

Region of Waterloo

Engineering and Environmental Services, Water and Wastewater Services

Report Title: 2024 Source Protection Annual Report

Appendix

Section 1: Policy Implementation Status

Table 1.1 provides a summary of the status of the policies in the Grand River Source Protection Plan using the definitions defined by the Ministry of Environment Conservation and Parks. Policies can be found in the Region of Waterloo chapter of the Grand River Source Protection Plan available at www.sourcewater.ca.

Definitions:

Implemented – means action(s) was taken for these policies by the implementing body(ies) or if it is an ongoing activity, then processes have been established and are in place.

Policy outcome(s) evaluated; no further action(s) required – means that through their evaluation, the implementing body has determined that current and/or existing procedures/processes/programs achieve the policy outcome(s), or that it is not advisable to take action at this time. As a result, a decision was made by the implementing body that the policy is considered implemented.

In progress/some progress made – means that some action(s) were taken on the policy, but further action(s) is planned or is underway.

No progress made – means that no action(s) were taken yet on the policy by the implementing body(ies) and it remains under consideration.

No information available/no response received – means that an implementing body(ies) does not have enough information to determine the implementation status of a particular policy(ies).

No response required/not applicable – means that the monitoring policies do not

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require a response or a report on actions taken; the implementing body is not named in the monitoring policy OR, that the policy is not applicable to the implementing body.

Table 1.1 - Policy Implementation Status

Policy Number	Threat Type	Implementation Status
RW-CW-1.3	Future and Existing	Implemented
RW-MC-1.4	Future	In progress/some progress made
RW-MC-1.5	Future and Existing	Implemented
RW-MC-1.6	Existing	Implemented
RW-MC-1.13	Future and Existing	Implemented
RW-MC-1.18	Existing	Implemented
RW-NB-1.20	Existing	In progress/some progress made
RW-NB-1.21	Existing	Implemented
RW-NB-1.22	Future and Existing	Implemented
RW-NB-1.23	Future	In progress/some progress made
RW-NB-1.24	Future and Existing	In progress/some progress made
RW-NB-1.25	Future and Existing	Implemented
RW-CW-3	Future	Implemented
RW-CW-4	Existing	In progress/some progress made
RW-CW-5	Future and Existing	Implemented
RW-MC-6	Future	In progress/some progress made
RW-MC-7	Future	In progress/some progress made
RW-CW-8	Future and Existing	Implemented
RW-CW-8.1	Existing	Implemented

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Policy Number	Threat Type	Implementation Status
RW-CW-12.1	Future	Implemented
RW-CW-14	Existing	In progress/some progress made
RW-MC-17	Future	In progress/some progress made
RW-MC-18	Future	In progress/some progress made
RW-CW-19	Existing	In progress/some progress made
RW-CW-19.1	Future	Implemented
RW-CW-20 (a)	Future	Implemented
RW-CW-20 (b)	Future and Existing	In progress/some progress made
RW-CW-20.1	Existing	In progress/some progress made
RW-CW-21	Future	Implemented
RW-CW-21	Existing	In progress/some progress made
RW-CW-23	Future	Implemented
RW-CW-23	Existing	In progress/some progress made
RW-CW-24 (a)	Existing	Implemented
RW-CW-24 (b)	Future and Existing	Implemented
RW-CW-28	Future	Implemented
RW-CW-28	Existing	In progress/some progress made
RW-CW-29	Future	Implemented
RW-CW-29	Existing	In progress/some progress made
RW-CW-30 (a)	Existing	Implemented
RW-CW-30 (b)	Future and Existing	Implemented

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Policy Number	Threat Type	Implementation Status
RW-CW-31	Future	Implemented
RW-CW-32	Future	Implemented
RW-CW-32	Existing	In progress/some progress made
RW-CW-33 (a)	Existing	Implemented
RW-CW-33 (b)	Future and Existing	Implemented
RW-CW-34	Future	Implemented
RW-CW-34.1	Future	Implemented
RW-CW-34.1	Existing	In progress/some progress made
RW-CW-35	Future	Implemented
RW-CW-35	Existing	In progress/some progress made
RW-CW-35.1	Future	Implemented
RW-CW-35.1	Existing	In progress/some progress made
RW-MC-36	Future	In progress/some progress made
RW-CW-37 (a)	Existing	Implemented
RW-CW-37 (b)	Future and Existing	Implemented
RW-CW-39	Existing	In progress/some progress made
RW-CW/NB-40	Future	In progress/some progress made
RW-CW-41	Future	Implemented
RW-CW-41	Existing	In progress/some progress made
RW-CW-42	Future	Implemented
RW-CW-42	Existing	In progress/some progress made

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Policy Number	Threat Type	Implementation Status
RW-CW-43 (a)	Existing	Implemented
RW-CW-43 (b)	Future and Existing	Implemented
RW-CW-45	Future	Implemented
RW-CW-45	Existing	In progress/some progress made
RW-CW-46	Future	Implemented
RW-CW-46	Existing	In progress/some progress made
RW-CW-47	Future	In progress/some progress made
RW-CW-48 (a)	Existing	Implemented
RW-CW-48 (b)	Future and Existing	Implemented
RW-CW-50	Future	Implemented
RW-CW-50	Existing	In progress/some progress made
RW-CW-51	Future	Implemented
RW-CW-51	Existing	In progress/some progress made
RW-CW-52	Existing	Implemented
RW-CW-53	Future and Existing	Implemented
RW-CW-54	Future	Implemented
RW-CW-54	Existing	In progress/some progress made
RW-CW-55	Future	Implemented
RW-CW-55	Existing	In progress/some progress made
RW-CW-55.1	Existing	Implemented
RW-CW-56	Future	Implemented

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Policy Number	Threat Type	Implementation Status
RW-CW-56	Existing	Implemented
RW-CW-57	Future	Implemented
RW-CW-57	Existing	In progress/some progress made
RW-CW-58	Future	Implemented
RW-CW-58	Existing	In progress/some progress made
RW-CW-59	Existing	Implemented
RW-CW-60	Future and Existing	Implemented
RW-CW-62	Future and Existing	In progress/some progress made
RW-CW-63	Future and Existing	In progress/some progress made
RW-CW-64	Future	In progress/some progress made
RW-CW-64	Future	In progress/some progress made
RW-CW-68	Future	No response required/not applicable
RW-CW-68	Future	No progress made

Section 2: Annual Reporting Questions

A number of additional questions are required to be answered depending on the implementation status response in Table 1.1. The specific questions and answers that apply to the Region of Waterloo are provided below.

Table 2.1 – Annual Reporting Questions and Responses

Report ID	Question Details	Response
16	If the implementation statuses "no progress made" or "no information available/no response received" were chosen for any policy(ies) in Section 2 (as summarized in Table 1.1), please list the policy(ies) number, explain why no progress was made or no information was available, and outline next steps to support implementation.	RW-CW-20.1 - The Region of Waterloo has not prioritized storm water incentives due to a lack of eligible properties. The Region will continue to evaluate the requirement of an incentive program and will implement one as warranted. RW-MC-68 - Region staff will not review or amend Official Plan policies for water taking in the WHPA-Q as the Region has been identified as an upper-tier municipality without planning responsibilities through Ontario Bill 23 and the Region Official Plan is no longer in effect.

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Report ID	Question Details	Response
20	State the number of Risk Management Plans (RMP) agreed to by the RMO under subsection 56 (1) or 58 (5) of the Act within the source protection area, in this reporting period. Note – this number does not include Risk Management Plan replacements or amendments.	63
21	State the number of RMPs established by the RMO under subsection 56(6), 58(10) or (12) of the Act within the source protection area, in this reporting period.	0
22	For each RMP agreed to by the RMO for this reporting period (under subsection 56 (1) or 58 (5) of the Act), and established by the RMO for this reporting period (under subsection 56 (6), 58 (10) or (12) of the Act), please list the RMP number, the location of the property to which the RMP relates, the type of Protection Zones(s) (e.g., WHPA, IPZ) where the property is located, and the activity(ies) to which the RMP relates.	See Table 2.2 – Risk Management Plan Summary
23	How many existing* significant drinking water threats have been managed through risk management plans agreed to or established in this reporting period (* meaning engaged in OR enumerated as existing significant threats)?	62

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Report ID	Question Details	Response
28	State the number of properties (i.e., parcels) with risk management plans agreed to or established for this reporting period. Note – this number does not include Risk Management Plan replacements or amendments.	85
30	State the number of RMPs currently in-progress [Optional]	275
36	State the number of RMPs the RMO refuses to agree to or to establish under subsection 56(9), 58(15) or (16) of the Act during the reporting period.	0
37	For each RMP that the RMO refused to agree to or establish during the reporting period, please list the location of the property, the type of Protection Zone (e.g., WHPA-IPZ) where the property is located, the activity(ies) to which the RMP relates, and a brief description of the reason for the refusal.	Not applicable
42	How many section 59 notices were issued in this reporting period for activities to which a risk management plan (section 58) policy applied, as per ss. 59(2)(b) of the Clean Water Act?	49
43	How many section 59 notices were issued in this reporting period for activities to which neither a prohibition (section 57) nor a risk management plan (section 58) policy applied, as per ss. 59(2)(a) of the Clean Water Act?	802

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Report ID	Question Details	Response
50	State the number of notices and/or copies of prescribed instruments that state the prescribed instrument conforms with the significant drinking water threat policies in the source protection plan (i.e., statement of conformity confirms the instrument holder is exempt from requiring a risk management plan) did the risk management official give under subsections 61(2), (7) and (10) during the reporting period?	0
51	State the number of notices and/or copies of prescribed instruments that state the prescribed instrument conforms with the significant drinking water threat policies in the source protection plan (i.e., statement of conformity confirms the instrument holder is exempt from requiring a risk management plan) did the risk management official RECEIVE under subsections 61(2), (7) and (10) of O. Reg. 287/07 in this reporting period?	0
52	For each notice given or received during the reporting period, (under subsections 61 (2), (7) and (10)) please list the notice number, whether the RMO received/gave the notice, the location of the property to which the notice relates, the type of Protection Zone (e.g., WHPA-IPZ) where the property is located, the activity(ies) to which the notice relates, and the type of Prescribed Instrument (if any) referred to in the notice.	Not applicable

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Report ID	Question Details	Response
66	State the number of inspections that were carried out for activities (existing or future) that are prohibited under section 57 of the Clean Water Act, 2006, for this reporting period.	1
67	State the number of those cases (inspection under s.57) that showed activities were taking place on the landscape even though they were prohibited (i.e., in contravention) under section 57 of the Act, in this reporting period.	1
70	How many existing significant drinking water threats have been prohibited as a result of section 57 prohibitions in this reporting period?	1
75	How many new properties were identified with section 57 prohibited activities during the reporting year (do not include properties established outside of this reporting year)?	0
80	State the number of inspections that were carried out for activities that require a risk management plan under section 58 of the Clean Water Act, 2006, for this reporting period. Note – this number does not include winter maintenance consultations conducted by external consulting staff.	56

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Report ID	Question Details	Response
82	State the number of those cases (inspections under s.58) in which the person was carrying out an activity in contravention of subsection 58 (1) of the Act (i.e., person engaging in a drinking water threat activity without a risk management plan in place as required by the source protection plan), during the reporting period.	0
83	State the number of those cases (inspections under s.58) in which the person was not complying with a risk management plan under section 58 of the Clean Water Act, 2006, for this reporting period.	0
84	State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 57 for this reporting period.	0
85	For each inspection carried out during this reporting period, please list the inspection number, and the activity(ies) to which the inspection related.	See Table 2.3 – Inspection Summary
86	State the number of orders issued for contraventions and/or non-compliance found with section 57 for this reporting period.	0
87	State the number of orders issued for contraventions and/or non-compliance found with section 58 for this reporting period.	0

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Report ID	Question Details	Response
90	For each order issued during this reporting period, please list the order number, the location of the property to which the order relates, the type of Protection Zone (e.g., WHPA-IPZ) where the property is located, the activity(ies) to which the order relates, and a brief description of the circumstances related to the order.	Not applicable
135	State the number of risk assessments submitted under section 60 of the Clean Water Act, 2006, during the reporting period.	0
140	State the number of risk assessments accepted during the reporting period.	0
145	State the number of risk assessments not accepted during the reporting period.	0
150	For each risk assessment submitted during this reporting period, please list the risk assessment number, the location of the property to which the order relates, the type of Protection Zone (e.g., WHPA-IPZ) where the property is located, and the activity(ies) to which the risk assessment relates.	Not applicable
180	State the number of times the RMO caused a thing to be done under s.64 of the Clean Water Act, 2006, during the reporting period.	0

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Report ID	Question Details	Response
185	For each thing (under s.64) during this reporting period, please list the notice number, the location of the property to which the thing relates, the type of Protection Zone (e.g., WHPA-IPZ) where the property is located, and the activity(ies) to which the notice under s.64 relates.	Not applicable
206	State the total number of prosecutions during the reporting period.	0
207	State the number of prosecutions that resulted in a conviction under section 106 of the Clean Water Act, 2006, during the reporting period.	0
208	For each prosecution during this reporting period, briefly describe each offense, and whether the prosecution resulted in a conviction.	Not applicable
223	What is the current status of your Official Plan conformity exercise?	See Table 2.4 – Official Plan Conformity Status
226	What is the current status of your Zoning By-Law conformity exercise?	See Table 2.5 - Zoning By-Law Conformity Status
241	State the number of source water protection signs installed on municipal roads in your municipality for this reporting period.	0
242	State the number of source water protection signs installed at other locations (i.e. not on municipal or provincial roads) (if applicable) in your municipality, for this reporting period.	0

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Report ID	Question Details	Response
260-271	Area Municipal on-site sewage system inspections	See Table 2.6 – Septic Inspection Summary
281	If applicable, report on the current status (as of previous year) of Issues identified in your reporting area. Begin by identifying the drinking water system(s) and any associated drinking water issue(s)/parameter(s) (chemical or pathogen) that have been identified, then indicate whether an Issue Contributing Area (ICA) was delineated for the identified issue(s), and any observations in the concentration or trend for each issue.	See Table 2.7 - Issue Contributing Area Summary

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285	If your municipality has an Issue Contributing Area, describe any actions taken by the municipality to ensure the safe delivery of drinking water.	Chloride concentrations continue to increase in several well systems related to the application of winter de-icing salt on roads, parking lots, multi-use trails, and sidewalks. This trend is consistent with staff's assessment that it may take decades for changes in de-icing practices at surface to potentially change concentrations in the wells. With that being said, the number of properties with approved RMPs for salt application is not sufficient to change the overall salt loading to groundwater. Region staff continue to engage local stakeholders (including other municipal staff, property owners/managers, and the public) on a variety of initiatives, including RMP negotiations, education and awareness campaigns (i.e. Shifting Salt), and promotion of best practices. The Region expanded the area where an RMP is required to the entire ICA of a well with a designated chloride and/or sodium water quality issue. This change was implemented in the 2020 Plan amendment and made in recognition that the current scope of RMP
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Report ID	Question Details	Response
		requirements is not sufficient to mitigate the impact of salt application related to winter maintenance on roads and parking lots. While the Region has negotiated RMPs on hundreds of properties since the Source Protection Plan came into effect, the Clean Water Act does not provide sufficient authority to require less salt be applied due to the slip-and-fall liability framework in Ontario. Accordingly, the policies in the Plan are not enough to reverse the increasing impacts in the water supply sources and degradation is continuing. A more detailed description of the issues and recommendation to MECP to address this issue can be found in the Lake Erie Source Protection Committee Report SPC -19-12-02 dated December 19, 2019.

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Report ID	Question Details	Response
309	Indicate which of the listed Significant Drinking Water Threats (SDWTs) were being engaged in (enumerated as existing significant threats) at the time of plan approval. Then, using the formula for the running tally of enumerated threats as explained below, complete the cells with the information for each SDWT indicated as existing in the source protection area. The running tally consists of the formula: $A+B-C-D$ where: A = Estimate of SDWTs engaged in/enumerated when latest source protection plan approved; B = Additional SDWTs identified after latest source protection plan approved as a result of field verification (i.e., not part of "A" estimate); C = SDWTs included in enumeration estimates at time of latest 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); and D = SDWTs (from category A or B) that have been addressed because a policy(ies) have been implemented.	See Table 2.8 – Significant Drinking Water Threats Summary
330	Do you have any other item on which you wish to report?	Not applicable

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Table 2.2 - Risk Management Plan Summary

RMP Number	Protection Zone	Activities
10327-01	WHPA	Application of road salt
00220-01	WHPA	Application of road salt
10336-01	WHPA	Application of road salt
10304-01	WHPA	Application of road salt/Storage of road salt/Handling and storage of a dense non-aqueous phase liquid
10303-01	WHPA	Application of road salt/Handling and storage of a dense non-aqueous phase liquid
10324-01	WHPA	Application of road salt/Storage of road salt
10324-01	WHPA	Application of road salt
10345-01	WHPA	Application of road salt
10345-01	WHPA	Application of road salt
10345-01	WHPA	Application of road salt
10345-01	WHPA	Application of road salt
10345-01	WHPA	Application of road salt
00233-01	WHPA	Application of road salt
00235-01	WHPA	Application of road salt
00235-01	WHPA	Application of road salt
00236-01	WHPA	Application of road salt/Discharge from a storm water management facility
00236-01	WHPA	Application of road salt/Discharge from a storm water management facility
10348-01	WHPA	Application of road salt

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RMP Number	Protection Zone	Activities
10349-01	WHPA	Application of road salt
10353-01	WHPA	Application of road salt
10333-01	WHPA	Application of road salt
10347-01	WHPA	Application of road salt
10349-01	WHPA	Application of road salt
00227-01	WHPA	Application of road salt/Storage of road salt
10358-01	WHPA	Application of road salt
10330-01	WHPA	Application of road salt
10357-01	WHPA	Application of road salt/Discharge from a storm water management facility
10357-01	WHPA	Application of road salt
10357-01	WHPA	Application of road salt
10364-01	WHPA	Application of road salt
10364-01	WHPA	Application of road salt
00237-01	WHPA	Application of road salt
00238-01	WHPA	Application of road salt
10370-01	WHPA	Application of road salt/Storage of hazardous waste
10371-01	WHPA	Application of road salt
10367-01	WHPA	Application of road salt
10367-01	WHPA	Application of road salt
00239-01	WHPA	Application of road salt

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RMP Number	Protection Zone	Activities
00219-01	WHPA	Application of road salt/Discharge from a storm water management facility
00240-01	WHPA	Application of road salt/Discharge from a storm water management facility
00234-01	WHPA	Application of road salt/Discharge from a storm water management facility
10235-01	WHPA	Application of road salt
00245-01	WHPA	Application of road salt/Discharge from a storm water management facility
00246-01	WHPA	Application of road salt
00241-01	WHPA	Application of road salt
10362-01	WHPA	Handling and storage of a dense non-aqueous phase liquid
10359-01	WHPA	Application of road salt
10392-01	WHPA	Application of road salt
00243-01	WHPA	Application of road salt/Discharge from a storm water management facility
10396-01	WHPA	Application of road salt/Storage of road salt
10396-01	WHPA	Application of road salt/Storage of road salt
10257-01	WHPA	Application of road salt
10386-01	WHPA	Application of road salt
10399-01	WHPA	Application of road salt
00242-01	WHPA	Application of road salt/Discharge from a storm water management facility

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RMP Number	Protection Zone	Activities
00242-01	WHPA	Application of road salt/Discharge from a storm water management facility
00249-01	WHPA	Application of road salt
10113-01	WHPA	Application of road salt
10113-01	WHPA	Application of road salt
10113-01	WHPA	Application of road salt/Storage of road salt
00250-01	WHPA	Application of road salt/Discharge from a storm water management facility
00250-01	WHPA	Application of road salt/Discharge from a storm water management facility
10391-01	WHPA	Application of road salt/Storage of hazardous waste
10395-01	WHPA	Application of road salt
00252-01	WHPA	Application of road salt
10239-01	WHPA	Application of road salt
00253-01	WHPA	Application of road salt/Discharge from a storm water management facility
10405-01	WHPA	Application of road salt
10405-01	WHPA	Application of road salt
10332-01	WHPA	Application of road salt
00258-01	WHPA	Application of road salt/Discharge from a storm water management facility
10406-01	WHPA	Application of road salt
00254-01	WHPA	Application of road salt

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RMP Number	Protection Zone	Activities
00254-01	WHPA	Application of road salt
10398-01	WHPA	Application of road salt
00256-01	WHPA	Application of road salt
00262-01	WHPA	Handling and storage of a dense non-aqueous phase liquid
00262-01	WHPA	Application of road salt/Discharge from a storm water management facility
00263-01	WHPA	Application of road salt/Discharge from a storm water management facility
00263-01	WHPA	Application of road salt
10403-01	WHPA	Application of road salt
00264-01	WHPA	Application of road salt
10412-01	WHPA	Application of road salt
10415-01	WHPA	Application of road salt

Table 2.3 - Inspection Summary

Inspection Number	Activities
11591-2024	Application of road salt
11592-2024	Application of road salt
11596-2024	Application of road salt/Discharge from a storm water management facility
11606-2024	Application of road salt
11609-2024	Application of road salt
11613-2024	Application of road salt/Discharge from a storm water

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Inspection Number	Activities
	management facility
11614-2024	Application of road salt/Storage of road salt
11655-2024	Application of road salt/Storage of road salt/Handling and storage of a dense non-aqueous phase liquid
11656-2024	Application of road salt
11657-2024	Application of road salt/Storage of road salt
11658-2024	Application of road salt/Discharge from a storm water management facility
11659-2024	Application of road salt/Discharge from a storm water management facility
11666-2024	Storage of road salt
11667-2024	Application of road salt
11669-2024	Application of road salt
11673-2024	Application of road salt
11674-2024	Application of road salt
11717-2024	Application of road salt
11740-2024	Application of road salt
11743-2024	Handling and storage of a dense non-aqueous phase liquid/Storage of hazardous waste
11744-2024	Application of road salt
11745-2024	Application of road salt/Handling and storage of fuel
11805-2024	Handling and storage of a dense non-aqueous phase liquid
11815-2024	Handling and storage of a dense non-aqueous phase liquid

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Inspection Number	Activities
11844-2024	Application of road salt
11846-2024	Application of road salt
11905-2024	Application of road salt/Handling and storage of a dense non-aqueous phase liquid
11945-2024	Application of road salt
12008-2024	Handling and storage of a dense non-aqueous phase liquid
12074-2024	Application of road salt
12077-2024	Application of road salt
12078-2024	Application of road salt
12150-2024	Application of road salt
12237-2024	Application of road salt
12246-2024	Application of road salt/Handling and storage of a dense non-aqueous phase liquid/Storage of hazardous waste/Handling and storage of an organic solvent
12353-2024	Application of road salt
12504-2024	Application of road salt/Storage of road salt
12506-2024	Application of road salt
12507-2024	Application of road salt/Handling and storage of fuel
12510-2024	Application of road salt
12512-2024	Application of road salt
12513-2024	Application of road salt
12526-2024	Application of road salt
12527-2024	Application of road salt

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Inspection Number	Activities
12528-2024	Application of road salt
12529-2024	Application of road salt
12530-2024	Application of road salt
12531-2024	Application of road salt/Discharge from a storm water management facility
12532-2024	Application of road salt
12533-2024	Application of road salt
12550-2024	Application of road salt
12559-2024	Application of road salt
12560-2024	Application of road salt
12561-2024	Application of road salt
12562-2024	Application of road salt
12563-2024	Application of road salt

Table 2.4 - Official Plan Conformity Status

Municipality	Current Status
Region of Waterloo	Not started
City of Cambridge	Not started
City of Kitchener	Not started
Township of North Dumfries	Not started
City of Waterloo	Not started
Township of Wellesley	Not started
Township of Wilmot	Not started
Township of Woolwich	In progress

Table 2.5 - Zoning By-Law Conformity Status

Municipality	Current Status
Region of Waterloo	Not applicable
City of Cambridge	Not started
City of Kitchener	Not started
Township of North Dumfries	Not started
City of Waterloo	Not started
Township of Wellesley	Not started
Township of Wilmot	Not started
Township of Woolwich	In progress

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Table 2.6 – Septic Inspection Summary

Q260: How many on-site sewage systems in your reporting area require inspections in accordance with the Ontario Building Code, i.e., once every five years?						
Kitchener	Waterloo	Cambridge	Wellesley	North Dumfries	Woolwich	Wilmot
22	0	118	63	41	57	466
Q261: Of those requiring inspections, how many inspections of on-site sewage systems were due to be carried out in this reporting period?						
Kitchener	Waterloo	Cambridge	Wellesley	North Dumfries	Woolwich	Wilmot
0	0	13	13	1	0	0
Q262: How many inspections of on-site sewage systems that were due, were completed in this reporting period?						
Kitchener	Waterloo	Cambridge	Wellesley	North Dumfries	Woolwich	Wilmot
0	0	12	3	0	0	0
Q263: Of the on-site sewage systems inspected during this annual reporting year how many required minor maintenance work (e.g., pump out, etc)?						
Kitchener	Waterloo	Cambridge	Wellesley	North Dumfries	Woolwich	Wilmot
0	0	0	0	0	0	0

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Q264: Of the on-site sewage systems inspected during this annual reporting year, how many on-site sewage systems inspected required major maintenance work (e.g., tank replacement, etc)?						
Kitchener	Waterloo	Cambridge	Wellesley	North Dumfries	Woolwich	Wilmot
0	0	1	0	0	0	0
Q270: Of the on-site sewage systems inspected during this annual reporting period, how many required no maintenance work?						
Kitchener	Waterloo	Cambridge	Wellesley	North Dumfries	Woolwich	Wilmot
0	0	11	3	0	0	0

Table 2.7 - Issue Contributing Area Summary

Drinking Water System (Well Field)	Well / Intake	Drinking Water Issue	ICA Delineated?	Temporal Observations
Branchton Meadows	BM1, BM2	Chloride	Yes	Increasing Concentration / Trend
Elgin Street	G9	Chloride	Yes	Increasing Concentration / Trend
Elgin Street	G9	Sodium	Yes	Increasing Concentration / Trend

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Drinking Water System (Well Field)	Well / Intake	Drinking Water Issue	ICA Delineated?	Temporal Observations
Elgin Street	G9	Trichloroethylene	Yes	No Change in Concentration / Trend
Greenbrook	K1A, K2A, K4B, K4C, K5A, K8	Chloride	Yes	Increasing Concentration / Trend
Greenbrook	K1A, K2A, K4B, K4C, K5A	Sodium	Yes	Increasing Concentration / Trend
Greenbrook	K8	Sodium	Yes	No Change in Concentration / Trend
Hespeler	H4A	Chloride	Yes	Increasing Concentration / Trend
Hespeler	H3, H3A	Chloride	Yes	No Change in Concentration / Trend
Mannheim West	K23, K24, K26	Nitrate	Yes	Decreasing Concentration/ Trend
Middleton Street	G1, G1A, G2, G3, G14	Chloride	Yes	Increasing Concentration / Trend
Middleton Street	G1, G1A, G2, G3, G14	Sodium	Yes	Increasing Concentration / Trend

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Drinking Water System (Well Field)	Well / Intake	Drinking Water Issue	ICA Delineated?	Temporal Observations
Middleton Street	G1, G1A, G2, G3, G14	Trichloroethylene	Yes	No Change in Concentration / Trend
Parkway	K31, K32, K33	Chloride	Yes	Increasing Concentration / Trend
Parkway	K31, K32, K33	Sodium	Yes	Increasing Concentration / Trend
Parkway	K32	Trichloroethylene	Yes	No Change in Concentration / Trend
Pinebush	G5	Chloride	Yes	No Change in Concentration / Trend
Pinebush	G5	Sodium	Yes	No Change in Concentration / Trend
Rahmans (Pinebush)	P9, P15	Chloride	Yes	Increasing Concentration / Trend
Strange Street	K10A	Chloride	Yes	Increasing Concentration / Trend
Strange Street	K10A	Sodium	Yes	Increasing Concentration / Trend

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Drinking Water System (Well Field)	Well / Intake	Drinking Water Issue	ICA Delineated?	Temporal Observations
William Street	W1B, W1C, W2	Chloride	Yes	Increasing Concentration / Trend
William Street	W1B, W1C, W2	Sodium	Yes	Increasing Concentration / Trend
William Street	W1B, W1C, W2	Trichloroethylene	Yes	No Change in Concentration / Trend
Wilmot Centre	K50, K51, K52	Nitrate	Yes	Decreasing Concentration/ Trend

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Table 2.8 – Significant Drinking Water Threats Summary

Threat ID	Threat	A	B	C	D	Total
1	The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the Environmental Protection Act.	43	2	17	4	24
2	The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	1103	101	111	776	317
3	The application of agricultural source material to land.	90	0	29	8	53
4	The storage of agricultural source material.	73	0	30	1	42
5	The management of agricultural source material.	0	0	0	0	0
6	The application of non-agricultural source material to land.	5	0	3	0	2
7	The handling and storage of non-agricultural source material.	8	2	5	0	5
8	The application of commercial fertilizer to land.	109	0	21	8	80
9	The handling and storage of commercial fertilizer.	65	0	22	0	43
10	The application of pesticide to land.	58	0	9	3	46

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Threat ID	Threat	A	B	C	D	Total
11	The handling and storage of pesticide.	43	0	26	0	17
12	The application of road salt.	3012	619	405	261	2965
13	The handling and storage of road salt.	457	136	89	19	485
14	The storage of snow.	39	0	15	0	24
15	The handling and storage of fuel.	52	9	28	3	30
16	The handling and storage of a dense non-aqueous phase liquid.	37	13	18	5	27
17	The handling and storage of an organic solvent.	20	2	7	0	15
18	The management of runoff that contains chemicals used in the de-icing of aircraft.	0	0	0	0	0
19	Water taking from an aquifer without returning the water to the same aquifer or surface water body	0	0	0	0	0
20	Reducing recharge of an aquifer	0	0	0	0	0
21	The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard. O. Reg. 385/08, s. 3.	65	0	28	0	37

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Threat ID	Threat	A	B	C	D	Total
22	The establishment and operation of a liquid hydrocarbon pipeline	0	0	0	0	0
1000	Water conditioning salts from water softeners	0	0	0	0	0
1001	Transportation of specified substances along corridors	0	0	0	0	0
1002	Spill of Tritium from Nuclear Generating Station	0	0	0	0	0
1003	Handling storage of fuel	0	0	0	0	0
1004	Transportation, storage and handling of diesel/gasoline	0	0	0	0	0
1005	Transportation of Agricultural and Non-Agricultural Source Materials	0	0	0	0	0
1006	International Shipping Channel within IPZ2	0	0	0	0	0
1007	Transportation of hazardous substances along transportation corridors	0	0	0	0	0
1008	Transportation or Storage and Handling of Fuel in an Event Based Area	0	0	0	0	0
1009	Waterfowl	0	0	0	0	0
1010	Local condition	23	0	0	0	0
-----	Totals	5302	884	863	1111	-----