking Water System	Parameter of Concern	Describe changes in the concentration or loadings of parameter since the approval of the assessment report											
<p>If applicable to the SPR/A, 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))? _____</p> <p>Reporting Frequency: Ongoing (annually)</p>	S	Number of SPAs reporting that actions were taken after receiving transport pathway notices.	All SPAs taking action when they receive transport pathway notices.	S (#1, #2) M (#5, #7) L (#10)												
<p>What actions did the SPA take as a response to receiving these notices (e.g., SPA provided information to municipalities about changes in vulnerability, etc.)? Please describe below.</p> <p>RESPONSE:</p> <p> </p> <p>Reporting Frequency: Ongoing (annually)</p>																
<p>[OPTIONAL]: Provide specific information on actions taken by any person or body to reduce the impacts that transport pathways have on source water (e.g., number of wells properly abandoned by municipalities and/or private landowners in accordance with O. Reg. 903, the number of vertical boreholes where additional sealing was installed)?</p> <p>RESPONSE:</p> <p> </p>																

Reportable theme	Who ² compiles this info?	ID	Reportables	Performance Measures			Outcomes ³ (S, M, L)																										
				ID	Measure	Target/Trend																											
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Positive impact examples for each of the following policy tools or topics (e.g., road salt management, transport pathways, spills response, water quantity, G. Lakes, any "other" policy)	SPA & SPPB	37	<i>[OPTIONAL: If and where there are successful examples for each of the following initiatives in the SPR/A that the authority wishes to highlight in the supplemental annual progress reporting form, 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).]</i>	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	SPA	38a	In total, how many municipalities (including upper-, lower-, and single-tier) within the SPR/A are subject to SPP policies (any policy tool)? _____	T	Number of municipalities integrating source	Increasing number of municipalities	S (#1, #2) M (#4, #5, #6, #7)																										
			Reporting Frequency: One-time																														

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					ID	Measure	Target/Trend																
protection	SPA	38b	<p>Of the total municipalities within the SPR/A that are subject to SPP policies as noted above, how many are integrating⁶ source protection requirements into the following program areas?</p> <p>Municipal land use planning _____ Municipal building permits _____</p> <p>Reporting Frequency: Annually until all subject municipalities have integrated policies</p>			protection considerations and/or use the science of source protection in their business or operational processes.	integrating source protection considerations and/or use the science of source protection in their business or operational processes (on a cumulative basis).	L (#8, #9, #10)															
	SPA	38c	<p>Indicate the number of subject municipalities (including upper-, lower-, and single-tier) that are integrating source protection into the listed business processes in the table below.</p> <table border="1"> <thead> <tr> <th>Business Processes</th> <th>Number of subject municipalities integrating source protection</th> </tr> </thead> <tbody> <tr> <td>Staff involved with land use planning and/or section 59 policies trained in source protection</td> <td></td> </tr> <tr> <td>Staff guidance documents updated/produced for evaluating land use planning applications conforming with/having regard to SPP policies</td> <td></td> </tr> <tr> <td>Planning design and technical guidelines updated/produced for source protection considerations for applicants</td> <td></td> </tr> <tr> <td>Strategy and timeline established to undertake OP & ZBL conformity exercise</td> <td></td> </tr> <tr> <td>Planning documents updated</td> <td></td> </tr> <tr> <td>Planning maps/schedules updated to show vulnerable areas</td> <td></td> </tr> <tr> <td>Siting/placement of activities away from vulnerable areas</td> <td></td> </tr> <tr> <td>Complete planning application requirements (i.e., supporting documentation such as stormwater management plan, master environmental servicing plan, lot grading plan, etc. needed)</td> <td></td> </tr> <tr> <td>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</td> <td></td> </tr> </tbody> </table>						Business Processes	Number of subject municipalities integrating source protection	Staff involved with land use planning and/or section 59 policies trained in source protection		Staff guidance documents updated/produced for evaluating land use planning applications conforming with/having regard to SPP policies		Planning design and technical guidelines updated/produced for source protection considerations for applicants		Strategy and timeline established to undertake OP & ZBL conformity exercise		Planning documents updated		Planning maps/schedules updated to show vulnerable areas		Siting/placement of activities away from vulnerable areas
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⁶ Integration means that specific changes have been made to these municipal program areas (e.g., OP and ZBL amendments, inclusions of source protection in building permit application forms) as a direct result of source water protection.

Reportable theme	Who ² compiles this info?	ID	Reportables		Performance Measures			Outcomes ³ (S, M, L)																						
					ID	Measure	Target/Trend																							
			Steps taken (e.g., municipal by-law, conservation authority regulation, etc.) to reduce the number of applications that require RMO screening																											
			Public works operations																											
			Other. Please provide a description.																											
			No Changes Made. If no changes made, please explain below.																											
			Reporting Frequency: One-time (but may be needed again if and when further changes are made to business processes to integrate source protection)																											
	SPA	39	Complete the table below by indicating the number of municipalities (including upper-, lower-, and single-tier) within the SPR/A that have integrated/are integrating ⁷ source protection knowledge/science into the following municipal program areas/activities.																											
			<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></td> </tr> <tr> <td>Snow storage</td> <td></td> </tr> <tr> <td>Pesticide storage/application</td> <td></td> </tr> <tr> <td>Hazardous waste storage</td> <td></td> </tr> <tr> <td>Organic solvents storage</td> <td></td> </tr> <tr> <td>Municipal fuel storage (e.g., for heating, maintenance vehicles, etc.)</td> <td></td> </tr> <tr> <td>Municipal well maintenance and operations</td> <td></td> </tr> <tr> <td>Municipal water quantity</td> <td></td> </tr> <tr> <td>Stormwater infrastructure maintenance</td> <td></td> </tr> <tr> <td>Other. Please provide a description below.</td> <td></td> </tr> </tbody> </table>		Municipal Program Areas/Activities	Number of municipalities that have integrated/are integrating source into program areas/activities	Road salt storage/application		Snow storage		Pesticide storage/application		Hazardous waste storage		Organic solvents storage		Municipal fuel storage (e.g., for heating, maintenance vehicles, etc.)		Municipal well maintenance and operations		Municipal water quantity		Stormwater infrastructure maintenance		Other. Please provide a description below.					
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			Reporting Frequency: Annually or when warranted																											

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Reportable theme	Who ² compiles this info?	ID	Reportables	Performance Measures			Outcomes ³ (S, M, L)																				
				ID	Measure	Target/Trend																					
Municipal use of tools/resources	SPA	40	<p>What specific tools/resources have municipalities (including upper-, lower-, and single-tier) within the SPR/A been using since the SPP took effect? Check all that apply, and indicate approximately how many municipalities are using each, if any, in the table below.</p> <table border="1"> <thead> <tr> <th>Tools/Resources</th> <th>Number of municipalities using each tool/resource</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> Source Protection Interactive Mapping Tool</td> <td></td> </tr> <tr> <td><input type="checkbox"/> RMO Forum</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Resource Catalogue/Campaign in a Box toolkit</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Education & outreach webinar</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Education & outreach community of practice</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Guidance materials (i.e., fact sheets, information bulletins, etc.)</td> <td></td> </tr> <tr> <td><input type="checkbox"/> MOECC training (e.g., RMO/RMI certification; property entry)</td> <td></td> </tr> <tr> <td><input type="checkbox"/> OMAFRA/OFEC information sessions</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Other. Please specify: _____</td> <td></td> </tr> </tbody> </table> <p>Reporting Frequency: First 3-5 years of reporting</p>	Tools/Resources	Number of municipalities using each tool/resource	<input type="checkbox"/> Source Protection Interactive Mapping Tool		<input type="checkbox"/> RMO Forum		<input type="checkbox"/> Resource Catalogue/Campaign in a Box toolkit		<input type="checkbox"/> Education & outreach webinar		<input type="checkbox"/> Education & outreach community of practice		<input type="checkbox"/> Guidance materials (i.e., fact sheets, information bulletins, etc.)		<input type="checkbox"/> MOECC training (e.g., RMO/RMI certification; property entry)		<input type="checkbox"/> OMAFRA/OFEC information sessions		<input type="checkbox"/> Other. Please specify: _____		U	Number of municipalities responsible for implementing policies using source protection resources/tools/science to assist in the implementation of source protection plans within the first 3-5 years of plan implementation.	All (100%) municipalities responsible for implementing policies are using tools, resources, and science from conservation authorities, Conservation Ontario, and provincial ministries within the first 3-5 years of plan implementation.	S (#1, #2) M (#3, #5, #6, #9)
	Tools/Resources	Number of municipalities using each tool/resource																									
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<input type="checkbox"/> OMAFRA/OFEC information sessions																											
<input type="checkbox"/> Other. Please specify: _____																											
SPA	41	<p>[OPTIONAL]: Are there tools/resources that would be more useful if they were revised/modified?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, identify which one(s) and briefly describe how could they be improved for source protection?</p> <p>Reporting Frequency: Annually or when warranted</p>																									
Funding for Source Protection Implementation	SPA	42	<p>How many affected municipalities within the SPR/A recover costs (e.g., municipal taxes, water rates, RMP fees, etc.) or allocate staffing resources for source water protection-related business?</p> <p>RESPONSE:</p> <p>Reporting Frequency: One-time</p>	V	Percent of municipalities within SPR/As that recover costs or allocate staffing resources for source water protection.	All affected municipalities within SPR/As recover costs or allocate staffing resources for source protection.	S (#1, #2) M (#6) L (#10)																				


Reportable theme	Who ² compiles this info?	ID	Reportables	Performance Measures			Outcomes ³ (S, M, L)
				ID	Measure	Target/Trend	
Examples of successful municipal actions to protect source water	SPA	43	<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 SPA 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><u>RESPONSE:</u></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	44	<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><u>RESPONSE:</u></p>				
Reporting Frequency: Annually or when warranted							
Enumerated threats: progress made in addressing significant threats engaged in at time of SPP	SPA	45a	<p>In the table below, indicate 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. Lead SPAs will be maintaining a running tally of progress made in addressing significant threats that were on the ground before plans were approved. The running tally consists of the formula: A+B-C-D where:</p> <ul style="list-style-type: none"> • A = Original estimate of SDWT engaged in/enumerated when SPP approved • B = Additional SDWT identified after 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 	W	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	100% of significant drinking water threats that existed in the area when the SPP was approved and that have been addressed	M (#5, #6) L (#8, #10)

Reportable theme	Who ² compiles this info?	ID	Reportables				Performance Measures			Outcomes ³ (S, M, L)			
							ID	Measure	Target/Trend				
approval (i.e., enumerated as 'existing')			<p>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)</p> <ul style="list-style-type: none"> 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.) <p>Using the above formula for the running tally, complete the columns in the table with the information for each SDWT indicated as existing in the SPR/A:</p>					managed).	(i.e., eliminated or managed).				
			Threat ID	Prescribed Drinking Water Threat/Local Threat/Conditions	A	B					C	D	No. of threats remaining to be addressed (A+B-C-D)
			1	<input type="checkbox"/> The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> .									
			2	<input type="checkbox"/> The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.									
			3	<input type="checkbox"/> The application of agricultural source material to land.									
			4	<input type="checkbox"/> The storage of agricultural source material									
			5	<input type="checkbox"/> The management of agricultural source material									
			6	<input type="checkbox"/> The application of non-agricultural source material to land									
			7	<input type="checkbox"/> The handling and storage of non-agricultural source material									
			8	<input type="checkbox"/> The application of commercial fertilizer to land									
			9	<input type="checkbox"/> The handling and storage of commercial fertilizer									
			10	<input type="checkbox"/> The application of pesticide to land									
11	<input type="checkbox"/> The handling and storage of pesticide												

Reportable theme	Who ² compiles this info?	ID	Reportables						Performance Measures			Outcomes ³ (S, M, L)	
			ID	Measure	Target/Trend	ID	Measure	Target/Trend					
			12	<input type="checkbox"/> The application of road salt									
			13	<input type="checkbox"/> The handling and storage of road salt									
			14	<input type="checkbox"/> The storage of snow									
			15	<input type="checkbox"/> The handling and storage of fuel									
			16	<input type="checkbox"/> The handling and storage of a dense non-aqueous phase liquid									
			17	<input type="checkbox"/> The handling and storage of an organic solvent									
			18	<input type="checkbox"/> The management of runoff that contains chemicals used in the de-icing of aircraft									
			19	<input type="checkbox"/> The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard O. Reg. 385/08, s. 3.									
			20	<input type="checkbox"/> Water taking from an aquifer without returning the water to the same aquifer or surface water body									
			21	<input type="checkbox"/> Reducing recharge of an aquifer									
				<input type="checkbox"/> Local threat #1 (if applicable, please specify) _____									
				<input type="checkbox"/> Local threat #2 (if applicable, please specify) _____									
				<input type="checkbox"/> Local condition #1 (if applicable, please specify) _____									
				<input type="checkbox"/> Local condition #2 (if applicable, please specify) _____									
			TOTAL										
			Reporting Frequency: Ongoing (annually)										
	SPA	45b	Please provide comments to explain the overall progress made in addressing these significant threats in the box below. Where possible, include an estimated percentage of overall progress made in any comments below. (NOTE: This is intended to be the same as included in the Assessment Report Database.)										
			COMMENTS: 										
			Reporting Frequency: Ongoing (annually)										

Reportable theme	Who ² compiles this info?	ID	Reportables	Performance Measures			Outcomes ³ (S, M, L)
				ID	Measure	Target/Trend	
Assessment report information gaps (as per ss. 52(1), p. 2 of O. Reg. 287/07)	SPA	46	Provide a summary of steps taken to 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), if any. <u>RESPONSE:</u>	X	Number of SPA work plans that have been implemented to address information gaps in assessment reports.	All applicable SPAs work plans implemented.	S (#1, #2) M (#5, #7)
			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	47	Does the SPA have any other item on which it wishes to report? If so, please explain. <u>RESPONSE:</u>	N/A	No direct measure.	N/A	N/A
			Reporting Frequency: Annually when applicable				
Source protection outcomes	SPA	48	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. <u>RESPONSE:</u>	Y	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	49a	In the opinion of the Source Protection Committee (SPC), to what extent have the objectives of the SPP been achieved in this reporting period? <input type="checkbox"/> A+ Full extent (90-100%) <input type="checkbox"/> A Large extent (80-89%) <input type="checkbox"/> B Moderate extent (70-79%) <input type="checkbox"/> C Some extent (50-69%) <input type="checkbox"/> D Limited extent (0-49%)	Z	Percentage of SPCs indicating that the objectives of the source protection plan have been achieved to the full extent.	Increasing over time.	S (#1, #2) M (#4, #5, #6, #7) L (#9, #10)
	SPA	49b	Please provide comments to explain how the SPC arrived at its opinion, including if there was no clear consensus reached.				

Reportable theme	Who ² compiles this info?	ID	Reportables	Performance Measures			Outcomes ³ (S, M, L)
				ID	Measure	Target/Trend	
			<u>COMMENTS:</u>				
			<i>Reporting Frequency:</i> Ongoing (annually)				



Ministry of Environment and Climate Change, Source Protection Program Branch

**Guidance and Rationale:
Annual Progress Reporting Supplemental Form for
Source Protection**

Fall 2016

Guidance and Rationale: Annual Progress Reporting Supplemental Form for Source Protection

November 2016

The requirement for annual progress reporting is established in the *Clean Water Act* (CWA), 2006. Source Protection Authorities (SPA) are required to provide regular reports to the Ministry of the Environment and Climate Change (MOECC) in accordance with the regulations established under the *Clean Water Act*, 2006 and any Director's instructions established under O. Reg. 287/07. This regular reporting will consist of two items:

- Source Protection Annual Progress Report (a fillable template); and,
- Annual Progress Reporting Supplemental Form for Source Protection

Both items are prepared by the SPA and submitted to the Source Protection Programs Branch (SPPB) as per subsection 46(1) of the CWA. Collectively, the information generated from both the annual progress report and the supplemental form will provide valuable information about the implementation of source protection plans (SPP) and the overall success of the program.

For May 1, 2017, these items are due for Lakehead, Niagara, and Mattagami source protection areas.

In order to align with the number of unique SPPs approved by the Minister, there need only be one Annual Progress Report per unique plan. The majority of source protection regions developed one set of policies across their region, and thus need only prepare and submit one Annual Progress Report and Supplemental Form. Only the Annual Progress Report is to be publically available to satisfy the requirements under section 46 of the CWA and section 52 of O. Reg. 287/07. The Annual Progress Reporting Supplemental Form for Source Protection ("supplemental form") is a tool to collect key information about progress made across all SPAs in a reliable, consistent, and standardized manner.

To gather the information for the supplemental form, a series of "reportables", or key questions, are identified. In many cases, the answers to the reportables may come from information implementing bodies provide when responding to the monitoring policies included in SPPs, or from reports prepared by Risk Management Officials (RMO). Other times, additional information from implementing bodies will need to be compiled with the assistance of lead source protection authorities and the SPPB at MOECC.

As with the annual progress report, the supplemental form is also due to the SPPB by May 1st of any given year. The supplemental form is organized by themes. Some reportables are grouped into specific themes which mirror policy tools (i.e. prescribed instruments (PI), Land

Use Planning, etc.) and legislative requirements, while other reportables are grouped into broad themes (e.g., Municipal use of tools/resources, source protection knowledge and action, etc.). As well, some reportables are labeled “optional” (e.g. examples of positive success stories on the ground). A reporting frequency is also noted below each reportable to differentiate between those that may be a one-time reporting item, or ones that may be reported on for a limited time, or those that may be an ongoing (i.e., annual) reporting item.

In addition to the set of reportables in the supplemental form, the document also includes the performance measures, targets, and program outcomes to help convey the story of progress towards the full implementation of SPPs and, more broadly, the protection of drinking water sources. The performance measures, targets, and outcomes are shown in this document for *information purposes only* and SPAs are NOT responsible for conducting the analysis to determine the measure, target, and outcome that are achieved. Instead, this analysis will be done by the SPPB based on the responses submitted by SPAs on the reportables. Most reportables are associated with a performance measure and a target intended to achieve a short-, medium-, and long-term outcome. While the measure is intended to track progress on an annual basis, the target is the ultimate goal towards which each measure is striving to attain over time. The targets define what success looks like for the source protection program. There are a few reportables that do not have a corresponding performance measure associated with them for a variety of reasons including that the reportables are qualitative in nature or that they feed into other established measures. Collectively, the performance measures tell the story of progress.

The outcomes for the performance measures were developed by SPPB and MOECC’s Program Planning and Implementation Branch (PPIB). These outcomes are described in another supporting document titled “**Program Outcomes**” and graphically displayed and numbered in the **Program Logic Model** (also included as a separate supporting document) that was developed by SPPB and PPIB. 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 in the last column of the table below. The letters S, M, L are followed by a number in brackets that corresponds to the specific program outcome described in the program outcomes document and displayed in the program logic model.

The measures, targets, and outcomes are written in grey font to indicate that they are included in the supplemental form for information purposes.

In the summer and fall of 2015 and through to spring of 2016, SPPB consulted on the supplemental form with a variety of stakeholders including staff from other MOECC branches, other provincial ministries, the Municipal Working Group, a Project Manager Working Group, and all Chairs and Project Managers. The document reflects changes made as a result of the valuable feedback and comments received

from these groups. SPPB recognizes that as the program matures and evolves, it may be necessary to modify the supplemental form to better reflect the changing reporting needs and priorities of the source protection program.

Reportable Number	Guidance & Rationale
Reportable Theme: Monitoring Policy Implementation	
1a-1b	<ul style="list-style-type: none"> • Indicate if all implementing bodies (IBs) with report back obligations in Reportable #1a have provided information by checking either “Yes” or “No”. • Where monitoring policies are not being fulfilled, complete reportable #1b to document the reasons as given by the responsible reporting body(ies). Limit explanations to 200 words for this reportable. • Reportable #1b only applies to those IBs that are directly or explicitly asked to report back (through their monitoring policy) to the SPA with a status update on the implementation of their respective threat policies. IBs that are named in a threat policy, but which have no associated monitoring policy are not to be included or counted in this response. If an IB is named in a threat policy, but another body is asked to report back on actions taken on that same threat policy, then include the body that has to report back in the count. • This pair of reportables is designed to track the implementation of monitoring policies.
Reportable Theme: Implementation Status of SPP policies	
2a-2b	<ul style="list-style-type: none"> • Complete Tables 1, 2, and 3 to report the implementation status of all drinking water threat policies included in the approved SPP. • In reportable #2a, a unique threat policy is to be considered and counted as “Implemented” when action was taken and fully completed to meet the intent of the policy. If multiple policy tools are used to address any given threat, then if at least one policy tool is implemented, the threat can be considered addressed. Otherwise, the policy is to be considered as being in one of the other categories to which it corresponds in terms of its implementation status. • Complete the table in reportable #2b to report on any delays to implement any particular policy by a person or body by the date specified in a policy (required under ss51(1), O. Reg. 287/07). Limit explanations provided in the third column of the table to 200 words. Limit next steps or actions to be taken to support policy implementation to 200 words as well. • This set of reportables will track progress being made towards the full implementation of all SPP policies. The reportable and measure represent the overarching summary of plan policy implementation. • SPAs may use whatever tracking mechanism at their disposal to track the implementation status of their respective SPP policies. However, the implementation status of their respective policies need to be reported by threat type (i.e., significant, etc.) and by status (i.e., implemented, in progress/some progress made, not implemented, etc.) for each distinct policy listed and described in their SPP.

	<ul style="list-style-type: none"> Three tables have been included to report on the implementation status of significant, moderate-low, and the status of non-threat specific policies (i.e., general education & outreach, transport pathways, etc.) found in the SPPs. The information gathered through these tables represent a standardized way to report on progress made that will helpful for compliance and program review purposes.
Reportable Theme: Part IV (Section 57 – Prohibition, Section 58 – Risk Management Plan (RMP) & Section 59 – Restricted Land Uses)	
3a-3d	<ul style="list-style-type: none"> OPTIONAL: In reportable #3a, state the number of RMPs that were estimated to be required at the outset of the calendar year, where this information is known. The number reported should be based on the best available data. The number in reportable #3a should be provided if the information is readily available. It would set the context for the reportables that follow. The purpose of this reportable is to track progress made between the number of RMPs that were estimated to be required and how many RMPs were actually established during the reporting year. In reportable #3b, indicate the number of RMPs that were actually agreed to or established by the RMO. In reportable #3c, indicate the number of actual properties that are to be managed by RMPs. The results for reportables #3b and #3c are designed to track the number of RMPs that are established on associated properties/parcels to manage drinking water threat activities. These numbers may be obtained from the RMO. Based on the number of RMPs in place, indicate the number of existing significant drinking water threats that have been managed through the established RMPs in reportable #3d. It forms part of component “D” of the running tally concept to track drinking water threats that are being addressed. See reportable #45 of this guidance document for additional information.
4	<ul style="list-style-type: none"> OPTIONAL: Indicate what proportion of the measures (on average) that are included in a RMP are additional requirements (i.e., above and beyond what the person engaged in the activity was already doing). The purpose of this reportable is to get a sense of the added value of the RMP as a tool to address significant drinking water threat activities. In other words, are the risk management measures in the RMP ones that are already being undertaken by the landowner or are the measures in the RMP additional ones that the landowner is to adopt?
5	<ul style="list-style-type: none"> Indicate the number of notices that have been issued for land use restrictions in areas where neither section 57 nor section 58 policies apply and where only section 58 policies apply within the reporting period. This reportable will give an indication of the frequency by which these two types of notices are issued. The response to this question helps inform general compliance with this section of the CWA and may assist with program review if and where any insights are revealed.
6a-6b	<ul style="list-style-type: none"> For the purposes of section 61 of O. Reg. 287/07, state the number of times the RMO received notices from persons seeking an exemption from the requirement to establish a RMP for their drinking water threat activity(ies). This reportable may provide insight as to how often PIs are addressing a threat instead of the use of a RMP to manage the same threat activity(ies). Complete the table in reportable #6b to indicate the type of drinking water threat activity to which the statement(s) of conformity

	pertains, and include any comments, if necessary.
7a-7b	<ul style="list-style-type: none"> In reportable #7a, provide the total number of inspections, where known, that were carried out by a risk management inspector for activities prohibited under section 57 of the CWA. In reportable #7b, state the proportion of activities inspected that were deemed to be in contravention of section 57. This information is required under ss. 65(5), p. iv of O. Reg. 287/07, and may be obtained from the annual report that is prepared by the RMO.
8	<ul style="list-style-type: none"> Indicate the number of existing significant drinking water threats that have been prohibited through section 57 of the CWA. Reportable #8 will help track the number of overall threats that have been addressed as a result of the implementation of the section 57 prohibition policy, specifically. It is component “D” of the running tally concept to track drinking water threats that are being addressed. See reportable 45 of this guidance document for additional information.
9a-9c	<ul style="list-style-type: none"> In reportable #9a, state the total number of inspections that were conducted for activities subject to section 58 (i.e., RMP) of the CWA. Of the total inspections that are conducted as reported in #9a, state what proportion of the inspections showed cases of contravention with the requirement to establish a RMP (i.e., section 58) in reportable #9b(i). In reportable #9b(ii), state the proportion of inspections that showed cases of non-compliance with the terms and conditions as outlined in an established RMP that is of a non-administrative nature. This information is required under ss. 65(5), p. iii of O. Reg. 287/07, and may be obtained from the annual report that is prepared by the RMO. Reportable #9c elicits general information about what is done when cases of non-compliance with RMPs are found. This narrative will give us the assurance that compliance actions are being taken where infractions are found through inspections as per the legislation. They will demonstrate the added value of the work undertaken by risk management inspectors. The information provided through these reportables will assist with general compliance, program review, and status of plan implementation.
10	<ul style="list-style-type: none"> State the number of properties that had inspections undertaken for either section 57 or section 58 purposes. Since there is not always a one-to-one ratio between the number of inspections undertaken and the number of properties inspected, this reportable will help with adding context to the number of inspections that are undertaken annually on any number of subject properties.
11	<ul style="list-style-type: none"> OPTIONAL: Characterize the amount of any new or additional knowledge that is gained and shared by RMOs through their day-to-day work by choosing from amongst the descriptions provided in reportable #11. This new or additional knowledge may not always be directly related to the implementation of section 57 prohibition or section 58 RMP policies. This reportable may serve to illustrate the value-added knowledge/benefits that the RMOs bring to the communities they serve.

Reportable Theme: Prescribed Instruments – Integration and Conformity

NOTE: Information required to answer the set of prescribed instrument reportables in this section of the annual progress reporting supplemental form will be generated by each provincial ministry program area (i.e., waste disposal sites-landfilling and storage, wastewater/sewage, nutrient management, fuel storage (aggregate sites), etc. This is being collected in provincial PI monitoring policy reporting forms and will be shared with SPAs. The SPA should refer to those forms.

12	<ul style="list-style-type: none"> Complete the table by indicating the business process changes that have been adopted/are being adopted by the applicable provincial program areas to integrate source protection into their day-to-day business. This reportable is designed to acknowledge the actual means by which provincial ministries have prepared/are preparing to implement the applicable PI policies. The identification of specific business process changes illustrates the tangible ways in which source protection is being/has been integrated into the day-to-day ministry operations. Integration, for the purposes of this reportable, means that specific changes have been made to these provincial program areas as a direct result of source water protection. This reportable reveals how ministries have prepared/are preparing to implement plan policies.
13	<ul style="list-style-type: none"> Briefly describe the process that each ministry program area has put in place to review <i>incoming</i> applications for PIs for significant drinking water threat activities. This reportable elicits a description of the process that each ministry program area has established to review any <i>incoming</i> applications for PIs (new and amended) that may be subject to significant drinking water threat policies. This reportable confirms that a process is in place to ensure that all <i>new or amended</i> applications for PIs that may be subject to significant drinking water threat policies are screened such that the proposed activity is either prohibited or managed as per the applicable policy direction in the SPP.
14	<ul style="list-style-type: none"> Briefly describe the approach that each ministry program area is taking with respect to <i>incoming</i> PI applications (new and amended) for moderate and/or low drinking water threat activities. This reportable elicits a description of the approach that each ministry program area is taking to have regard to any moderate and/or low drinking water threat policies that rely on PIs.
15	<ul style="list-style-type: none"> Reportable #15 consists of a series of tables to document actions taken on <i>incoming</i> PI applications (new and amended) to locate drinking water threats. There is one table for each program area administered by each of the PI-issuing provincial ministries. The responses provided will quantify the actual number of applications that are received and on which a decision has been made to prohibit or manage a drinking water threat activity. Furthermore, the responses will serve as a check against whether new or amended applications are being appropriately screened. This reportable would also assist with tracking the number of significant drinking water threat activities that have been addressed through the implementation of policies, which is component “D” of the running tally formula. See reportable 45 of this guidance document for additional information.
16a-c	<ul style="list-style-type: none"> In reportable #16a, describe the process that may be in place for reviewing <i>previously issued</i> PIs which may be subject to significant drinking water threat policies. This reportable confirms that a process is in place to ensure that all <i>previously issued</i> PIs

	<p>are reviewed to conform with the applicable significant drinking water threat policies.</p> <ul style="list-style-type: none"> • Complete the relevant tables included in reportable #16b with counts of the type of actions taken (i.e., amended, no additional conditions needed, revoked) on previously issued PIs for the applicable provincial program areas to address existing significant drinking water threats in SPR/A associated with each unique SPP. There is one table for each program area administered by each of the PI-issuing provincial ministries. For the purposes of tracking progress in reviewing PIs issued before plans took effect and which are subject to significant drinking water threat policies, it is assumed that one PI corresponds to one significant threat activity. While this may not always be the case, and given the absence of field verification of these risks before plans were approved, it is assumed to be a reasonable surrogate for measuring progress in addressing enumerated risks over time. • Complete the table in reportable #16c to indicate overall progress made in the review of <i>previously issued</i> PIs that address existing significant drinking water threats on the landscape at the time of SPP approval. Specifically, it captures the proportion of significant drinking water threats addressed through PIs. The responses should show that an increasing number of decisions on PI are conforming with significant drinking water threat policies on a cumulative basis, with the goal of <i>all</i> previously issued PIs are conforming with the policies.
17	<ul style="list-style-type: none"> • Complete the table in reportable #17 by indicating the number of notices or PIs issued by the applicable ministries that satisfy the intent of the section 61 exemption of O. Reg. 287/07. Provide comments in the table to explain any of the reported results. Where the number of notices or PIs issued is “0” (zero) for the reporting year because none were required to be issued, then simply state as such in the comment box of the table. • This reportable is about understanding how often persons engaged in significant drinking water threat activities are getting an exemption from establishing a RMP for their activity that is subject to drinking water threat policies because the activity is already managed through a PI. NOTE: This reportable may only apply to those ministries that issue PIs under the <i>Safe Drinking Water Act, Pesticides Act, Nutrient Management Act or Aggregate Resources Act.</i>
18	<ul style="list-style-type: none"> • This reportable is to account for those PIs (i.e., nutrient management plans) that are not issued by a ministry. As such, this reportable seeks a brief description of the process that is in place or being put in place to ensure that such instruments do conform with any significant drinking water threat policies that may apply. • The inclusion of this reportable ensures that agricultural activities governed by such PIs are captured and being adequately addressed through a ministry review process. • This reportable is only applicable to the nutrient management plan that is issued under the <i>Nutrient Management Act.</i>
Reportable Theme: Prescribed Instruments – Inspections and Compliance	
19	<ul style="list-style-type: none"> • Provide a general description of how ministry staff involved with the inspection of PIs is being/have been trained in source protection. This training could take the form of online training, workshops, technical bulletins provided to inspectors, etc. • This training is expected to help ensure ministry staff involved in PI compliance also understand how source water protection is integrated into provincial instruments and the legal obligations established by the <i>Clean Water Act.</i>

20	<ul style="list-style-type: none"> • Provide a description of how source protection is factored into how ministries may be planning for and prioritizing the inspection of sites/facilities/farm units with PIs. • The response provided will meet the intent of some policies in approved SPPs concerning the prioritization of inspections and demonstrate that source protection is being integrated into ministries' inspection regimes to ensure source water risks are addressed.
21	<ul style="list-style-type: none"> • Provide a general description of how ministries ensure PI holders comply with their instrument. Since compliance is required with all terms and conditions in a PI, the general response provided should suffice, especially with understanding how cases of non-compliance are dealt with. • By documenting how each ministry ensures PI holders comply with their instrument, it is expected that all cases of non-compliance are dealt with and brought back into compliance in a timely manner.
Reportable Theme: Land Use Planning (LUP)	
22a-22b	<ul style="list-style-type: none"> • In reportable #22a, describe how the Ministry of Municipal Affairs (MMA) ensures their <i>Planning Act</i> decisions conform with the approved SPPs (specifically, the policies in List A – significant drinking water threat policies that affect decisions under the <i>Planning Act</i> and <i>Condominium Act</i>, 1998). • The purpose of reportable #22a is to ensure that where MMA may be 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 that municipalities are required to undertake, that the ministry ensures their <i>Planning Act</i> decisions conform with the approved SPPs. • In reportable #22b, describe other ways in which MMA may be integrating source protection considerations into business or operational processes. In the response provided, consider discussing any work being done to integrate source protection into other provincial land use plans that MMA administers and/or implements such as the Growth Plan for the Greater Golden Horseshoe, the Greenbelt Plan, etc. • The responses to these reportables are already provided in the non-PI monitoring policy reporting form that MMA completed and submitted as part of its monitoring policy reporting obligation. The SPPB will facilitate the collection of this reporting form and share it with the SPAs. The SPAs should refer to this MMA reporting form to complete this section.
23a-23b	<ul style="list-style-type: none"> • In reportable #23a, state the total count of municipalities that are subject to land use planning policies in the SPR/A. This first part is designed to set the context for the next part of the question. • In reportable #23b, indicate what proportion of the total number of municipalities have completed their Official Plan and Zoning By-law conformity exercises, how many have completed their exercise but are under appeal at the Ontario Municipal Board, how many are in the process of undertaking their conformity exercises, and the count of municipalities that have not begun their conformity exercises. • This set of reportables will help to track progress made on the implementation of land use planning policies by all applicable

municipalities. As such, it may be helpful for general compliance, plan implementation, and program review purposes.

Reportable Theme: Education & Outreach (E&O)

24a-24b

- In reportable #24a (i), identify all the methods used by all applicable implementing bodies to execute their respective E&O policies (e.g., websites, videos, podcasts, etc.).
- Indicate the methods used (e.g., social media, site visits, traditional advertising, etc.) to conduct outreach activities within the SPR/A to reach target audiences in reportable #24a (ii).
- In reportable #24b, determine and indicate the estimated percentage of the target audience reached through the implementation of all E&O policies in the SPP that require the distribution/dissemination of information. Depending on the specific E&O policy, the target audience may range from the general public to specific property owners or facilities. Regardless of the target audience, this reportable will serve as an indicator of the reach of the E&O policies.
- Calculate and report the mean percentage in cases where the SPA has any number of percentages being reported by implementing bodies and the data is not skewed in one direction or another. An example of a group of numbers that are not skewed would be: 25, 25, 30, 35.
- Calculate and report the median percentage in cases where the SPA has four or more percentages being reported by implementing bodies in terms of target audience reached and the data is strongly skewed in direction or another. An example of a group of numbers that are strongly skewed would be: 0, 0, 20, 100.
- To report either the mean or the median percentages, the data must be compiled and then calculated from all reporting implementing bodies with E&O policy obligations. PI
- For further guidance, SPAs (and implementing bodies) should consult the tools/resources that may be available to them through the Community of Practice for E&O. MOECC’s Drinking Water Programs Branch may also offer guidance on how to determine the reach of E&O policies.
- The act of sharing knowledge and awareness-raising about source protection is the critical first step in bringing about behavioural changes. As such, this reportable will be critical in understanding how knowledge and awareness-raising efforts were undertaken to reach the intended audiences.
- Where E&O is being conducted by provincial ministries, the responses to reportable #24a-b may be provided in the non-PI monitoring policy reporting forms that provincial ministries with E&O policies complete and submit as part of their monitoring policy reporting obligations. The SPPB will facilitate the collection of these reporting forms and share them with the SPAs. The SPAs should refer to these forms to help complete this section of the annual progress reporting supplemental form. Other public bodies with E&O policy implementation obligations are expected to report to the SPAs directly. In the provincial monitoring policy reporting forms, SPAs will need to look for where reportable #24 is noted in the right hand columns to find the link to this corresponding reportable.

25	<ul style="list-style-type: none"> Identify the specific drinking water threat(s) or more general threats the E&O policies targeted within a SPR/A. The threat(s) addressed will underscore the importance and contribution of E&O policies. Where E&O is being conducted by provincial ministries, the response to reportable #25 may be provided in the non-PI monitoring policy reporting forms that provincial ministries with E&O policies complete and submit as part of their monitoring policy reporting obligations. The SPPB will facilitate the collection of these reporting forms and share them with the SPAs. The SPAs should refer to these forms to help complete this section of the annual progress reporting supplemental form. Other public bodies with E&O policy implementation obligations are expected to report to the SPAs directly. In the provincial monitoring policy reporting forms, SPAs will need to look for where reportable #25 is noted in the right hand columns to find the link to this corresponding reportable.
26	<ul style="list-style-type: none"> OPTIONAL: Showcase/highlight particularly successful examples of E&O initiatives. Use the space provided to indicate the target population, the proportion of them reached, describe any outcomes that were achieved, and whether it was an initiative that was limited to where significant threats exist or to the larger SP area as a whole. Where such examples are provided, they may be used as vignettes in the Minister’s annual report on drinking water. They may also be used as noteworthy initiatives for other source protection authorities to emulate and/or from which lessons can be learned in terms of best practices. Where E&O is being conducted by provincial ministries, the response to reportable #26 may be provided in the non-PI monitoring policy reporting forms that provincial ministries with E&O policies complete and submit as part of their monitoring policy reporting obligations. The SPPB will facilitate the collection of these reporting forms and share them with the SPAs. The SPAs should refer to these forms to help complete this section of the annual progress reporting supplemental form. Other public bodies with E&O policy implementation obligations are expected to report to the SPAs directly. In the provincial monitoring policy reporting forms, SPAs will need to look for where reportable #26 is noted in the right hand columns to find the link to this corresponding reportable.
Reportable Theme: Signage	
27a-27c	<ul style="list-style-type: none"> Indicate the number of source protection signs that have been installed on provincial highways, municipal roads, as well as at any other location with the SPR/A. The signage reportables help to track the number of signs that have been installed on both provincial highways, municipal roads, as well as on any other locations as a measure to raise awareness. The numbers provided in the responses provide an indication of how widespread the source protection signs are across the various source protection regions/areas. The response to reportable #27a (and potentially reportable #27c) will be provided in the Ministry of Transportation’s non-PI monitoring policy reporting form. The SPPB will facilitate the collection of this reporting form and share it with the SPAs. The SPAs should refer to this form to complete this section of the annual progress reporting supplemental form. The municipalities will be

	responsible for providing responses to reportables #27b and potentially reportable #27c.
Reportable Theme: Source protection knowledge and action	
28a-28b	<ul style="list-style-type: none"> • In reportable #28a, indicate if surveys were conducted by source protection authorities to specifically gauge knowledge gained about source protection and any commitments made amongst the respondents to adopt behaviours that are protective of source water. • Complete the table in reportable #28b if surveys were conducted and the results are available. In the table, identify the name or number of the survey, the survey population targeted, and the results of the survey that specifically speaks to knowledge gained and commitment(s) made to taking and/or maintaining actions that protect source water. • Where surveys are conducted to gauge source protection knowledge and action, SPAs are encouraged to consider using the same questions as used in these reportables in their respective questionnaires so that results can easily be reported. • Any results that are reported and described through this pair of reportables will serve as an indication to determine if the message of source protection is getting through the intended target audiences. As such, this information may be useful for program review purposes in terms of linking between source protection knowledge and action.
Reportable Theme: Incentives	
29-30	<ul style="list-style-type: none"> • If applicable to the SPR/A, complete the table in reportable #29 to describe the implementation of incentive policies and other incentives beyond SPP policies. In the table, indicate the following: (i) the type of incentive (e.g., PI application fees waived, funding, other non-financial incentives, etc.) provided, (ii) the name of the body (i.e., source) providing or making available the incentive, (iii) the drinking water threat(s) that it is being used to address, (iv) the degree to which the incentive assisted with the implementation of plan policies that address significant drinking water threats, and (v) include any brief comments that might help with explaining the responses provided in any of the four preceding columns. • OPTIONAL: Highlight an incentive program(s) that was particularly beneficial and/or successful in terms of achieving the intended outcomes, or the degree of its availability to achieve the outcome(s) in reportable #30. • The rationale for this set of reportables is that the responses may provide insight into the role and effectiveness of incentives in addressing significant drinking water threats. • The response to these reportables may already be provided in the non-PI monitoring policy reporting forms that provincial ministries complete and submit as part of their monitoring policy reporting obligations. The SPPB will facilitate the collection of these reporting forms and share them with the SPAs. The SPAs should refer to these forms to complete this section of the annual progress reporting supplemental form. Other public bodies with incentive policy implementation obligations are expected to report to the SPAs directly. In the provincial monitoring policy reporting forms, SPAs will need to look for where reportables #29-#30 are noted in the right hand columns to find the link to these corresponding reportables.
Reportable Theme: Provincial ministry integration of source protection (beyond PIs)	

<p>31</p>	<ul style="list-style-type: none"> Reportable #31 is a placeholder for SPAs to indicate other provincial ministry program areas (beyond PIs) that may be integrating source protection considerations into their business or operational processes as a result of the available science associated with source protection. The rationale here is to gain an appreciation of the impact of the science and technical work of the source protection program on other relevant government program areas. The response to this reportable may be provided in the non-PI monitoring policy reporting forms that provincial ministries complete and submit as part of their monitoring policy reporting obligations. The SPPB will facilitate the collection of these reporting forms and share them with the SPAs. The SPAs should refer to these forms to complete this section of the annual progress reporting supplemental form. In the provincial monitoring policy reporting forms, SPAs will need to look for where reportable #31 is noted in the right hand columns to find the link to this corresponding reportable.
<p>Reportable Theme: Sewage System Inspections – Ontario Building Code (OBC)</p>	
<p>32a-32c</p>	<ul style="list-style-type: none"> In reportable #32a, state the total number of on-site sewage systems that are required by the Ontario Building Code (OBC) to be inspected within the SPR/A. In reportable #32b, indicate the number of systems that have been inspected in accordance with the OBC (i.e. once every 5 years). In reportable #32c, indicate what proportion of those on-site sewage systems inspected required minor and/or major maintenance work. This reportable confirms that mandatory inspections are being conducted on all identified on-site sewage systems that pose a significant threat to drinking water as per the policies in SPPs.
<p>Reportable Theme: Environmental monitoring for drinking water issues</p>	
<p>33</p>	<ul style="list-style-type: none"> If applicable to the SPR/A, complete the table in reportable #33 about drinking water issue(s) that have been identified within the SPR/A. In particular, identify the name of the drinking water system(s), the issue(s), whether it has been delineated, and an indication of whether there has been any change in the concentration(s)/trend(s) from sampling data. The SPR/A may choose to note any actions or behavioural changes that might be contributing to any observed changes (i.e., increasing/decreasing) in the concentration(s)/trend(s) of the drinking water issue(s), if available. This reportable will reveal changes over time, if any, in the drinking water issue(s) as a measure of water quality within their SPR/A. More broadly, the annual sampling of the identified issue(s) may indirectly indicate if plan policies are having an impact.
<p>Reportable Theme: Drinking water surveillance environmental monitoring</p>	
<p>34</p>	<ul style="list-style-type: none"> OPTIONAL: If there are participating municipal drinking water systems in the province’s Drinking Water Surveillance Program (DWSP), then complete the table with the specified details, if data is available. This reportable is an opportunity for source protection regions/areas to share the results of the monitoring of parameters in raw/untreated water at their municipal drinking water systems that are participating in the DWSP.

	<ul style="list-style-type: none"> This reportable will reveal changes over time, if any, on any monitored parameters as a measure of their water quality within the SPR/A.
Reportable Theme: Transport pathways	
35a-35b, 36	<ul style="list-style-type: none"> If applicable to the SPR/A, state the number of notices in reportable #35a that the SPA received from municipalities to inform them about proposals to engage in activities that may create a new transport pathway or that may modify an existing transport pathway. As per O. Reg. 287/07, ss 27(3), municipalities are expected to provide notices to both the SPA and the source protection committee (SPC) whenever a proposal is received to undertake activities that may either create a new transport pathway or modify an existing one. In reportable #35b, describe actions taken, if any, by the SPA upon the receipt of these transport pathway notices from municipalities. For example, did the SPA indicate that it would change the vulnerability of a drinking water system, etc. OPTIONAL: Reportable #36 seeks information about the specific types of actions that have been taken by any person or body to reduce impacts that transport pathways have on source water. The rationale for this set of reportables is that it may provide some insight into what types of actions are being taken on transport pathways and into the overall effectiveness of transport pathway policies in SPPs.
Reportable Theme: Positive impact examples for each of the policy tools or topics (Road salt management, transport pathways, spills response, water quantity, Great Lakes, and any "other" policy)	
37	<ul style="list-style-type: none"> OPTIONAL: Use the table provided in reportable #37 to describe any successful initiatives/actions related to each of the policy tools or topics listed in the table of this reportable, where applicable to the SPR/A. Limit the descriptions to exceptional examples. This reportable should not be confused with responding to whether these policies, if and where applicable to the SPR/A, are being implemented. Instead, it is an opportunity to highlight success stories stemming from the implementation of policies such as those listed. Any examples that are provided by SPAs may be used as vignettes in public reporting on source protection. It is an opportunity to highlight success stories for others to emulate and from which lessons may be learned and shared. The response to this reportable may be provided in the non-PI monitoring policy reporting forms that provincial ministries complete and submit as part of their monitoring policy reporting obligations. The SPPB will facilitate the collection of these reporting forms and share them with the SPAs. The SPAs should refer to these forms to complete this section of the annual progress reporting supplemental form. In the provincial monitoring policy reporting forms, SPAs will need to look for where reportable #37 is noted in the right hand columns to find the link to this corresponding reportable. SPAs will need to look at the status reports from other public bodies to find non-provincial examples of successful initiatives/actions related to each policy tools or topics. Please cross reference any <i>municipal</i> examples to reportable #43 and any <i>residential/business</i> examples to reportable #44, if applicable.
Reportable Theme: Municipal integration of source protection	

<p>38a-38c, 39</p>	<ul style="list-style-type: none"> • In reportable #38a, provide the count of all municipalities within the SPR/A that are subject to any of the policies in the SPP (i.e., Land Use Planning, E&O, Specify Action, etc.). Be sure to include municipalities, regardless of municipal status (i.e., lower-tier, upper-tier, single-tier). The response to this question sets the context for the reportables that follow. • In reportable #38b, indicate the proportion of the total number of municipalities (as stated in reportable #37a) that are integrating source protection requirements into their land use planning and building permit program areas. Integration, for the purposes of this reportable, means that specific changes have been made to these municipal program areas as a direct result of source water protection (i.e., OP/ZBL amendments made/being made, the inclusion of source protection in development and building permit application forms, etc.). • Complete the table in reportable #38c by indicating the number of subject municipalities that are integrating source protection into any of the listed business process measures in the table provided. The specific listed measures illustrate the tangible ways in which source protection is being/has been incorporated into day-to-day municipal business practices. It is understood that not all listed business processes may necessarily be applicable to each municipality. Use best available information to complete this table with the count of municipalities for each business process. • Reportable #38c is similar to the one that asks provincial ministries to identify the measures taken to integrate source protection into their own business processes for PIs. This reportable may reveal how municipalities have prepared/are implementing plan policies. • To complete the table in reportable #38c, SPAs may choose to survey all affected municipalities on business process changes that have been made to help them implement source protection requirements into their day-to-day business processes as they relate to land use planning and building permits. Where surveys are conducted, the SPAs are encouraged to use the same business process listing as appears in reportable #37c to ensure they are getting responses that match the ones in the table. • In reportable #39, state the count of municipalities that have integrated/are integrating source protection into various municipal program areas/activities (i.e., snow storage, hazardous waste storage, municipal well maintenance, etc.). Integration, for the purposes of this reportable, means that specific changes have been made to these municipal program areas as a direct result of source water protection. The counts provided in this reportable are meant to capture instances where source protection knowledge and science is being integrated into municipal operations that go beyond legal obligations to do so. In other words, where else is the science of source protection being adopted or influencing municipal operations more broadly?
<p>Reportable Theme: Municipal use of tools/resources</p>	
<p>40, 41</p>	<ul style="list-style-type: none"> • Indicate which tools/resources for source protection are being used to assist with plan implementation by checking the box beside each listed tool/resource. Also, for each tool/resource that is being used, provide the count of municipalities that are utilizing each of the listed tools/resources in reportable #40 using best available information. • OPTIONAL: Complete reportable #41 with any suggestions to improve the resources provided in any way necessary to increase their uptake or usefulness. This reportable is optional for source protection authorities to complete. • The statistics provided in reportable #40 will provide an indication of how extensively the various tools/resources are being used

	<p>to aid in the implementation of SPP policies. It may also reveal which tool(s)/resource(s) are most commonly used amongst the municipalities. To complete the table in reportable #40, SPAs may choose to survey all affected municipalities on their use of the tools/resources for source protection. Where surveys are conducted, the SPAs are encouraged to use the same listing as appears in the table in reportable #39 to ensure they are getting responses that mirror the ones in the table.</p>
<p>Reportable Theme: Funding for Source Protection Implementation</p>	
<p>42</p>	<ul style="list-style-type: none"> • State the number of municipalities that recover costs associated with the implementation of source protection through municipal taxes, water rates, or other means. In this count, also include the count of municipalities that allocate staff resources for source protection purposes. • To obtain the response to this reportable, the SPAs may choose to survey all affected municipalities to determine the funding and supports provided for source protection implementation within their respective jurisdictions. • This reportable is designed to acknowledge the various sources through which plan implementation is being funded and supported amongst the affected municipalities.
<p>Reportable Theme: Examples of successful municipal actions to protect source water</p>	
<p>43</p>	<ul style="list-style-type: none"> • <i>OPTIONAL</i>: Provide the details of any exemplary actions taken by municipalities, if and where known, to protect source water. Limit the description of actions taken to one example. • To obtain the response to this reportable, the SPAs may choose to survey all affected municipalities for any exemplary actions taken to protect source water within their respective jurisdictions. • This optional reportable is another opportunity to showcase particularly successful examples of municipal actions that have been/are being taken to protect source water because of plan policy direction and/or as a result of a broader integration of the science of source protection. • The responses provided, if any, may be considered as candidates for vignettes in public reporting on source protection. It is an opportunity to highlight success stories for others to emulate and from which lessons may be learned and shared. • Please cross reference any <i>municipal</i> actions highlighted in reportables #37, if applicable.
<p>Reportable Theme: Examples of successful residential or business actions to protect source water</p>	

<p>44</p>	<ul style="list-style-type: none"> • OPTIONAL: Provide the details of any exemplary actions taken by residents or businesses (either as individual actions or as a group) to protect source water. Limit the description of actions taken to one example. • To obtain the response to this reportable, the SPAs may choose to survey all affected municipalities for any exemplary actions taken by residents or businesses to protect source water within their respective jurisdictions. • The responses provided, if any, may be considered as candidates for vignettes in public reporting on source protection. It is an opportunity to highlight success stories for others to emulate and from which lessons may be learned and shared. • Please cross reference any <i>residential/business</i> actions highlighted in reportable #37, if applicable.
<p>Reportable Theme: Enumerated threats: Progress made in addressing significant threats engaged in at time of SPP approval (i.e., enumerated as existing)</p>	
<p>45a-45b</p>	<ul style="list-style-type: none"> • To complete the table in reportable #45a, first identify which of the listed 21 prescribed drinking water threat activities along with any applicable/relevant local threats and conditions were being engaged in at the time of the approval of the SPP. Second, complete columns A through D by providing the counts of enumerated existing significant drinking water threats for each identified prescribed drinking water threat that have been added (column B), removed (column C), addressed (column D), as well as those that remain to be addressed. This count information will be used to calculate the running tally (A+B-C-D) of enumerated threats in the SPR/A. <ul style="list-style-type: none"> ○ For component “D” (i.e., a significant drinking water threat is addressed because a policy is implemented) of the running tally, where multiple policy tools apply to one threat subcategory, implemented means that actions associated with at least one policy tool have been completed/are in place. • Provide any comments in reportable #45b to explain or to provide additional context for the counts noted in reportable #44a. For the accurate completion of the table of existing enumerated threats, the Assessment Report Database, a web-based platform, which is known to the SPAs, will be amended to capture the elements of the table to ease reporting. A pilot project to continue the threats enumeration exercise is under discussion to facilitate related to reportable #44a. Staff at SPPB are working to design the current data structure to meet some of the needs of annual progress reporting. Several PMs and GIS staff have indicated a willingness to support the pilot with the intent of designing a bulk upload of information that can be generated from local data collection exercises. • This is a critical reportable in that it answers the key question about existing threats being addressed over time. It complements the tracking of threats as expressed through the running tally concept and the assessment report database.
<p>Reportable Theme: Assessment report information gaps (as per ss. 52(1), p. 2 of O. Reg. 287/07)</p>	
<p>46</p>	<ul style="list-style-type: none"> • In this reportable, describe the steps taken to implement the work plans in technical rules #30 (Water Budget Tier 3), #50.1 (GUDI for WHPA-E or F), and #116 (ICA) for your assessment, if any. • The rationale for this reportable is to ensure that any technical work identified in the work plans included in the assessment

	reports as per the technical rules noted above are being implemented.
Reportable Theme: Other reporting items (as per ss. 52(1), p. 4 of O. Reg. 287/07)	
47	<ul style="list-style-type: none"> • Report on any other source protection-related items not already captured elsewhere in the reporting form. • This reportable is an opportunity for the SPAs to provide information on any additional actions taken for source protection.
Reportable Theme: Source protection outcomes	
48	<ul style="list-style-type: none"> • Provide a description of positive outcomes that have potentially resulted from the collective implementation of plan policies. Some specific examples are included in the reportable but the response need not be limited to these examples. • SPPB readily acknowledges the difficulty with directly attributing the work of source protection to the achievement of any specific desired outcomes for drinking water. However, despite the limited ability to draw a direct correlation between the implementation of SPP policies and positive outcomes, source protection may still be a contributing factor towards the achievement of positive drinking water outcomes over the long-term. As such, it is expected that responses to this question will be based on the professional opinion of the staff working closely on source protection within each source protection area.
Reportable Theme: Achievement of SPP objectives (as per ss. 46(3) of the <i>Clean Water Act</i>)	
49a-49b	<ul style="list-style-type: none"> • In reportable #49a, select from amongst the options provided to indicate the extent to which the objectives of the SPP have been achieved. This reportable invites the SPC, upon receipt of the annual progress report and prior to the submission to the Director of the Source Protection Programs Branch, to render their opinion. The SPC may base their opinion on the responses contained and submitted in the annual progress reporting supplemental form as well as on any other reporting and tracking that may be done for source protection. • In recognition of the fact that opinion within the SPC may be split on the achievement of the SPP objectives, use reportable #49b to elaborate on how the SPC arrived at its opinion including where there was no clear consensus reached amongst the members. • Aside from being a requirement under the CWA, this reportable caps off the reporting done through this form by having the SPC provide an overall assessment of progress that has been/is being made towards the ultimate goal of all policies being implemented with the objectives of the plan being met to the full extent.

QUESTIONS AND COMMENTS?

Questions and/or comments on the annual progress reporting supplemental form may be directed to the following staff at the MOECC's Source Protection Program Branch:

Staff Name	Position	Contact Information
Michael Halder	Research and Planning Analyst	Michael.halder@ontario.ca
Neil Gervais	Senior Drinking Water Program Advisor	Neil.gervais@ontario.ca
Debbie Scanlon	Manager	Debbie.scanlon@ontario.ca
Mary Wooding	Liaison Officer	Mary.wooding@ontario.ca
Beth Forrest	Liaison Officer	Elizabeth.forrest@ontario.ca

Annual Progress Reporting for Source Protection

PROGRAM OUTCOMES

(Short-, Medium-, and Long-term)

Note: The outcomes numbered (1-10) and described below are graphically displayed in the program logic model.

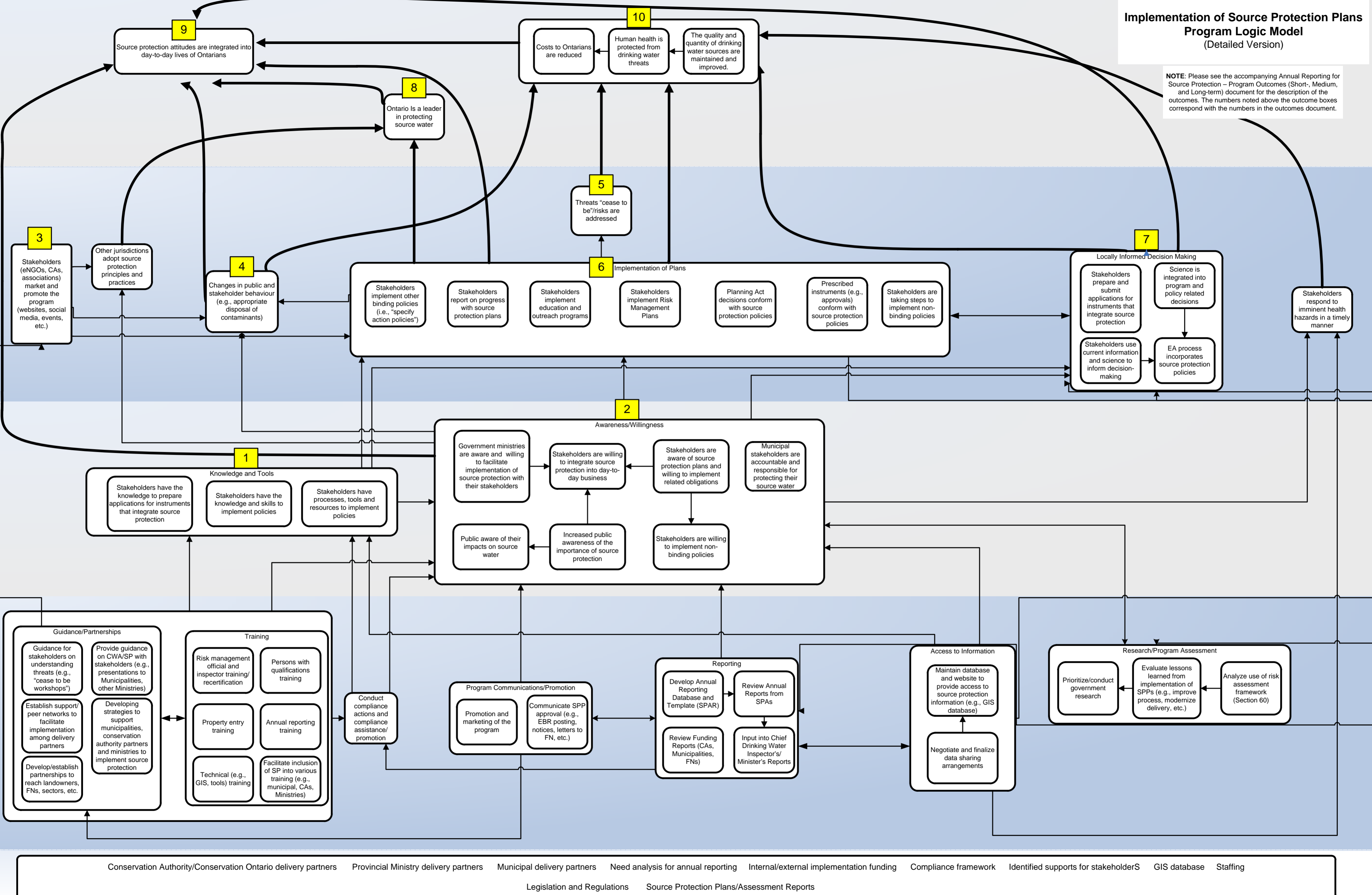
Program Outcomes	Description
SHORT-TERM OUTCOMES	
1. Knowledge & Tools	<ul style="list-style-type: none"> • Stakeholders have the knowledge and skills to implement policies. • Stakeholders have processes, tools and resources to implement policies. • Stakeholders have the knowledge to prepare applications for instruments that integrate source protection.
2. Awareness & Willingness	<ul style="list-style-type: none"> • Government ministries are aware of and willing to facilitate implementation of source protection with their stakeholders. • Stakeholders are willing to integrate source protection into day-to-day business. • Stakeholders are aware of source protection plans and willing to implement related obligations. • Stakeholders are willing to implement non-binding policies. • Increased public awareness of source protection. • Public aware of their impacts on source water. • Municipal stakeholders are accountable and responsible for protecting their source water.
MEDIUM-TERM OUTCOMES	
3. Stakeholder Promotion	<ul style="list-style-type: none"> • Municipalities, provincial ministries, conservation authorities, environmental non-governmental organizations, associations, and others use a variety of methods (e.g., websites, social media, events, signage, etc.) to raise awareness and promote source protection.
4. Changes in Public and Stakeholder Behaviour	<ul style="list-style-type: none"> • Stakeholders including the public display positive changes in behaviour as a result of knowledge that is acquired about source protection (e.g., the public ensures the appropriate disposal of contaminants; proponents do not submit applications for new activities that are prohibited, etc.).
5. Threats Cease To Be	<ul style="list-style-type: none"> • Plan policies have been implemented to address significant drinking water threats.
6. Implementation of Plans	<ul style="list-style-type: none"> • Stakeholders implement Risk Management Plans. • Prescribed instruments conform with source protection policies. • <i>Planning Act</i> decisions conform with source protection policies. • Stakeholders implement other binding policies (i.e., specify action, etc.). • Stakeholders implement Education & Outreach programs. • Stakeholders are taking steps to implement non-binding policies. • Stakeholders report on progress with source protection plans.
7. Locally Informed Decision-making	<ul style="list-style-type: none"> • Science is integrated into policy and program-related decisions. • Environmental Assessment process incorporates source protection policies. • Stakeholders use current information and science to inform decision-making. • Stakeholders prepare and submit applications for instruments that integrate source protection.
LONG-TERM OUTCOMES	

Program Outcomes	Description
8. Ontario is a leader in Protecting Source Water	<ul style="list-style-type: none"> • Through the enactment of the <i>Clean Water Act</i>, the development and use of source protection plans, assessment reports, education and outreach materials, business process changes, among other actions for source protection, the Province of Ontario is acknowledged and recognized by other jurisdictions as a leader in source protection. • Technical studies increase understanding of source water vulnerabilities and can be used in broader applications by various stakeholders.
9. Integration of Source Protection Attitudes into the Day to Day Lives of Ontarians	<ul style="list-style-type: none"> • Through a combination of knowledge, awareness, and behavioural changes, source protection attitudes are integrated into the daily lives of Ontarians including by all stakeholders.
10. Human Health is Protected from Drinking Water Threats	<ul style="list-style-type: none"> • As a result of the combined actions taken to protect existing and future sources of drinking water by all stakeholders including the public, human health is further protected.

Implementation of Source Protection Plans Program Logic Model (Detailed Version)

NOTE: Please see the accompanying Annual Reporting for Source Protection – Program Outcomes (Short-, Medium, and Long-term) document for the description of the outcomes. The numbers noted above the outcome boxes correspond with the numbers in the outcomes document.

Long-term Outcomes
Medium-term Outcomes
Short-term Outcomes
Activities/Outputs
Inputs

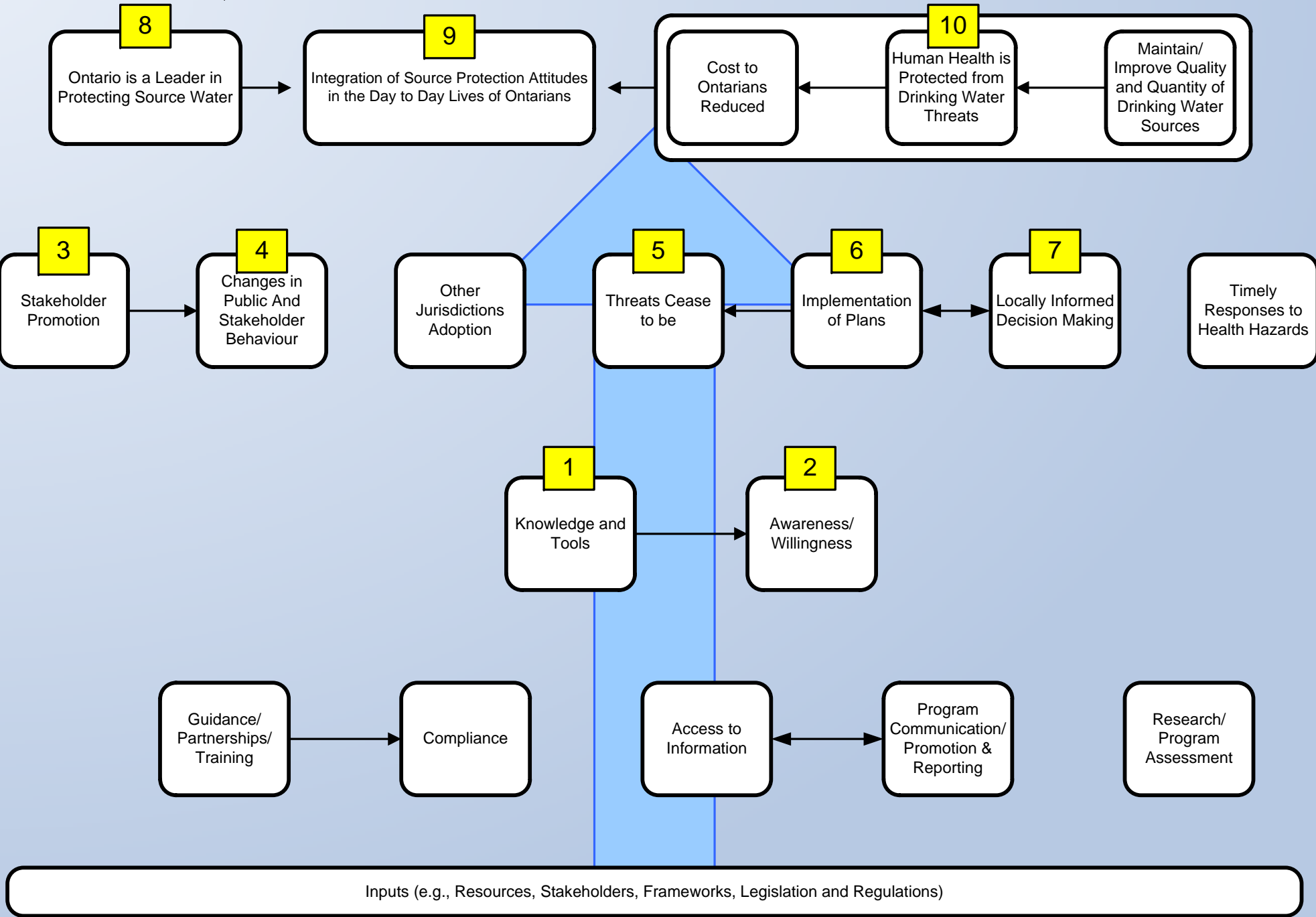


Conservation Authority/Conservation Ontario delivery partners Provincial Ministry delivery partners Municipal delivery partners Need analysis for annual reporting Internal/external implementation funding Compliance framework Identified supports for stakeholderS GIS database Staffing

Legislation and Regulations Source Protection Plans/Assessment Reports

Implementation of Source Protection Plans Program Logic Model (High-Level Version)

Long-term Outcomes
Medium-term Outcomes
Short-term Outcomes
Activities/Outputs
Inputs



NOTE: Please see the accompanying Annual Reporting for Source Protection – Program Outcomes (Short-, Medium, and Long-term) document for the description of the outcomes. The numbers noted above the outcome boxes correspond with the numbers in the outcomes document.

Annual Progress Reporting for Source Protection

Municipal Annual Report
Spreadsheet Version 2.0

Source Protection Area

Grand River Source Protection Area



Name of Municipality

Wellington County



Name of Municipal Staff Contact

Email Address of Municipal Staff Contact

Submitted by (name of organization)

Submitted by (name of individual)

Email Address of Submitter

Reporting Period

Date From

Date To

Date of Submission

2a Complete the tables below to indicate the implementation status of municipal policies in the SPP.

Table 1: Implementation status of policies that address significant drinking water threat activities

Implementation Status Category	Percentage of Plan Policies
Implemented*	0%
In progress / some progress made	0%
Not implemented / no progress made	0%
Not applicable	0%
Total	0%

Total should equal 100%!

* The term "implemented" means that action was taken and fully completed.

Table 3: Implementation status of municipal policies (i.e., transport pathway, general E&O, some specify action etc.) not directly associated with addressing specific drinking water threat activities

Implementation Status Category	Percentage of Plan Policies
Implemented*	0%
In progress / some progress made	0%
Not implemented / no progress made	0%
Not applicable	0%
Total	0%

Total should equal 100%!

* The term "implemented" means that action was taken and fully completed.

2b Where a percentage of policies is recorded as being "Not implemented / no progress made", please complete the table below with the following details. Repeat rows as needed.

Policy ID	Explanation of why actions were not taken	Outline next steps to ensure implementation

3d How many existing* significant drinking water threats have been managed through the established RMPs? (* meaning engaged in OR enumerated as existing significant risks at the time of SPP approval)

--

5 How many section 59 notices were issued in this reporting period for:

(i) activities to which neither a prohibition (section 57) nor a risk management plan (section 58) policy applied, as per ss. 59(2)(a) of the CWA	
---	--

(ii) activities to which a risk management plan (section 58) policy applied, as per ss. 59(2)(b) of the CWA	
---	--

8 How many *existing* significant drinking water threats have been prohibited as a result of section 57 prohibitions?

--

9b (ii) Of the inspections (including any follow-up site visits) that were carried out for activities that require a risk management plan under section 58 of the *Clean Water Act*, 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.)

--

9c Where there were cases of non-compliance with RMPs, describe, in general terms, how these cases were resolved?

--

23b

Please check all that apply:

- (i) Completed OP conformity exercise
- (ii) Completed ZBL conformity exercises
- (iii) Completed OP conformity exercise but under appeal
- (iv) Completed ZBL conformity exercise but under appeal
- (v) OP conformity exercise in process
- (vi) ZBL conformity exercise in process
- (vii) Not started OP conformity exercise
- (viii) Not started ZBL conformity exercise

24a (i) By what methods are/have E&O policies being/been implemented to raise knowledge and awareness about source water protection in your municipality? Please check all that apply.

- Development and distribution of educational materials for general public
- Development and distribution of educational materials for target audiences including developers, builders, landowners, farmers, etc.
- In-person workshops
- Site visits
- Source protection content for websites
- Educational videos (e.g., YouTube)
- Podcasts
- Collaboration with other bodies (e.g., ministries, local organizations, etc.)
- Other: Please specify:

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? Please check all that apply.

- Social media promotion (e.g., use of Facebook, Twitter, Instagram, etc.)
- Traditional media advertising (e.g., print media, radio, television)
- Site visits
- Integration with other outreach programs or campaigns (e.g., Community Environment Days, etc.)
- Articles in publications
- Information kiosks at events/festivals
- Other: Please specify:

24b What is the average estimated percentage of the target audience reached by all applicable E&O policies (i.e., E&O policies which require the distribution of information) in the SPP?

27b How many signs have been installed on municipal roads in the municipality during the reporting period (for the first report include any signs that may have been installed prior to the reporting period)?

27c Were signs installed at other locations in the municipality?

Yes

No

If yes, please explain below:

28a (i) Has the municipality conducted surveys to gauge source protection knowledge and action?

Yes

No

(ii) If yes, which population group(s) did the survey(s) target?

28b Where survey(s) were conducted by the municipality, discuss the results including, where possible and available, any insights gained about source protection knowledge and any commitment made to changing behaviour that is protective of source waters.

29 If applicable, complete the table below indicating the type of incentive(s) that was made available (whether as a policy in the SPP or not), the source that provided the incentive(s), the prescribed drinking water threat activity(ies) to which it relates, the degree to which the incentive(s) assisted with the implementation of SPP policies that address significant drinking water threat activity(ies), and any comments. Repeat rows as necessary in the table below.

Type of Incentive	Source of Incentive (i.e., Municipality, Conservation Authority, Provincial Ministry(ies), Other (please specify))	Prescribed Drinking Water Threat	Degree to which incentive(s) assisted with the implementation of SPP policies. (Put an "x" in the correct box)		Comments
			<input type="checkbox"/>	Significant (>75%)	
			<input type="checkbox"/>	Some degree (25-75%)	
			<input type="checkbox"/>	Poor degree (<25%)	
			<input type="checkbox"/>	Significant (>75%)	
			<input type="checkbox"/>	Some degree (25-75%)	
			<input type="checkbox"/>	Poor degree (<25%)	
			<input type="checkbox"/>	Significant (>75%)	
			<input type="checkbox"/>	Some degree (25-75%)	
			<input type="checkbox"/>	Poor degree (<25%)	
			<input type="checkbox"/>	Significant (>75%)	
			<input type="checkbox"/>	Some degree (25-75%)	
			<input type="checkbox"/>	Poor degree (<25%)	

32a How many on-site sewage systems in the municipality require inspections in accordance with the Ontario Building Code (OBC)?

32b How many on-site sewage systems requiring inspections in accordance with the OBC (i.e., once every five years) have been inspected?

32c How many on-site sewage systems inspected in the reporting period did not meet regulatory standards and therefore required follow-up action (e.g., pump out, Phase II, replacement, etc.?)

38a What specific tools/resources within the municipality have been used since the SPP took effect? Check all that apply in the table below.

Tools/Resources	
<input type="checkbox"/>	Source Protection Interactive Mapping Tool
<input type="checkbox"/>	Risk Management Official Forum
<input type="checkbox"/>	Resource Catalogue/Campaign in a Box toolkit
<input type="checkbox"/>	Education & outreach webinar
<input type="checkbox"/>	Education & outreach community of practice
<input type="checkbox"/>	Guidance materials (i.e., fact sheets, information bulletins, etc.)
<input type="checkbox"/>	MOECC training (e.g., RMO/RMI certification, property entry)
<input type="checkbox"/>	OMAFRA/OFEC information sessions
<input type="checkbox"/>	Other. Please explain: <input type="text"/>

39b Is the municipality integrating source protection requirements into the following program areas? Check all that apply.

- Municipal land use planning
- Municipal building permits

39c Indicate if the municipality is integrating source protection knowledge/science into each of the municipal program areas as shown in the table below (if applicable, include the number of lower-tier municipalities).

Number of lower-tier municipalities integrating source into program areas:	Municipal Program Area
	Road salt storage/application
	Snow storage
	Pesticide storage/application
	Hazardous waste storage
	Organic solvents storage

	Municipal fuel storage (e.g., for heating, maintenance vehicles, etc.)
	Municipal well maintenance and operations
	Municipal water quantity
	Stormwater infrastructure maintenance
	Other. <small>Please describe:</small>

40 In the table below, indicate the specific measures taken by the municipality (including upper-, lower-, and single-tier) subject to SPP policies to integrate source protection into business processes by checking all that apply from the list below. Please also indicate the number of subject municipalities that are integrating source protection into their business processes.

Number of lower-tier municipalities integrating source into program areas:	Measures Taken
	Staff involved with land use planning and/or section 59 policies trained in source protection
	Staff guidance documents updated/produced for evaluating land use planning applications conforming with/having regard to source protection plan policies
	Planning design and technical guidelines updated/produced for source protection considerations for applicants
	Strategy and timeline established to undertake SPP conformity exercise
	Planning documents updated
	Planning maps/schedules updated
	Siting/placement of activities away from vulnerable areas
	Complete planning application requirements (i.e., supporting documentation such as stormwater management plan, master environmental servicing plan, lot grading plan, etc. needed)
	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
	Steps taken (e.g., municipal by-law, conservation authority regulation, etc.) to reduce the number of applications that require RMO screening
	Public works operations
	Other. <small>Please describe:</small>
<input type="checkbox"/>	No changes made. <small>Please explain:</small>

43a In the table below, indicate which of the listed significant drinking water threats were being engaged in (i.e., enumerated as ‘existing’ significant risks/threats) at the time of SPP approval. Lead SPAs will be maintaining a running tally of progress made in addressing significant risks that were on the ground before plans were approved. This information will assist SPAs as they maintain a running tally of progress in addressing existing significant risks that were on the ground before plans were approved. The running tally consists of the formula: $A+B-C-D$ where:

- A = Original estimate of SDWT engaged in/enumerated when SPP approved
- B = SDWT identified after SPP approved as a result of field verification (i.e., not 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

Using the above formula for the running tally, complete the columns in the table with the information for each significant drinking water threat (SDWT) selected:

Prescribed Drinking Water Threat / Local Threat / Condition	A	B	C	D	No. of threats remaining to be addressed ($A + B - C - D$)
Waste (includes storage, transfer and disposal)					0
Sewage systems (including stormwater management, septics, treatment plants)					0
Application of agricultural source material to land					0
Storage of agricultural source material					0
Management of agricultural source material					0
Application of non-agricultural source material to land					0
Handling and storage of non-agricultural source material					0
Application of commercial fertilizer to land					0
Handling and storage of commercial fertilizer					0
Application of pesticide to land					0
Handling and storage of pesticide					0
Application of road salt					0
Handling and storage of road salt					0
Storage of snow					0
Handling and storage of fuel					0

Handling and storage of dense non-aqueous phase liquid					0
Handling and storage of organic solvent					0
Management of runoff that contains chemicals used in the de-icing of aircraft					0
Use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard					0
Water taking from an aquifer without returning the water to the same aquifer or surface water body					0
Reducing recharge of an aquifer					0
Local threat #1 (if applicable, please specify)					0
Local threat #2 (if applicable, please specify)					0
Condition #1 (if applicable, please specify)					0
Condition #2 (if applicable, please specify)					0
Condition #3 (if applicable, please specify)					0
Condition #4 (if applicable, please specify)					0
Condition #5 (if applicable, please specify)					0
TOTAL	0	0	0	0	0

43b Please provide comments to explain the overall progress made in addressing these significant risks in the box below. Where possible, include an estimated percentage of overall progress made in the comments provided. (NOTE: This is intended to be the same as included in the ARDB*).

46 How is the implementation of policies that address significant drinking water threats directly or indirectly funded? Check all that apply.

- Municipality received provincial funding
- Municipality recovered costs through municipal taxes
- Municipality recovered costs through municipal water rates
- Municipality recovered costs through other means

LESPR-A1

The following questions are a reflection of SPP monitoring policies in the Lake Erie Region. Carefully review your municipality's monitoring policies and respond to the following if applicable. Policy language may vary for each municipality.

1. Please provide a summary of the actions taken to ensure that the management of runoff that contains chemicals used in the deicing of aircraft never becomes a significant drinking water threat.

2. Further, report if any applications or environmental assessments have been initiated for new airport facilities within vulnerable areas.

3. If required to implement education and outreach programs as the primary means of managing the risk associated with significant drinking water threats, please provide a summary detailing, at at minimum, the properties where these programs were implemented and additional details on how the significant drinking water threat was managed and/or ceased to be significant.

4. Please provide a summary of the actions taken the previous year to assess the chloride concentrations related to _____ including recommendations for further study or monitoring, if required. The summary shall include a conclusion on whether the chloride concentrations are a described issue in accordance with the *Clean Water Act* and technical rules.

5. Please provide a summary of the actions taken the previous year to assess the nitrate concentrations related to _____, including recommendations for further study or monitoring, if required. The summary shall include a conclusion on whether the nitrate concentrations are a described issue in accordance with the *Clean Water Act* and technical rules.

6. If applicable, document the nature of any new education and outreach program established regarding fuel oil tanks, the number of persons contacted, and the location of the participants.

LESPR-A2 Please enter any supplemental information not captured in the previous tabs that you feel is valuable and would contribute to assessing the extent to which SPP objectives are being achieved. The information may include anything from additional Part IV statistics to interesting anecdotes.

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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

Date November 18, 2016

Prepared By Girish Sankar, Director of Water
Resources

Re: Surface Water Workshop / Source Protection - Draft Recommendations

Background

The MOECC is working on revising the technical rules pertaining to surface water intakes. A working group was established to discuss and make recommendations to the technical rules. The recommendations are grouped in the following categories:

- 1- Intake Protection Zones (IPZs) delineation,
- 2- Intake Protection Zones vulnerability scoring, and
- 3- Consideration of Climate Change impacts on IPZs.
- 4- Consideration of the uncertainty level determined for IPZs on SPP policy decision making.

These recommendations, if translated into technical rules, will **not** replace the existing prescribed methods or approaches in the rules but will allow for more flexibility to the SPAs to adopt other technical approaches that reflect the local characteristics and concerns of the drinking water systems.

Discussion

IPZ-1 delineation

(1) Allow the rules to have a larger IPZ-1 than the prescribed IPZ-1, where the IPZ-1 abutted the land, if local information and data suggest that the prescribed fixed radius is not sufficient to meet the intent of IPZ-1.

IPZ-2 delineation

(1) Revise TR 66 to reflect that the time of travel (2hrs) is not limited to the operator response but it should include the spill response time, i.e. from the time when the spill happens till the operator shuts down the system.

(2) Allow the rules, for specific situations with evidence and at SPA discretion, to amalgamate both IPZ-1 and 2 (or portion of IPZ-2) into one zone and name it IPZ-1 (e.g. situations where the IPZ-2 extends few meters and still has high risk as IPZ-1). In these situations, a new IPZ-2 could be delineated for a time of travel that is greater than 2hrs and IPZ-3s will not be needed unless there is an EBA (Event Based Area) or an ICA (Issue Contributing Area that extends beyond IPZ-1/2).

(3) Allow the rules to divide IPZ-2 into sub-zones based on the local characteristics of the IPZ-2, subject to the SPA's discretion and professional judgements, as it is already allowed for IPZ-3s.

IPZ-3 delineation

(1) Allow the rules to not have an IPZ-3 if the IPZ-1/2 delineations are sufficient to protect the drinking water sources unless there is an EBA or ICA, then IPZ-3 is required but without scoring.

(2) Where IPZ-3s are extensively delineated (very large watershed) for Type C and D intakes (excluding Type C and D listed in TR 68), allow the rules to stop IPZ-3 at certain point where the SPA believes that any spill beyond this point will likely have no impact on the water quality at the intake, SPA will be required to provide evidence.

IPZ- Issue Contributing Area (IPZ-ICA)

(1) Allow the rules to recognize the ICA as a vulnerable area as IPZ-1, 2 or 3. IPZ-ICA may extend beyond the IPZs if there is a scientific evidence to support that to capture activities that contribute contaminant to the Issue. MOECC should consider developing a technical bulletin to explain how drinking water issues, threats contributing to issues and delineation of ICAs may be identified.

IPZ Scoring

(1) Allow the rules to have the AVF of the farther sub-zone/IPZ from the intake to be greater than the AVF of the closer sub-zone/IPZ to the intake; as the AVF represents the vulnerability of the local characteristics of the sub-zone of the specific IPZ. Rule 92 should be revised to account for the proximity factor from the IPZ-2 sub-areas to the intake.

(2) In addition to that and w.r.t recommendation (1), if the SPA does not wish to extend the IPZ-1, the rules should provide flexibility to allow the adjacent portion (s) of IPZ-2 to IPZ-1 to have same score as the IPZ-1 score.

(3) Allow the rules to have a broader range for IPZ-2 AVF score, i.e. 7-10, to enable higher scores in IPZ-2 similar to IPZ-1.

Climate Change

At this stage, it is not recommended to prescribe requirements of Climate Change scenarios for SW delineations in the rules. Currently there is nothing in the rules to stop the SPA to change the delineation using any CC scenarios. Under TR 15.3 the SPPB Director may require the SPC/A to include Climate Change impacts on the assessment report. It is also recommended to run some scenarios to determine if CC has an impact on the water quality at the SW sources. If it does, then rules should be updated to include these scenarios; this could be part of longer term changes.

Uncertainty

At this stage, it is not recommended to change the factors listed in the current rules for how to determine the uncertainty; however, the MOECC may conduct a review to determine the benefits of increasing the levels of uncertainty to three or more or conducting a technical study, sensitivity analysis, to determine what factors of Uncertainty need to be determined and how these will alter the quality of technical works.

Thames – Sydenham and Region Drinking Water Source Protection Source Protection Committee Update

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

Agenda #

Cc SP Management Committee

Date November 18, 2016

Prepared By Jason Wintermute, Water Management Supervisor, Lower Thames

Re: Lower Thames Valley SPA: Microcystin Issue Update

Background

The Lower Thames Valley Source Protection Area (LTV SPA) Assessment Report (AR) identified Microcystin LR as an Issue with an anthropogenic source for the Wheatley and Chatham/South Kent Lake Erie Intakes. The decision to do so was carefully considered and involved consultation with the neighbouring Essex Region Source Protection Area (ER SPA). As part of the discussions, the ER SPA compiled microcystin water quality data for raw and treated drinking water at the western basin Lake Erie intakes. The available data did not allow for a trend to be established and as such the committee felt the data did not satisfy rule 114. As a result, Microcystin was identified as an issue under the Clean Water Act (CWA) as per rule 115.1 (by both the LTV SPA and ER SPA). To address the Issue, the Thames Sydenham and Region Source Protection Plan (TSR SPP) included policy 4.14 Microcystin Monitoring Policy. The policy calls for further monitoring and research to inform whether the Issue should be declared under rule 114 in the future and if so how a Issue Contributing Area (ICA) should be delineated.

Work Plan

As part of the work plan submitted to the Ministry of Environment and Climate Change (MOECC), the TSR submitted that it would 1) Assemble and update microcystin and phosphorous data for Lake Erie intakes; 2) Review available data to determine monitoring gaps, discuss gaps and possible solutions with operators and CAs to determine most efficient way to fill gaps; 3) Monitor and summarize research undertaken by others to help local decision makers including research which may point to the impact of nutrient loadings from the Thames on intakes in Lake St Clair and the western basin of Lake Erie 4) Liaise with Essex Region CA, local municipalities, health units and the Ministry.

Progress

Considerable progress has been made in the last few years with respect to the Microcystin Issue. The Great Lakes Water Quality Agreement (GLWQA) recognized that phosphorous is the limiting nutrient for cyanobacteria growth and as such contributes to the Microcystin Issue. Similarly, the Province of Ontario signed the Western Basin of Lake Erie Collaborative Agreement which also recognizes phosphorous as the most important factor in controlling cyanobacteria blooms. Both of these Agreements have set phosphorous reduction targets of 40% of 2008 loadings. The GLWQA Annex 4 Nutrient Committee has recognized the Thames River as a "Priority Watershed" for phosphorous reductions and has given it special targets of a 40% reduction in dissolved reactive phosphorous and a 40% reduction in spring loads. Under the GLWQA, a Domestic Action Plan (DAP) is due in 2018 and the CAs have been contributing significantly to its drafting through participation in working groups and supplying data. They have also been involved in early actions and research such as the Great Lakes Agricultural

Stewardship Initiative (GLASI). The CAs expect to play a significant role in implementing the DAP once finalized through expanded Stewardship programming.

The primary collaborative working on Microcystin (as opposed to phosphorous) is the Southwestern Region Cyanobacteria Working Group. The working group has membership from several provincial ministries, Conservation Authorities (CAs), Health Units and drinking water system operators. The protocols established by the working group lay out that the local Health Units are the agencies to which the public is to report cyanobacteria blooms as they would be responsible for immediate actions such as closing public beaches. The MOECC conducts microcystin sampling and research in Lake St. Clair and Lake Erie during the 'algae bloom season' and reports back to the working group. One significant observation they have made in the last few years is that microcystin blooms are also occurring in Lake St. Clair and may eventually impact those drinking water intakes if action isn't taken. The MOECC has established a website for members of the working group to which it posts relevant data and research. This is now the primary source of microcystin sampling data for both the open water and drinking water systems monitoring programs.

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 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. These observations, together with those from MOECC sampling point to a particular challenge in declaring Microcystins an Issue under rule 114. The variability from year to year suggests that a 'trend' towards an impairment of the lake water for use as a source of drinking water is likely never to be observed. The TSR will likely have to wait for an actual impairment to be observed to declare microcystins an Issue under rule 114 allowing for the creation of an ICA. Hopefully actions take through the GLWQA will mean the TSR will never have to do so. Other actions taken by the TRCWR have to do with addressing monitoring gaps in the Lower Thames. The TRCWR facilitated a MOECC grant that allowed for Gap Analysis of the Lower Thames' surface water monitoring network by Freshwater Research. Since it is not within the financial means of the LTVCA to pay for the expensive microcystin analysis, the Gap Analysis primarily addressed the data gaps for properly assessing phosphorous loading. The Gap Analysis led to an additional grant from the MOECC to actually implement the Gap Analysis and starting this September, the LTVCA has more than doubled its surface water quality monitoring,

Summary

While all the work may not have been undertaken directly by TSR staff, progress has been made towards all four points of the work plan through the various collaboratives. Work towards point 1, assembling and updating microcystin and phosphorous data for Lake Erie intakes, has been completed by the Southwestern Region Cyanobacteria Working Group. Work towards point 2, reviewing available data to determine monitoring gaps, discussing gaps and possible solutions with operators and CAs to determine most efficient way to fill gaps, has been completed through both the Cyanobacteria Working Group as well as through the TRCWR Gap Analysis for the Lower Thames. Work towards 3), monitoring and summarizing research undertaken by others to help local decision makers including research which may point to the impact of nutrient loadings from the Thames on intakes in Lake St Clair and the western basin of Lake Erie, has been completed by the Cyanobacteria Working Group as well as through the TRCWR Water Quality Assessment in the Thames River Watershed. Work towards 4, liaising with Essex Region CA, local municipalities, health units and the Ministry, has occurred on an as needed basis and in addition to direct contacts between TSR staff and staff at these other agencies, the Cyanobacteria Working Group is a collaboration amongst these groups.