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10.0 REGIONAL MUNICIPALITY OF WATERLOO

The following Regional Municipality of Waterloo policies apply to the Regional Municipality of Waterloo water supply systems as presented on Schedules A through L within the Regional Municipality of Waterloo in the Grand River watershed. The County of Wellington and County of Brant Source Protection Plan policies apply to areas outside of the Regional Municipality of Waterloo and should be referenced accordingly.

- Schedule A: Regional Municipality of Waterloo Groundwater Systems: Policy Applicability Index Map
- Schedule B: Regional Municipality of Waterloo Groundwater Systems: Map A
- Schedule C: Regional Municipality of Waterloo Groundwater Systems: Map B
- Schedule D: Regional Municipality of Waterloo Groundwater Systems: Map C
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- Schedule O: Regional Municipality of Waterloo Wellhead Protection Area, Water Quantity: Township of Woolwich
- Schedule P~~O~~: Regional Municipality of Waterloo Issue Contributing Areas; Index Map
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- Schedule W~~V~~: Regional Municipality of Waterloo Issue Contributing Areas: Strange and William St
- Schedule X~~W~~: Regional Municipality of Waterloo Issue Contributing Areas: Wilmot Centre
- Schedule Y~~X~~: Regional Municipality of Waterloo Surface Water Systems: Index Map
- Schedule Z~~Y~~: Regional Municipality of Waterloo Surface Water Systems: Map A
- Schedule AA~~Z~~: Regional Municipality of Waterloo Surface Water Systems: Map B

Reference to the vulnerable areas has not been included in the sidebar information for the Regional Municipality of Waterloo Source Protection Plan policies. This information is contained in the respective policies, if applicable.

10.1 Definitions

General definitions are provided in Volume I of the Source Protection Plan or the *Clean Water Act, 2006*. The following definitions shall apply to the Regional Municipality of Waterloo Source Protection Plan policies:

Term	Definition
Conditions	Are referred to in section 15(2)(g) of the *Clean Water Act, 2006* and are identified in the Grand River Source Protection Area Assessment Report as resulting from past activities and that are significant drinking water threats.
Condition Sites	Locations where conditions are present.
Emergency Response Plan	A municipal emergencies plan developed in accordance with the Emergency Management and Civil Protection Act.
Existing	a. An activity engaged in at a particular location in a vulnerable area on the effective date of this source protection plan; or b. When an activity was engaged in at a particular location within a vulnerable area at any time within five (5) years prior to the effective date of this Source Protection Plan but not on the day before the effective date of this Source Protection Plan and within 5 years following the effective date of this Source Protection Plan such activity is proposed to be resumed; or c. A replacement facility or structure of similar size and capacity to service an existing activity.
Future or New	An activity that is not existing as defined within the Regional Municipality of Waterloo Source Protection Plan policies.
Large Parking Lot	For all surface parking areas on site with a total greater than or equal to eighty (80) parking spaces or with a paved area, including aisles and driveways, measuring greater than or equal to 2000 metres squared.
Large Septic System	A single or combination of septic systems regulated under the Ontario Water Resources Act.
Medium Parking Lot	For all surface parking areas on site with a total greater than eight (8) and less than eighty (80) parking spaces or with a paved area including aisles and driveways measuring greater than 200 and less than 2000 metres squared.
Salt	Any solid or liquid chloride-based chemical used to melt ice.
Uncovered Salt Storage	Storage and handling are directly exposed to the elements with the exception of salt stored in sealed bags.
Covered Salt Storage	Storage and handling are not directly exposed to the elements; this includes salt stored in sealed bags.
Small Parking Lot	For all surface parking areas on site with a total of less than or equal to eight (8) parking spaces or with a paved area including aisles and driveways measuring less than or equal to 200 metres squared.
Small Septic System	A septic system regulated under the Ontario Building Code Act.
Stormwater Management Facility	Any stormwater infrastructure for the treatment, retention, infiltration or control of stormwater including but not limited to ponds, unlined trenches, etc. but excluding piped stormwater sewers.
Tier 3 Water Budget	The Centre Wellington Tier 3 Water Budget and Local Area Risk Assessment as required under the *Clean Water Act, 2006*.

Term	Definition
Transport Pathways	A condition of land resulting from human activity that increases the vulnerability of a raw water supply or drinking water system set out in clause 15(2)(e) of the Clean Water Act, 2006. This can include constructed pathways such as, improperly abandoned boreholes, improperly maintained or improperly abandoned wells, pits and quarries, geothermal systems, underground parking lots and excavations. This does not include low-density residential basements or subsurface utility corridors.

10.2 Regional Municipality of Waterloo Source Protection Plan Policies

Policy Number	Source Protection Plan Policies within the Regional Municipality of Waterloo
Implementation Timing	
RW-CW-1.1.1 *Implementation & Timing*	This source protection plan came into effect on July 1, 2016, the effective date specified in the Notice of Approval posted on the Environmental Bill of Rights Registry. Amendments to the Source Protection Plan are permitted in accordance with the *Clean Water Act, 2006,* and the General Regulations. The effective date for amended policies, only including but not limited to the addition of new drinking water threats and regulated areas and activities, is the date specified in the posting of the Notice of Approval of the amendment provisions on the Environmental Bill of Rights Registry
RW-CW-1.1.2 *Implementation & Timing*	Except as set out below and/or where established in individual policies, the policies contained in this Source Protection Plan shall come into effect on the date set out by the Minister: a. For Section 57 of the *Clean Water Act, 2006*, if an activity was engaged in at a particular location before the relevant policies within the Source Protection Plan took effect, policies regarding prohibited activities do not apply to a person who engages in the activity at that location until 180 days from the date the Source Protection Plan takes effect; b. For Section 58 of the *Clean Water Act, 2006* if: i. an activity was engaged in at a particular location immediately before the relevant policies within this Source Protection Plan took effect; ii. the Risk Management Official gives notice to a person who is engaged in the activity at that location that, in the opinion of the Risk Management Official, policies regarding regulated activities should apply to the person who engages in the activity at that location on and after a date specified in the notice that is at least 120 days after the date of the notice. c. For Section 59 of the *Clean Water Act, 2006,* policies regarding restricted land uses shall come into effect the same day the relevant policies within the Source Protection Plan takes effect; d. Where the Source Protection Policies require the development and implementation of education and outreach programs under section 22(7) of the *Clean Water Act, 2006,* and incentive programs and specified action policies for significant drinking water threats, such programs and actions shall be developed and implemented within five (5) years from the date the relevant policies within the Source Protection Plan takes effect.

Policy Number	Source Protection Plan Policies within the Regional Municipality of Waterloo
RW-MC-1.2 *Implementation & Timing*	Except as set out below, the policies contained in this Source Protection Plan shall come into effect on the date set out by the Minister: a. For Sections 43 of the *Clean Water Act, 2006,* if an activity was engaged in at a particular location immediately before relevant policies within this Source Protection Plan took effect, amendments to Prescribed Instruments shall be completed within three (3) years from the date the Source Protection Plan takes effect; b. For Sections 40 and 42 of the *Clean Water Act, 2006,* the Council of the Regional Municipality of Waterloo and the Area Municipalities shall adopt an Official Plan Amendment to conform with the relevant significant threat policies within five (5) years from the date the relevant policies within the Source Protection Plan comes into effect or the next Official Plan review required under Section 26 of the *Planning Act* whichever comes first. All Zoning By-law Amendments to conform with the relevant significant threat policies shall be completed within two (2) years from the adoption of the Official Plan conformity amendment.
Use and Areas Designated as Restricted Land Use Policies	
RW-CW-1.3 *Part IV- RLU*	In accordance with Section 59 of the *Clean Water Act, 2006,* all land uses identified within the Regional Municipality of Waterloo Official Plan and the Area Municipal Official Plan and Area Municipal Zoning By-laws are designated as land uses to which the restricted land uses provisions of the *Clean Water Act, 2006* apply where activities are or would be a significant drinking water threat. Despite the above policy, a Risk Management Official may issue written direction specifying the situations under which a planning authority or building official may be permitted to make the determination that a site specific land use, building or construction is not designated for the purposes of section 59. Where such direction has been issued, a site specific land use, building or construction that is the subject of an application for approval under the Planning Act, Condominium Act or for a permit under the Building Code Act is not designated for the purposes of Section 59, provided that the planning authority or building official, as applicable, is satisfied that: a. The application complies with the written direction issued by the Risk Management Official; and b. The applicant has demonstrated that a significant drinking water threat activity designated for the purposes of section 57 or 58 will not be engaged in, or will not be affected by the application.
Official Plan Amendment(s) Policies	
RW-MC-1.4 *Future Land Use Planning*	The Regional Municipality of Waterloo and the Area Municipalities shall amend their Official Plan where necessary to conform with the significant drinking water threat policies, in accordance with Section 40 of the *Clean Water Act*, 2006 to: a. Identify the vulnerable areas in which drinking water threats prescribed under the *Clean Water Act, 2006* are or would be significant; b. Indicate that within the areas identified, any use that is or would be a significant drinking water threat is required to conform with all applicable

Policy Number	Source Protection Plan Policies within the Regional Municipality of Waterloo
	Source Protection Plan policies and, as such, may be prohibited, restricted or otherwise regulated by those policies; c. Incorporate any other amendments required to conform to the threat specific land use policies contained in this Source Protection Plan.
Education and Outreach and Incentive Programs Policies	
RW-CW-1.5 *Existing/Future Education & Outreach*	To support the significant drinking water threat policies contained within this Source Protection Plan, the Regional Municipality of Waterloo, in collaboration with other bodies and levels of government where possible including but not limited to Area Municipalities, Grand River Conservation Authority and the provincial and federal agencies and/or organizations, shall develop and implement education and outreach programs. Where an existing education and outreach program appropriately addresses the policies of this plan, the Regional Municipality of Waterloo may use the existing program to fulfill the policy requirements. Additional information on specific education and outreach programs can be found in the policies in this Source Protection Plan.
RW-CW-1.6 *Existing/Future Incentives*	To support the significant drinking water threat policies contained within this Source Protection Plan, the Regional Municipality of Waterloo, in collaboration with other bodies and levels of government, where possible, shall develop and implement incentive programs applied to significant threats as identified in specific policies in this Source Protection Plan in accordance with applicable legislation. Where an existing incentive program appropriately addresses the policies of this plan, the Regional Municipality of Waterloo may use the existing program to fulfill the policy requirements. Where incentives are available and where Risk Management Plans and/or Prescribed Instruments are identified for an existing activity, the incentives may be used to implement required beneficial management practices in accordance with applicable legislation. Specific incentive policies in this Source Protection Plan are to adhere to the general approach stated in this policy.
RW-NB-1.7 *Existing/Future Incentive*	The Ministry of the Environment, Conservation and Parks is requested to provide ongoing funding and support for incentive programs under section 22(7) of the *Clean Water Act, 2006* to protect existing and new drinking water sources and address significant drinking water threats, such as the Ontario Drinking Water Stewardship Program.
Annual Reporting	
RW-CW-1.8 *Monitoring*	The Regional Municipality of Waterloo and the Area Municipalities shall provide a report to the Source Protection Authority, by February 1st of each year, summarizing the actions taken in accordance with section 46 of the *Clean Water Act, 2006* to implement the Source Protection Plan policies.
RW-CW-1.9 *Monitoring*	The Regional Municipality of Waterloo and Area Municipalities shall provide copies of the notice of adoption to the Source Protection Authority regarding amendments to the Official Plan and Zoning By-laws for conformity with policies in the Plan within thirty (30) days of the adoption of the amendments by their respective Councils.
RW-CW-1.10 *Monitoring*	The Risk Management Official shall provide a report to the Source Protection Authority, by February 1st of each year, summarizing the actions taken by the Risk Management Official(s) and Inspector(s) in accordance with the *Clean Water Act, 2006* and associated regulations.

Policy Number	Source Protection Plan Policies within the Regional Municipality of Waterloo
RW-CW-1.12 *Monitoring*	Where the Source Protection Plan policies require a Provincial Ministry to undertake an activity under the Environmental Compliance Approval process or review, issue or amend a Prescribed Instrument, the applicable Provincial Ministry should: a. Provide a copy of the Prescribed Instruments to the Regional Municipality of Waterloo; b. Provide a written report to the Region of Waterloo and the Source Protection Authority summarizing where Prescribed Instruments have been issued and/or amended and for each instrument a summary of the conditions included for source protection purposes.
Transition Policy	
RW-MC-1.13 *Transition*	For the purposes of the Regional Municipality of Waterloo Source Protection Plan policies, where one or more of the following has been received prior to the Source Protection Plan coming into effect: a. A complete application for site plan approval under the *Planning Act*; b. A complete application for Environmental Compliance Approval; c. A complete application for a Building Permit. A related significant threat activity shall be permitted subject to the policies pertaining to existing significant threat activity as well as any further development applications and approvals required under the *Planning Act, Condominium Act*, Building Permit or Prescribed Instruments required to implement the development proposal associated with this significant threat activity. Where the above noted applications have lapsed or been withdrawn, this policy will no longer apply.
Interpretation	
RW-CW-1.14 *Interpretation of Source Protection Plan*	The Source Protection Plan provides policies to meet the objectives of the *Clean Water Act*, *2006*. The Source Protection Plan consists of the written policy text and Schedules. a. The Schedules in the Source Protection Plan identify the areas where the policies of the Source Protection Plan apply. The boundaries for the Specific Circumstances shown on the Plan Schedules are general. More detailed interpretation of the boundaries relies on the mapping in the approved Assessment Report and the Specific Circumstances found in the Tables of Drinking Water Threats, *Clean Water Act*, *2006*; b. Where any Act or portion of an Act, regulation, policy statement or guideline (collectively "Act") of the Ontario Government or Canadian Government is referenced in this Plan, such reference shall be interpreted to refer to any subsequent re-naming of sections in the Act, amendments to the Act, or successor thereof. No provision of this Plan shall be interpreted to derogate from any applicable law.
Conditions Policies	

Policy Number	Source Protection Plan Policies within the Regional Municipality of Waterloo
RW-MC-1.16 *Existing Prescribed Instr. Conditions*	To address conditions resulting from past activities that are significant drinking water threats, the Ministry of the Environment, Conservation and Parks shall: a. Ensure that all Prescribed Instruments issued for Condition Sites include terms and conditions, as appropriate, to ensure that the risk to drinking water sources is managed. Appropriate conditions may include requirements for source control, remediation to provincial standards, monitoring and Contaminant Management Plans; b. Ensure that Prescribed Instruments include a condition requiring the instrument holder to report on the actions taken and the status of the site to the Ministry of the Environment, Conservation and Parks Source Protection Authority and the municipality on an annual basis; c. Provide to The Regional Municipality of Waterloo a copy of the new or revised Prescribed Instrument.
RW-NB-1.17 *Existing Specify Action Conditions*	To address Conditions resulting from past activities that are significant drinking water threats, the Ministry of the Environment, Conservation and Parks should prioritize abatement activities on Conditions Sites located within the Wellhead Protection Area A, Wellhead Protection Area B and Issues Contributing Areas.
RW-MC-1.18 *Conditions Land Use Planning*	To address known Condition Sites that are significant drinking water threats resulting from past activities, the Regional Municipality of Waterloo and Area Municipalities shall require, as a component of a complete application under the *Planning Act,* the completion of an environmental screening process using a contaminated sites protocol. The contaminated sites protocol will outline the criteria when a Record of Site Condition (RSC) or other conditions will be required as part of the *Planning Act* application and shall be consistent with the Region of Waterloo contaminated sites protocol. The contaminated sites protocol will decrease the opportunity for contamination to leave the site and remove the property from the list of significant conditions over time.
RW-CW-1.20 *Existing Specify Action Conditions*	The Area Municipality shall provide to the Regional Municipality of Waterloo any documents or records in possession or control of the municipality relating to soil and groundwater contamination on Condition Sites for the following areas: i. In Wellhead Protection Areas A and B where the vulnerability equals or is greater than eight (8); or ii. Where there is a Trichloroethylene (TCE) Issue, in all Wellhead Protection Areas where the vulnerability is greater than or equal to six (6).
RW-NB-1.21 *Existing Specify Action Conditions*	To address conditions resulting from past activities that are significant drinking water threats the Ministry of the Environment, Conservation and Parks and the Regional Municipality of Waterloo: a. Shall meet at a minimum frequency of every six months for the purpose of mutually sharing information on Condition sites; b. Should mutually share information related, as appropriate, to technical investigations or remediation, technical data, actions taken by Ministry of the Environment, Conservation and Parks or by The Regional Municipality of Waterloo, inspections, other relevant information; and c. Should develop an Information-Sharing Process document including requirements, if any, for meeting agendas, participants, the nature and format for the types of information to be mutually shared, and the

Policy Number	Source Protection Plan Policies within the Regional Municipality of Waterloo
	Information-Sharing Process document should be developed within six months from the date the Source Protection Plan takes effect.
Strategic Action Policies	
Spill Prevention, Spill Contingency or Emergency Response Plans	
RW-NB-1.22 *Existing/Future Specify Action*	To ensure Emergency Response Plans are updated for the purpose of protecting drinking water sources with respect to spills that occur within a Wellhead Protection Area or Intake Protection Zone along highways under the *Highway Traffic Act* and/or railway lines, the following policies apply: a. Within one (1) year of the Source Protection Plan coming into effect, the Regional Municipality of Waterloo and Area Municipalities are requested to incorporate the location of Wellhead Protection Areas and Intake Protection Zones into the Emergency Response Plan to protect drinking water sources when a spill occurs along highways and/or railway; b. Within six (6) months of the Source Protection Plan coming into effect, the Source Protection Authority in collaboration with the Ministry of the Environment, Conservation and Parks is requested to provide mapping of vulnerable areas to assist the Spills Action Centre in responding to reported spills along highways and/or rail lines.
Transport Pathways	
RW-NB-1.23 *Future Specify Action*	The Regional Municipality of Waterloo and Area Municipalities should amend their Official Plans to require the assessment and mitigation of impacts of the establishment of transport pathways associated with *Planning Act* applications in Wellhead Protection Areas A and B where the vulnerability is equal to ten (10), in accordance with the Regional Implementation Guideline for Source Water Protection Studies to the satisfaction of the Regional Municipality of Waterloo.
RW-NB-1.24 *Future Specify Action*	The Area Municipalities are requested to circulate to the Regional Municipality of Waterloo all development applications including site plan approval, proposing to create a transport pathway in Wellhead Protection Areas A, B and C and in their decision to approval such applications consider the comments relative to Source Protection from the Regional Municipality of Waterloo.
RW-NB-1.25 *Existing/Future Specify Action*	The Regional Municipality of Waterloo and Area Municipalities are requested to update their Regional Municipality of Waterloo and Area Municipalities Design Guidelines and Supplemental Specifications for Municipal Services document within two (2) years from the date the Source Protection Plan takes effect to consider Source Protection and to provide enhanced construction standards for transport pathways within Wellhead Protection Areas A and B to ensure that they do not contribute to the creation of significant drinking water threats.
Provincial Ministry Consultation on Prescribed Instruments	
RW-NB-1.26 *Existing/Future Prescribed Instruments*	The Ministry of Environment, Conservation and Parks the Ministry of Agriculture, Food and Rural Affairs and the Ministry of Natural Resources and Forestry for Prescribed Instruments for significant drinking water threats within vulnerable areas and/or for locations where a Condition is identified, should advise the Regional Municipality of Waterloo regarding applications under review and provide the Regional Municipality of Waterloo an opportunity to comment on these applications. The relevant Ministry should consider the comments submitted by the Regional Municipality of Waterloo.

Policy Number	Source Protection Plan Policies within the Regional Municipality of Waterloo
Prescribed Instruments Issued Under the Nutrient Management Act	
RW-MC-1.27 *Existing/Future Prescribed Instr.*	Any Prescribed Instrument issued under the *Nutrient Management Act* that is created or amended or is used for the purposes of obtaining an exemption from a Risk Management Plan under Section 61 of O. Reg. 287/07 shall incorporate terms and conditions that, when implemented, manage the activities they regulate such that those activities cease to be or never become a significant drinking water threat. The Ministry of Agriculture, Food and Rural Affairs is expected to review all Prescribed Instruments issued under the *Nutrient Management Act* in areas where the activities they regulate are or would be significant drinking water threats to ensure the Prescribed Instruments contain such terms and conditions including the Prescribed Instruments that are not directly created or issued by the Ministry of Agriculture, Food and Rural Affairs such as Nutrient Management Plans.

10.3 Policies Addressing Prescribed Drinking Water Threats

Policy Number	Policies Addressing Prescribed Drinking Water Threats within the Regional Municipality of Waterloo
1. Establishment, Operation or Maintenance of a Waste Disposal Site, within the Meaning of Part V of the *Environmental Protection Act*	
RW-MC-2 *Existing/Future Prescribed Instr.*	For existing and/or future waste disposal sites within the meaning of Part V of the *Environmental Protection Act* within vulnerable areas where this activity is or would be a significant drinking water threat: a. The Ministry of the Environment, Conservation and Parks shall prohibit, within the Environmental Compliance Approvals process, the establishment of a new waste disposal site in the following vulnerable areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10) for the application of hauled sewage to land, land farming of petroleum waste, landfilling of hazardous waste, and storage of hazardous or Polychlorinated Biphenyl (PCB) waste at landfills or transfer stations; ii. In Wellhead Protection Areas A, B and C where the vulnerability is greater than or equal to eight (8) for the injection of liquid industrial waste, landfilling of municipal waste and/or solid non-hazardous waste; iii. In Intake Protection Zone One (1) for the application of hauled sewage to land, land-farming of petroleum waste, or landfilling of municipal waste, solid non-hazardous waste, and/or hazardous waste, and storage of hazardous, or PCB waste at landfills or transfer stations; iv. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is equal to nine (9) for the application of hauled sewage to land, land-farming of petroleum waste, or landfilling of municipal waste, solid non-hazardous waste, and/or hazardous waste, and storage of hazardous waste at landfills or transfer stations; v. In Wellhead Protection Area E where the vulnerability is greater than nine (9) for the application of hauled sewage to land, land-farming of petroleum waste, or landfilling of municipal waste, solid non-hazardous waste, and/or hazardous waste, and storage of hazardous waste at landfills or transfer stations ; vi. Where a Nitrate Issue has been identified, in all Issue Contributing Areas for landfilling of municipal waste and/or solid non-hazardous waste;

Policy Number	Policies Addressing Prescribed Drinking Water Threats within the Regional Municipality of Waterloo
	vii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas for the application of hauled sewage; viii. Where a Trichloroethylene Issue has been identified, in all Wellhead Protection Areas for the injection of liquid industrial waste, landfilling of municipal waste and/or solid non-hazardous waste. b. The Ministry of the Environment, Conservation and Parks shall ensure that the Environmental Compliance Approval that governs an existing waste disposal site contains appropriate terms and conditions to ensure that the activity ceases to be a significant drinking water threat. The Environmental Compliance Approval should include annual reporting to the Ministry of the Environment, Conservation and Parks of water quality monitoring in related groundwater monitoring wells and surface water monitoring locations as appropriate in the following vulnerable areas where the following activities are identified as a significant drinking water threat: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10) for the application of hauled sewage to land, land-farming of petroleum waste, landfilling of hazardous waste, and storage of hazardous or Polychlorinated Biphenyl (PCB) waste at landfills or transfer stations; ii. In Wellhead Protection Areas A, B and C where the vulnerability is greater than or equal to eight (8) for the injection of liquid industrial waste, landfilling of municipal waste and/or solid non-hazardous waste; iii. In Intake Protection Zone One (1) for the application of hauled sewage to land, land-farming of petroleum waste, or landfilling of municipal waste, solid non-hazardous waste, and/or hazardous waste and storage of hazardous or Polychlorinated Biphenyl (PCB) waste at landfills or transfer stations; iv. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is equal to or greater than eight (8) for the application of hauled sewage to land; v. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is equal to nine (9) for the land-farming of petroleum waste, or landfilling of municipal waste, solid non-hazardous waste, and/or hazardous waste, and storage of hazardous waste at landfills or transfer stations ; vi. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8) for the application of hauled sewage to land; vii. In Wellhead Protection Area E where the vulnerability is greater than nine (9) for the land-farming of petroleum waste, or landfilling of municipal waste, solid non-hazardous waste, and/or hazardous waste, and storage of hazardous waste at landfills or transfer stations; viii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas for landfilling of municipal waste and/or solid non-hazardous waste; ix. Where a Nitrate Issue has been identified, in all Issue Contributing Areas for the application of hauled sewage; x. Where a Trichloroethylene Issue has been identified, in all Wellhead Protection Areas for the injection of liquid industrial waste, landfilling of municipal waste and/or solid non-hazardous waste. Where there is a Nitrate Issue, the Environmental Compliance Approval for landfilling of municipal waste and/or solid non-hazardous waste, should include annual reporting to the Ministry of the Environment, Conservation and Parks and monitoring for nitrogen as appropriate.

Policy Number	Policies Addressing Prescribed Drinking Water Threats within the Regional Municipality of Waterloo
	Where there is a Nitrate Issue, the Environmental Compliance Approval for the application of hauled sewage should include annual reporting to the Ministry of the Environment, Conservation and Parks and monitoring for nitrogen as appropriate. Where there is a Trichloroethylene Issue, the Environmental Compliance Approval for the injection of liquid industrial waste, landfilling of municipal waste and/or solid non-hazardous waste should include annual reporting to the Ministry of the Environment, Conservation and Parks and monitoring for trichloroethylene and degradation products as appropriate. c. The Ministry of the Environment, Conservation and Parks shall ensure that the Environmental Compliance Approval that governs existing or new temporary waste destruction units for polychlorinated biphenyl contains appropriate terms and conditions to ensure that the activity ceases to be or does not become be a significant drinking water threat. The Environmental Compliance Approval should include annual reporting to the Ministry of the Environment, Conservation and Parks of water quality monitoring in related groundwater monitoring wells and surface water monitoring locations as appropriate in the following vulnerable areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Intake Protection Zone One (1).
RW-CW-3 *Future* *Part IV- Prohibit*	To ensure that the establishment, operation and maintenance of ~~a~~an new waste disposal site within the meaning of Part V of the *Environmental Protection Act* and exempt from Environmental Compliance Approvals does not become a significant drinking water threat, where this activity would be a significant drinking threat, this activity is designated for the purpose of Section 57 of the *Clean Water Act, 2006* and is prohibited within the following vulnerable areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10) for the application of hauled sewage to land, land-farming of petroleum waste, landfilling of hazardous waste, and storage of hazardous, or Polychlorinated Biphenyl (PCB) waste at landfills or transfer stations; ii. In Wellhead Protection Areas A, B and C where the vulnerability is greater than or equal to eight (8) for the injection of liquid industrial waste, landfilling of municipal waste and/or solid non-hazardous waste; iii. In Intake Protection Zone One (1) for the application of hauled sewage to land, land-farming of petroleum waste, or landfilling of municipal waste, solid non-hazardous waste, and/or hazardous waste; and storage of hazardous or PCB waste at landfills or transfer stations; iv. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is equal to or greater than eight (8) for the application of hauled sewage to land; v. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is equal to nine (9) for the land-farming of petroleum waste, or landfilling of municipal waste, solid non-hazardous waste, and/or hazardous waste, and storage of hazardous waste at landfills or transfer stations; vi. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8) for the application of hauled sewage to land;

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	vii. In Wellhead Protection Area E where the vulnerability is greater than nine (9) for the land-farming of petroleum waste, or landfilling of municipal waste, solid non-hazardous waste, and/or hazardous waste, and storage of hazardous waste at landfills or transfer stations; viii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas for landfilling of municipal waste and/or solid non-hazardous waste; ix. Where a Nitrate Issue has been identified, in all Issue Contributing Areas for the application of hauled sewage; x. Where a Trichloroethylene Issue has been identified, in all Wellhead Protection Areas for the injection of liquid industrial waste, landfilling of municipal waste and/or solid non-hazardous waste.
RW-CW-4 *Existing Part IV- RMP*	To ensure that the operation and maintenance of an existing waste disposal site within the meaning of Part V of the *Environmental Protection Act* and exempt from Environmental Compliance Approvals ceases to be a significant drinking water threat, where this activity is a significant drinking water threat, this activity shall be designated for the purpose of Section 58 of the *Clean Water Act, 2006* and a Risk Management Plan shall be required, within the following vulnerable areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10) for the application of hauled sewage to land, land-farming of petroleum waste, the landfilling of hazardous waste, and storage of hazardous, Polychlorinated Biphenyl (PCB) or liquid hazardous waste at landfills and transfer stations; ii. In Wellhead Protection Areas A, B and C where the vulnerability is greater than or equal to eight (8) for the injection of liquid industrial waste, landfilling of municipal waste and/or solid non-hazardous waste; iii. In Intake Protection Zone One (1) for the application of hauled sewage to land, land-farming of petroleum waste, or landfilling of municipal waste, solid non-hazardous waste, and/or hazardous waste, and storage of hazardous or PCB waste at landfills and transfer stations; iv. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is equal to or greater than eight (8) for the application of hauled sewage to land; v. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is equal to nine (9) for the land-farming of petroleum waste, or landfilling of municipal waste, solid non-hazardous waste, and/or hazardous waste, and storage of hazardous waste at landfills or transfer stations; vi. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8) for the application of hauled sewage to land; vii. In Wellhead Protection Area E where the vulnerability is greater than nine (9) for the land-farming of petroleum waste, or landfilling of municipal waste, solid non-hazardous waste, and/or hazardous waste, and storage of hazardous waste at landfills or transfer stations; viii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas for landfilling of municipal waste and/or solid non-hazardous waste; ix. Where a Nitrate Issue has been identified, in all Issue Contributing Areas for the application of hauled sewage; x. Where a Trichloroethylene Issue has been identified, in all Wellhead Protection Areas for the injection of liquid industrial waste, landfilling of municipal waste and/or solid non-hazardous waste.
RW-CW-5	To promote best management practices and to provide guidance about the importance of source water protection, the Regional Municipality of Waterloo shall

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Existing/Future Education & Outreach	develop education and awareness programs for persons engaged in existing and new activities in the following areas i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10) for the storage of hazardous, Polychlorinated Biphenyl (PCB) or small quantity exemptions of hazardous wastes or liquid industrial wastes at any type of disposal site including generators, receivers and transfer/processing sites; ii. In Intake Protection Zone 1 for the storage of hazardous, PCB or small quantity exemptions of hazardous wastes or liquid industrial wastes at any type of disposal site including generators, receivers and transfer/processing sites.
2. Establishment, Operation or Maintenance of a System That Collects, Stores, Transmits, Treats or Disposes of Sewage	
Sewage System or Sewage Works- Onsite Sewage System Sewage System or Sewage Works- Onsite Sewage System Holding Tank	
RW-MC-6 *Future Land Use Planning*	To ensure small onsite sewage systems and onsite sewage system holding tanks do not become significant drinking water threats, the Regional Municipality of Waterloo and the Area Municipalities shall amend, where required, their Official Plans to prohibit the creation of new lots that rely on servicing by small septic systems and/or to require all new lots to connect to existing municipal wastewater services within the following areas: i. In Wellhead Protection Area A; ii. In Wellhead Protection Area B where the vulnerability is equal to ten (10) for municipal wells which are designated under the *Safe Drinking Water Act* as Groundwater Under the Direct Influence of surface water (GUDI); iii. Where a Nitrate Issue has been identified, within Wellhead Protection Areas A, B, and C where the vulnerability is greater than or equal to eight (8); iv. Where a Nitrate Issue has been identified, for the K23 wellfield, in the Issue Contribution Area where the vulnerability is equal to six (6).
RW-MC-7 *Future Land Use Planning*	To ensure small onsite sewage systems and onsite sewage system holding tanks do not become significant drinking water threats, the Regional Municipality of Waterloo and the Area Municipalities shall amend where required their Official Plans to permit the creation of a new lot relying on servicing by a new small onsite sewage system only in accordance with the Regional Implementation Guideline for Source Water Protection Studies to the satisfaction of the Regional Municipality within the following areas: i. In Wellhead Protection Area B where the vulnerability is to equal ten (10) for municipal wells which are not designated under the *Safe Drinking Water Act* as Groundwater Under the Direct Influence of surface water (GUDI); ii. Where a Nitrate Issue has been identified, in Issue Contributing Areas where the vulnerability is less than or equal to six (6); iii. .
RW-CW-8 *Existing/Future*	To ensure small onsite sewage systems and holding tanks cease to be or do not become significant drinking water threats, where these activities are or would be significant drinking water threats, the Area Municipalities shall implement a septic

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Specify Action	system maintenance inspection program, as required under the *Ontario Building Code* for the following areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas.
RW-CW-8.1 *Existing Incentive*	To promote best management practices and to provide guidance about the importance of source water protection the Regional Municipality of Waterloo shall develop and implement an incentive program for persons with existing small onsite sewage systems and holding tanks where they are significant for the following area:s: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas. iii.
RW-MC-9 *Future Prescribed Instr.*	To ensure new large onsite sewage systems do not become a significant drinking water threat, where this activity would be a significant drinking water threat, the Ministry of the Environment, Conservation and Parks shall prohibit, within the Environmental Compliance Approvals process, new large septic systems in the following areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is greater than or equal to six (6).
RW-MC-10 *Existing/Future Prescribed Instr.*	To ensure existing and new large onsite sewage systems cease to be or do not become significant drinking water threats, where this activity is or would be a significant drinking water threat, the following policies apply: a. The Ministry of the Environment, Conservation and Parks shall ensure that the Environmental Compliance Approval for an existing large onsite sewage system contains terms and conditions as appropriate to ensure that the activity ceases to be a significant drinking water threat in the following vulnerable areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas. b. The Ministry of the Environment, Conservation and Parks shall ensure that the Environmental Compliance Approval for a new large onsite sewage system contains terms and conditions as appropriate to ensure that the activity never becomes a significant drinking water threat in the following vulnerable areas: i. Where a Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is less than six (6). ii.

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	The Environmental Compliance Approval should include annual reporting to the Ministry of the Environment, Conservation and Parks of water quality monitoring in related monitoring wells. For Issue Contributing Areas, the Environmental Compliance Approval should require applicable chemical effluent criteria established using Ministry of the Environment, Conservation and Parks Reasonable Use Policy (Guideline B-7) relative to water quality levels in the municipal aquifer as appropriate.
Sewage System or Sewage Works- Sewage Storage -Treatment or Holding tanks Sewage System or Sewage Works- Sewage Treatment Plant Effluent Discharges (includes lagoons) Sewage System or Sewage Works – Industrial Effluent Discharge Sewage System or Sewage Works- Sewage Treatment Plant Bypass Discharge to Surface Water	
RW-MC-11 *Future Prescribed Instr.*	For future effluent discharges from a sewage treatment plant, including lagoons and future below grade storage of sewage and industrial effluent discharge located within the following vulnerable areas and where this activity would be a significant drinking water threat, the following policies apply: The Ministry of the Environment, Conservation and Parks shall prohibit the following activities within the Environmental Compliance Approval process to ensure these activities do not become a significant drinking water threat: a. Sewage treatment plant effluent discharge including lagoons; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Intake Protection Zone One (1); iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is greater than or equal to six (6). b. Storage of sewage (treatment tank or storage tank) where the tank is completely underground; i. In Wellhead Protection Areas A, B and C where the vulnerability is greater than or equal to eight (8); ii. In Intake Protection Zone One (1); iii. Where a Nitrate and/or Trichloroethylene Issue has been identified, in all Wellhead Protection Areas where the vulnerability is greater than or equal to six (6). c. Industrial effluent discharge to surface; i. In Intake Protection Zone One (1).
RW-MC-11.1 *Existing/Future Prescribed Instr.*	The Ministry of the Environment, Conservation and Parks shall ensure that the Environmental Compliance Approval that governs the following existing or future activities contain terms and conditions, as appropriate, to ensure that the activity does not become and/or ceases to be a significant drinking water threat to groundwater and drinking water supplies within the specified vulnerable areas: a. Existing: i. Sewage treatment plant effluent discharges including lagoons; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10);

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	ii. In Wellhead Protection Area E where the vulnerability is greater than eight (8); iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is greater than or equal to six (6); iv. Where a Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is less than six (6); v. In Intake Protection Zone One (1); vi. In Intake Protection Zone Two and Three (3) where the vulnerability is greater than or equal to eight (8). ii. Storage of sewage (treatment tank or storage tank) where the tank is completely underground; i. In Wellhead Protection Area A, B and C where the vulnerability is greater than or equal to eight (8); ii. In Intake Protection Zone One (1); iii. Where a Nitrate and/or Trichloroethylene Issue has been identified, in Issue Contributing Areas where the vulnerability is greater than or equal to six (6); iv. Where a Nitrate and/or Trichloroethylene Issue has been identified, in all Issue Contributing Areas where the vulnerability is less than six (6). iii. Storage of sewage (treatment tank or storage tank) and any part of the tank is at or above grade; i. In Wellhead Protection Areas A, B and C where the vulnerability is greater than or equal to eight (8); ii. In Intake Protection Zone One (1); iii. Where a Nitrate and/or TCE Issue has been identified, in all Issue Contributing Areas where the vulnerability is greater than or equal to six (6); iv. Where a Nitrate and/or Trichloroethylene Issue has been identified, in all Issue Contributing Areas where the vulnerability is less than six (6). iv. Industrial effluent discharge to surface; i. In Intake Protection Zone One (1); ii. In Wellhead Protection Area E where the vulnerability is greater than eight (8); iii. Where a Nitrate, Chloride and/or Trichloroethylene Issue has been identified, in Wellhead Protection Area E where the vulnerability is greater than or equal to six (6); iv. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than or equal to eight (8). v. Sewage treatment plant bypass discharges to surface water i. In Intake Protection Zone One (1); ii. In Wellhead Protection Area E where the vulnerability is greater than eight (8); iii. Where a Nitrate and/or Trichloroethylene Issue has been identified, in Wellhead Protection Area E where the vulnerability is greater than or equal to six (6); iv.

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	v. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than or equal to eight (8). b. Future: i. Sewage treatment plant effluent discharges including lagoons; i. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than or equal to eight (8); ii. In Wellhead Protection Area E where the vulnerability is greater than eight (8); iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is less than or equal to six (6). ii. Storage of sewage (treatment tank or storage tank) where the tank is completely underground;; i. Where a Nitrate and/or Trichloroethylene Issue has been identified, in all Issue Contributing Areas where the vulnerability is less than six (6). iii. Storage of Sewage (treatment tank or storage tank) and any part of the tank is at or above grade; i. In all Wellhead Protection Areas A, B and C where the vulnerability is greater than or equal to eight (8); ii. In Intake Protection Zone One (1); iii. Where a Nitrate and/or Trichloroethylene Issue has been identified, in all Issue Contributing Areas where the vulnerability is greater than or equal to six (6); iv. Where a Nitrate and/or Trichloroethylene Issue has been identified, in all Issue Contributing Areas where the vulnerability is less than six (6). iv. Industrial effluent discharge to surface; i. In Wellhead Protection Area E where the vulnerability is greater than eight (8); ii. Where a Nitrate, Chloride and/or Trichloroethylene Issue has been identified, in Wellhead Protection Area E where the vulnerability is greater than or equal to six (6); iii. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than or equal to eight (8). v. Sewage treatment plant bypass discharges to surface water i. In Intake Protection Zone One (1); ii. In Wellhead Protection Area E where the vulnerability is greater than eight (8); iii. Where a Nitrate and/or Trichloroethylene Issue has been identified, in the Issue Contributing Area where the vulnerability is greater than or equal to six (6); iv. In the Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than or equal to eight (8). For storage of sewage, the terms and conditions should include, as a minimum, measures to reduce the likelihood of spills and leaks, measures to contain and

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	respond to spills and annual reporting to the Ministry of Environment, Conservation and Parks. For effluent discharge from a sewage treatment plant, including lagoons, the terms and conditions should include, as a minimum, monitoring for nitrogen where a Nitrate Issue has been identified, annual reporting to the Ministry of the Environment, Conservation and Parks of water quality monitoring in related groundwater monitoring wells, as appropriate, and contingency plans for responding to spills and leaks. For industrial effluent discharge to surface, the terms and conditions should include, as a minimum, measures to ensure facilities are maintained, contingency plans for responding to spills and leaks, and surface water monitoring for nitrogen where there is a Nitrate Issue.
Sewage System or Sewage Works- Sanitary Sewers and Related Pipes Sewage System or Sewage Works- Combined Sewer Discharge from a Stormwater Outlet to Surface Water	
RW-MC-12 *Existing/Future Prescribed Instr.*	For sanitary sewers and related pipes including pump stations located within the following vulnerable areas and where this activity is or would be a significant drinking water threat, the following policies apply: a. The Ministry of the Environment, Conservation and Parks shall ensure that the Environmental Compliance Approval for existing sanitary sewers and related pipes includes appropriate terms and conditions to ensure that the activity ceases to be a significant drinking water threat within the following areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is greater than or equal to six (6). b. The Ministry of the Environment, Conservation and Parks shall ensure that the Environmental Compliance Approval for new sanitary sewer and related pipes including pumping stations includes appropriate terms and conditions to ensure that the activity does not become a significant drinking water threat in the following areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. Where a Nitrate Issue has been identified, all Issue Contributing Areas where the vulnerability is greater than or equal to six (6). The Environmental Compliance Approval shall include contingency plans for responding to spills as appropriate. Within Wellhead Protection Area A, the Environmental Compliance Approval shall also include enhanced construction to reduce likelihood of leaks.
RW-CW-12.1 *Future Specify Action*	The Regional Municipality of Waterloo and Area Municipalities are requested to update their Regional Municipality of Waterloo and Area Municipalities Design Guidelines and Supplemental Specifications for Municipal Services document within two (2) years from the date the Source Protection Plan takes effect to require enhanced construction standards to ensure that the activity does not become a significant drinking water threat in the following areas:

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	i. In Wellhead Protection Area A.
RW-MC-13 *Existing/ Future Prescribed Instr.*	For combined sewers located within the following vulnerable areas and where this activity is or would be a significant drinking water threat, the following policies apply: a. The Ministry of the Environment, Conservation and Parks shall ensure that the Environmental Compliance Approval that governs existing combined sewers contains terms and conditions, as appropriate, to ensure that the activity ceases to be a significant drinking water threat to groundwater and drinking water supplies within the specified vulnerable areas: i. In Intake Protection Zone One (1); ii. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than or equal to eight (8); iii. In Wellhead Protection Area E where the vulnerability is greater than eight (8); iv. Where a Nitrate and/or Trichloroethylene Issue has been identified, in Wellhead Protection Area E where the vulnerability is greater than six (6).. b. The Ministry of the Environment, Conservation and Parks shall prohibit future combined sewers within the Environmental Compliance Approvals process to ensure they do not become a significant drinking water threat: i. In Intake Protection Zone One (1); ii. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than or equal to eight (8); iii. In Wellhead Protection Area E where the vulnerability is greater than eight (8); iv. Where a Nitrate and/or Trichloroethylene Issue has been identified, in Wellhead Protection Area E where the vulnerability is greater than six (6)..
RW-CW-14 *Existing Specify Action*	The Area Municipalities shall establish contingency plans for responding to spills for sanitary sewers and related pipes that are significant threats in the following areas: i. Where a Nitrate Issue has been identified, in Wellhead Protection Area E where the vulnerability is less than six (6).
Sewage System or Sewage Works- Discharge from a Stormwater Management Facility	
RW-MC-15 *Existing Prescribed Instr.*	For existing discharge from a stormwater management facility within vulnerable areas where this activity is a significant drinking water threat, the Ministry of the Environment, Conservation and Parks, in consultation with the owner of the stormwater management facility and following the completion of the assessment identified in policy RW-CW-19, shall ensure that the Environmental Compliance Approval that governs the stormwater management facility includes appropriate terms and conditions to ensure that the activity ceases to be a significant drinking water threat in the following vulnerable areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than or equal to eight (8); iv. In Intake Protection Zone One (1);

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	v. Where a Nitrate and/or Chloride Issue has been identified, in all Issue Contributing Areas.
RW-MC-16 *Future Prescribed Instr.*	To ensure the new discharge from a stormwater management facility does not become a significant drinking water threat within vulnerable areas where this activity would be a significant drinking water threat: a. The Ministry of the Environment, Conservation and Parks shall prohibit the new discharge from a stormwater management facility within the Environmental Compliance Approvals process in the following areas as appropriate: i. In Wellhead Protection Area A; ii. In Intake Protection Zone One (1). b. The Ministry of the Environment, Conservation and Parks shall ensure that the Environmental Compliance Approval that governs the new discharge from a stormwater management facility includes appropriate terms and conditions to ensure the activity does not become a significant drinking water threat when permitted in the following areas as appropriate: i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than or equal to eight (8); iv. Where a Nitrate and/or Chloride Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A. The Environmental Compliance Approval should include, as a minimum, water quality monitoring measures and reporting annually to the Ministry of the Environment, Conservation and Parks, as appropriate. Where there is a Nitrate, and/or Chloride Issue, groundwater and/or surface water quality shall be monitored for Nitrate and Chloride, respectively.
RW-MC-17 *Future Land Use Planning*	The Regional Municipality of Waterloo and the Area Municipalities shall review and, if necessary, amend their Official Plans and Zoning By-laws to prohibit stormwater management facilities in the following areas to ensure these activities never become significant drinking water threats: i. In Wellhead Protection Area A; ii. In Intake Protection Zone One (1).
RW-MC-18 *Future Land Use Planning*	The Regional Municipality of Waterloo and Area Municipalities shall review and, if necessary, amend their Official Plans to require any development proposals for new storm water management facilities shall be subject to a study to assess impact and mitigation measures in accordance with the Regional Implementation Guideline for Source Water Protection Studies to the satisfaction of the Regional Municipality of Waterloo within the following areas: i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than eight (8);

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	iii. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than eight (8); iv. Where a Nitrate and/or Chloride Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A. Where a proposed stormwater management pond is located within 500 metres of a Drinking Water System that obtains water from a bedrock aquifer, the study shall, as a minimum, assess changes in classification of the municipal supply well and or changes in hydrogeological conditions that could affect the pathogen vulnerability to the well.
RW-CW-19 *Existing* *Specify Action*	The Area Municipalities, in collaboration with the Regional Municipality of Waterloo and the Ministry of Environment, Conservation and Parks shall undertake an assessment of stormwater management facilities to determine appropriate scope and type of measures to protect drinking water sources within two (2) years from the date the Source Protection Plan takes effect to ensure that this activity ceases to be a significant drinking water threat in the following areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than eight (8); iii. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than or equal to eight (8); iv. Where a Chloride and/or Nitrate Issue has been identified, in all Issue Contributing Areas.
RW-CW-19.1 *Future* *Specify Action*	The Regional Municipality of Waterloo and Area Municipalities are requested to update their Regional Municipality of Waterloo and Area Municipalities Design Guidelines and Supplemental Specifications for Municipal Services document within two (2) years from the date the Source Protection Plan takes effect to require enhanced inspection and testing standards to ensure that stormwater management facilities do not become a significant drinking water threat in the following areas: i. In Wellhead Protection Area A and B where the vulnerability is equal to ten (10)
RW-CW-20 *Existing/Future* *a)Part IV-Prohibit* *b)Part IV-RMP*	To ensure the existing and future discharge from a stormwater management facility exempt from Environmental Compliance Approvals does not become or ceases to be a significant drinking water threat: a. The future discharge from a stormwater management facility within vulnerable areas where this activity would be a significant drinking water threat is designated for the purpose of Section 57 of the *Clean Water Act, 2006* and is prohibited within the following vulnerable areas where there is or would be a significant drinking water threat: i. In Wellhead Protection Area A; ii. In Intake Protection Zone One (1). b. The discharge from a stormwater management facility shall be designated for the purpose of Section 58 of the *Clean Water Act, 2006* and a Risk Management Plan shall be required with the persons or agencies engaging or proposing to engage in the following areas:

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	a. Existing: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. In Intake Protection Zone One (1); iv. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than or equal to eight (8); v. Where a Nitrate and/or Chloride Issue has been identified, in all Issue contributing Areas except Wellhead Protection Area A. b. Future: i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than or equal to eight (8); iv. Where a Nitrate and/or Chloride Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A. The Risk Management Plan shall include, as a minimum, water quality monitoring and reporting to the Risk Management Official. Where there is a Nitrate and/or Chloride Issue, the Risk Management Plan shall also include water quality monitoring for nitrate or chloride, respectively.
RW-CW-20.1 *Existing Incentive*	To promote best management practices and to provide guidance about the importance of source water protection, the Regional Municipality of Waterloo shall develop and implement an incentive program for persons engaging in the existing discharge of stormwater from a stormwater management facility exempt from Environmental Compliance Approvals in the following areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. In Intake Protection Zone One (1); iv. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than or equal to eight (8); v. Where a Nitrate and/or Chloride Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A.
3. The Application of Agricultural Source Material to Land **4. The Storage of Agricultural Source Material**	
RW-CW-21 *Existing/Future Part IV-Prohibit*	The existing and/or future application, temporary field storage or permanent storage of agricultural source material is designated for the purpose of Section 57 of the *Clean Water Act, 2006* and is prohibited within the following vulnerable areas where there is or would be a significant drinking water threat: a. Existing:

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	i. Temporary field storage; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Intake Protection Area One (1); iii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iv. Where a Nitrate Issue has been identified, in all Issue Contributing Areas. ii. Permanent storage; i. In Intake Protection Zone One (1). iii. Application; i. In Wellhead Protection Area A; ii. In Intake Protection Zone One (1). b. Future: i. Application; i. In Wellhead Protection Area A; ii. In Intake Protection Zone One (1). ii. Temporary field storage; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Intake Protection Zone One (1); iii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iv. Where a Nitrate Issue has been identified, in all Issue Contributing Areas. iii. Permanent storage; i. In Wellhead Protection Area A; ii. In Intake Protection Zone One (1).
RW-MC-21.1 *Existing/Future Prescribed Instr.*	To ensure that the exiting and/or future application, temporary field storage or permanent storage of agricultural source material cease to be or do not become a significant drinking water threat where the activities are or would be a significant threat, the Ministry of Agriculture, Food and Rural Affairs shall prohibit these activities through Nutrient Management Plans and Strategies to ensure they do not become a significant drinking water threat: a. Existing: i. Temporary field storage; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Intake Protection Area One (1); iii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iv. Where a Nitrate Issue has been identified, in all Issue Contributing Areas; ii. Permanent storage;

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	i. In Intake Protection Zone One (1). iii. Application; i. In Wellhead Protection Area A; ii. In Intake Protection Zone One (1). b. Future: i. Application; i. In Wellhead Protection Area A; ii. In Intake Protection Zone One (1). ii. Temporary field storage; i. In Wellhead Protection Areas A and B; ii. In Intake Protection Zone One (1); iii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iv. Where a Nitrate Issue has been identified, in all Issue Contributing Areas. iii. Permanent storage; i. In Wellhead Protection Area A; ii. In Intake Protection Zone One (1).
RW-MC-22 *Existing/Future Prescribed Instr.*	To ensure that the existing and/or future application and permanent storage of agricultural source material within vulnerable areas does not become or ceases to be a significant drinking water threat, the Ministry of Agriculture, Food and Rural Affairs shall review and, if necessary, amend existing and approve new Nutrient Management Plans and Strategies with the terms and conditions set out below, as appropriate, where required under, and in accordance with, the *Nutrient Management Act* for the following: a. Existing: i. Application; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A, where the vulnerability is greater than or equal to six (6). ii. Permanent Storage; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. ; iii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iv. Where a Nitrate Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A, where the vulnerability is greater than or equal to six (6). b. Future:

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	i. Application; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A, where the vulnerability is greater than or equal to six (6). ii. Permanent Storage; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A, where the vulnerability is greater than or equal to six (6). The Nutrient Management Plans and Strategies for the application of agricultural source material should include measures to be implemented by the farmer and/or custom applicator to ensure application rate, timing and location are appropriate for crop uptake of nitrogen on an annual basis and that reduce potential for surface water run-off and groundwater infiltration. The Nutrient Management Plans and Strategies for the permanent storage of agricultural source material should require facilities to contain a minimum of 240 days for storage and to identify measures to minimize, contain and respond to spills and leaks.
RW-CW-23 *Existing/Future Part IV-RMP.*	To ensure that the existing and/or future application and permanent storage of agricultural source material on farms not phased–in under the *Nutrient Management Act* within vulnerable areas where these activities are or would be a significant drinking water threat do not become or cease to be a significant drinking water threat, these activities shall be designated for the purpose of Section 58 of the *Clean Water Act, 2006* and a Risk Management Plan shall be required in the following areas and for the following activities: a. Existing: i. Application; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. Where a Nitrate Issue has been identified in all Issue Contributing Areas except in Wellhead Protection Area A where the vulnerability is greater than or equal to six (6). ii. Permanent Storage; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8);

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	iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A, where the vulnerability is greater than or equal to six (6). b. Future: i. Application; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A, where the vulnerability is greater than or equal to six (6). ii. Permanent Storage; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A, where the vulnerability is greater than or equal to six (6). For the application of agricultural source material, the Risk Management Plan should include, as a minimum, measures to ensure application rate, timing and location are appropriate for crop uptake of nitrogen on an annual basis and that reduce potential for surface water run-off and groundwater infiltration. For the permanent storage of agricultural source material, the Risk Management Plan should include, as a minimum, measures to reduce the likelihood of spills and leaks and contain and respond to the spills.
RW-CW-24 *Existing/Future* *a)Incentive* *b)Education&Outreach*	To promote best management practices and to provide guidance about the importance of source water protection: a. The Regional Municipality of Waterloo shall develop and implement an incentive program for persons engaging in the activity of the existing application, temporary storage and/or permanent storage of agricultural source material on farms not phased in under the Nutrient Management Act in the following areas: i. In Wellhead Protection Areas A andB where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is greater than or equal to six (6). b. The Regional Municipality of Waterloo shall develop and implement an education and outreach program for persons engaging in the existing and new application and temporary and permanent storage of agricultural source material in the following areas:

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	i. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than or equal to eight (8); ii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is less than six (6).
6. The Application of Non-Agricultural Source Material to Land **7. The Handling and Storage of Non-Agricultural Source Material**	
RW-MC-25 *Existing/Future Prescribed Instrument*	To ensure the existing and/or future application, handling and storage of non-agricultural source material cease to be or do not become a significant drinking water threat where these activities are or would be a significant threat, the Ministry of the Environment, Conservation and Parks and/or Ministry of Agriculture, Food and Rural Affairs shall prohibit these activities within the Environmental Compliance Approvals process and/or Non-Agricultural Source Material Plans to ensure they do not become a significant drinking water threat: a. Existing: i. Application, Handling, Storage; i. In Wellhead Protection Area A; ii. In Intake Protection Zone One (1). b. Future: i. Application, Handling, Storage; i. In Wellhead Protection Area A; ii. In Intake Protection Zone One (1).
RW-MC-26 *Existing/Future Prescribed Instr.*	To ensure the existing and/or future application, handling and storage of non-agricultural source material do not become or cease to be a significant drinking water threat where these activities are or would be a significant threat Ministry of Agriculture, Food and Rural Affairs shall review and, if necessary, amend existing and approve new Non-Agricultural Source Material Plans with the terms and conditions set out below, as appropriate, where required under the *Nutrient Management Act* for the following: a. Existing: i. Application; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A. ii. Handling and Storage; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A. b. Future:

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	i. Application; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A. ii. Handling and Storage; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8); iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A. For the application of non-agricultural source material, the Plan should include measures that reduce potential for surface water run-off and groundwater infiltration of nitrogen.
	To ensure that existing and/or future off-farm application or handling and storage of non-agricultural source material as processed organic waste (i.e. biosolids) do not become or cease to be a significant drinking water threat where these activities are or would be a significant threat, the Ministry of the Environment, Conservation and Parks shall review and, if necessary, amend, existing and approve new Environmental Compliance Approvals with the conditions set out below, as appropriate, for the following: a. Existing: i. Application; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than eight (8); iii. Where a Nitrate Issue has been identified in all Issue Contributing Areas except in Wellhead Protection Area A. ii. Handling and Storage; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than eight (8); iii. Where a Nitrate Issue has been identified in all Issue Contributing Areas except in Wellhead Protection Area A. b. Future: i. Application;

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RW-MC-27 *Existing/Future Prescribed Instr.*	i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than eight (8); iii. Where a Nitrate Issue has been identified in all Issue Contributing Areas except in Wellhead Protection Area A. ii. Handling and storage; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than eight (8); iii. Where a Nitrate Issue has been identified in all Issue Contributing Areas except in Wellhead Protection Area A. For the application of non-agricultural source material, the Approval should include measures to ensure application rate, timing and location are appropriate for uptake of nitrogen on an annual basis and that reduce potential for surface water run-off and groundwater infiltration. For the handling and storage of non-agricultural source material, the Approval should include measures to minimize, contain and respond to spills and leaks.
8. The Application of Commercial Fertilizer to Land **9. The Handling and Storage of Commercial Fertilizer**	
RW-CW-28 *Existing/ Future Part IV-Prohibit*	To ensure the existing and/or future handling and storage of commercial fertilizer cease to be or do not become a significant drinking water threat where these activities are or would be a significant threat, these activities are designated for the purpose of Section 57 of the *Clean Water Act, 2006* and are prohibited within the following vulnerable areas and for the following activities: a. Existing: i. Handling and Storage; i. In Wellhead Protection Area A. b. Future: i. Handling and Storage; i. In Wellhead Protection Area A.
RW-CW-29 *Existing/ Future Part IV-RMP*	To ensure that existing and future application and handling and storage of commercial fertilizer do not become or cease to be a significant drinking water threat where these activities are or would be a significant threat, these activities shall be designated for the purpose of Section 58 of the *Clean Water Act, 2006* and a Risk Management Plan shall be required in the following areas and for the following activities:

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	a. Existing: i. Application; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Intake Protection Zone One (1); iii. In Wellhead Protection Area E where the vulnerability is equal to nine (9);Where a Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is greater than or equal to six (6). ii. Handling and Storage; i. In Wellhead Protection Area B, where the vulnerability is equal to ten (10); ii. Where a Nitrate Issue has been identified, all Issue Contributing Areas except Wellhead Protection Area A where the vulnerability is greater than or equal to six (6). b. Future: i. Application; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Intake Protection Zone One (1); iii. In Wellhead Protection Area E where the vulnerability is equal to nine (9);Where a Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is greater than or equal to six (6). ii. Handling and Storage; i. In Wellhead Protection Area B, where the vulnerability is equal to ten (10); ii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A where the vulnerability is greater than or equal to six (6). For the application of commercial fertilizer, the Risk Management Plan shall include, as a minimum, measures to ensure application rate, timing and location are appropriate for uptake of nitrogen on an annual basis and that reduce potential for surface water run-off and increase groundwater infiltration. For the handling and storage of commercial fertilizer, the Risk Management Plan shall include, as a minimum, measures to reduce the likelihood of spills and leaks and contain and respond to spills.
RW-CW-30 *Existing/Future* *a)Incentive* *b)Education&Outreach*	To promote best management practices and to provide guidance about the importance of source water protection: a. The Regional Municipality of Waterloo shall develop and implement an incentive program for persons engaging in the activity of the existing application and storage of commercial fertilizer in the following areas:

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	i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Intake Protection Zone One (1); iii. In Wellhead Protection Area E where the vulnerability is equal to nine (9);Where a Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is greater than or equal to six (6). b. The Regional Municipality of Waterloo shall develop and implement an education and outreach program for persons engaging in existing and new application and storage of commercial fertilizer in the following areas: i. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is equal to nine (9); ii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is less than six (6).
10. The Application of Pesticide to Land **11. The Handling and Storage of Pesticides**	
RW-CW-31 *Future* *Part IV-Prohibit*	To ensure the new application and handling and storage of pesticide does not become a significant drinking water threat, these activities are designated for the purpose of Section 57 of the *Clean Water Act, 2006* and are prohibited within the following vulnerable areas and for the following activities: a. Future: i. Application, Handling and Storage; i. In a Wellhead Protection Area A; ii. In Intake Protection Zone One (1).
RW-CW-32 *Existing/Future* *Part IV-RMP*	To ensure that existing and/or future application and handling and storage of pesticides do not become or cease to be a significant drinking water threat where these activities are or would be a significant threat, these activities shall be designated for the purpose of Section 58 of the *Clean Water Act, 2006* and a Risk Management Plan shall be required in the following areas and for the following activities: a. Existing: i. Application; i. In Wellhead Protection Area A; ii. In Wellhead Protection Area B where the vulnerability is equal to ten (10); iii. In Intake Protection Zone One (1); iv. In Wellhead Protection Area E where the vulnerability is greater than eight (8). ii. Handling and Storage; i. In Wellhead Protection Area A; ii. In Wellhead Protection Area B where the vulnerability is equal to ten (10); iii. In Intake Protection Zone One (1); iv. In Wellhead Protection Area E where the vulnerability is equal to nine (9).

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	b. Future: i. Application; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Wellhead Protection Area E where the vulnerability is greater than eight (8). ii. Handling and Storage; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10).
RW-CW-33 *Existing/Future* *a)Incentive* *b)Education&Outreach*	To promote best management practices and to provide guidance about the importance of source water protection: a. The Regional Municipality of Waterloo shall develop and implement an incentive program for persons engaging in the activity of the existing application and storage of pesticide in the following areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Intake Protection Zone One (1); In Wellhead Protection Area E where the vulnerability is greater than eight (8). b. The Regional Municipality of Waterloo shall develop and implement an education and outreach program for persons engaging in existing and new application and storage of pesticide in the following areas: i. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than eight (8);
12. The Application of Road Salt **13. The Handling and Storage of Road Salt**	
RW-CW-34 *Future* *Part IV-Prohibit*	To ensure the new application of road salt does not become a significant drinking water threat where this activity would be a significant threat, this activity is designated for the purpose of Section 57 of the *Clean Water Act, 2006* and is prohibited within the following vulnerable areas and for the following activities: a. Future: i. Application of salt on roadways related to the development of new roads that would occur as the result of the approval of a *Planning Act* or *Condominium Act* application; i. In Wellhead Protection Area A; ii. In Intake Protection Zone One (1). ii. Application of salt on new parking lots that would occur as the result of the approval of a *Planning Act*, *Condominium Act* or Ontario Building Code application; i. In Wellhead Protection Area A, for large parking lots; ii. In Intake Protection Zone One (1), for medium and large parking lots.

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RW-CW-34.1 *Existing/Future Part IV-Prohibit*	To ensure the existing and future handling and storage of road salt ceases to be or does not become a significant drinking water threat where this activity is or would be a significant threat, this activity is designated in accordance with Section 57 of the *Clean Water Act, 2006* and is prohibited within the following vulnerable areas and for the following activities: a. Existing: i. In Wellhead Protection Area A where the vulnerability is equal to ten (10), for any uncovered storage of any amount and covered for amounts greater than or equal to one (1) tonne of salt or greater than or equal to one thousand (1000) liters of brine ; ii. In Intake Protection Zone One (1), for any uncovered storage of any amount and covered for amounts greater than or equal to one (1) tonne of salt or greater than or equal to one thousand (1000) liters of brine; iii. Where a Chloride and/or Sodium Issue has been identified, in all Wellhead Protection Areas, for any uncovered storage of any amount. b. Future: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10), for any uncovered storage of any amount and covered for amounts greater than or equal to one (1) tonne of salt or greater than or equal to one thousand (1000) liters of brine; ii. In Intake Protection Zone One (1) for any uncovered storage of any amount and covered for amounts greater than or equal to one (1) tonne of salt or greater than or equal to one thousand (1000) liters of brine; iii. Where a Chloride and/or Sodium Issue has been identified, in all Wellhead Protection Areas, for any uncovered storage of any amount.
RW-CW-35 *Existing/ Future Part IV-RMP*	To ensure the existing and/or future application of road salt does not become or ceases to be a significant drinking water threat where this activity is or would be a significant threat, this activity shall be designated for the purpose of Section 58 of the *Clean Water Act, 2006* and a Risk Management Plan shall be required within the following areas and for the following activities: a. Existing: i. Application of Salt on Roadways; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. Where a Chloride and/or Sodium Issue has been identified, in all Wellhead Protection Areas ii. Application on Parking Lots; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10), for medium or large parking lots; ii. In Intake Protection Zone One (1), for medium and large parking lots; iii. Where a Chloride and/or Sodium Issue has been identified, in all Wellhead Protection Areas, for medium and large parking lots. iv. . b. Future:

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	i. Application of Salt on Roadways that would occur as the result of the approval of a *Planning Act, Condominium Act,* or Ontario Building Code application or upon completion of an Environmental Assessment in accordance with the Environmental Assessment Act; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. Where a Chloride and/or Sodium Issue has been identified, in all Wellhead Protection Areas except for Wellhead Protection Area A. . ii. Application on Parking Lots that would occur as the result of the approval of a *Planning Act, Condominium Act* or Ontario Building Code application; i. In Wellhead Protection Area A, for medium parking lots; ii. In Wellhead Protection Area B where the vulnerability is equal to ten (10), for medium or large parking lots; iii. Where a Chloride and/or Sodium Issue has been identified, in all Wellhead Protection Areas except for Wellhead Protection Area A, for medium and large parking lots. The Risk Management Plan for application of salt on large and medium parking lots shall contain, as a minimum, management practices that achieve a performance standard equivalent to that of an accredited site under the Smart About Salt program to reduce the impact of de-icing activities and for new parking lots include design considerations for driving areas and sidewalks to reduce impacts to drinking water sources. The Risk Management Plan for application of salt on roadways shall include, as a minimum, measures to ensure application rate, timing and location reduce the potential for surface water runoff and groundwater infiltration and meet the objectives of Environment Canada's Code of Practice for Environmental Management of Road Salts including identification of areas where significant threats can occur as Vulnerable Areas and management practices in these areas.
RW-CW-35.1 *Existing/ Future Part IV-RMP*	To ensure that the storage of road salt does not become or ceases to be a significant drinking water threat where this activity is or would be a significant threat, this activity shall be designated for the purpose of Section 58 of the *Clean Water Act, 2006* and a Risk Management Plan shall be required within the following areas and for the following activities: a. Existing: i. Storage; i. In Wellhead Protection Area A where the vulnerability is equal to ten (10) for covered storage in amounts less than one (1) tonne of salt or less than one thousand (1000) L of brine; ii. In Wellhead Protection Areas B where the vulnerability is equal to ten (10), for any uncovered storage of any amount and covered for amounts greater than or equal to one (1) tonne of salt or greater than or equal to one thousand (1000) liters of brine; iii. Where a Chloride and/or Sodium Issue has been identified, in all Wellhead Protection Areas except Wellhead Protection Area A, for covered storage in amounts greater than or equal to one (1) tonne of salt or greater than one thousand (1000) L of brine;

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	b. Future: i. Storage; i. In Wellhead Protection Area A where the vulnerability is equal to ten (10) for covered storage in amounts less than one (1) tonne of salt or less than one thousand (1000) L of brine; ii. Where a Chloride and/or Sodium Issue has been identified, in all Wellhead Protection Areas except Wellhead Protection Area A, , for covered storage in amounts greater than or equal to one (1) tonne of salt or greater than one thousand (1000) L of brine. The Risk Management Plan for the handling and storage of salt or brine shall contain, as a minimum, management practices that achieve a performance standard equivalent to that of an accredited site under the Smart About Salt program to reduce the impact of de-icing activities and for new parking lots include design considerations for roads and sidewalks to reduce the impact.
RW-MC-36 *Future* *Land Use Planning*	The Regional Municipality of Waterloo and Area Municipalities shall amend their Official Plans to state that *Planning Act* and *Condominium Act* applications proposing new roads as part of a subdivision and condominium applications where salt could be applied may be permitted subject to study in accordance with the Regional Implementation Guideline for Source Water Protection Studies and a Regional Salt Impact Assessment to the satisfaction of the Regional Municipality of Waterloo: i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. Where a Chloride and/or Sodium Issue has been identified, in all Wellhead Protection Areas except Wellhead Protection Area A..
RW-CW-37 *Existing/Future* *a)Incentive* *b)Education&Outreach*	To provide guidance about the importance of source water protection and to promote best management practices: a. The Regional Municipality of Waterloo shall develop and implement an incentive program for persons engaging in the following existing activities in the following areas: i. Application of salt on large or medium-sized parking lots: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Intake Protection Zone One (1); iii. Where a Chloride and/or Sodium issue has been identified, in all Wellhead Protection Areas.; ii. Storage of salt: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. Where a Chloride and/or Sodium issue has been identified, in all Wellhead Protection Areasfor storage in amounts greater than or equal to one (1) tonne of salt or greater than one thousand (1000) liters of brine The incentive program shall encourage the implementation of the best management practices that form the core of the Smart About Salt program to reduce the impact of winter de-icing activities.

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	b. The Regional Municipality of Waterloo shall develop and implement an education and outreach program for persons involved in the existing and new application and handling and storage of salt in the following areas: i. Application of salt on large or medium-sized parking lots: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Intake Protection Zone One (1); iii. Where a Chloride and/or Sodium issue has been identified, in all Wellhead Protection Areas.; ii. Storage of salt: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. Where a Chloride and/or Sodium Issue has been identified, in all Wellhead Protection Areas. iii. Application of salt on small parking lots and on roadways: i. Where a Chloride and/or Sodium issue has been identified, in all Wellhead Protection Areas; ii. In Intake Protection Zone One (1). The education and outreach programs shall encourage the implementation of the best management practices that form the core of the Smart About Salt program to reduce the impact of winter de-icing activities. c. The Area Municipalities, in conjunction with the Regional Municipality of Waterloo, shall develop and implement an education and outreach program for persons involved in the application and storage of salt in the following areas: i. Where a Chloride and/or Sodium Issue has been identified, in all Wellhead Protection Areas. The education and outreach program shall include messages about best salt management practices to protect drinking water in their winter maintenance bylaw promotion.
RW-CW-39 *Existing* *Specify Action*	Where a Chloride and/or Sodium Issue has been identified, the Regional Municipality of Waterloo and Area Municipalities shall review and, if necessary, revise their Salt Management Plans for the application of salt on roadways in all Wellhead Protection Areas. The Salt Management Plan shall include, as a minimum, measures to ensure application rate, timing and location reduce the potential for salt-related surface water run-off and groundwater infiltration and meet the objectives of Environment Canada's Code of Practice for Environmental Management of Road Salts including the salt vulnerable area mapping to include areas where significant threats can occur.
RW-NB-39.1 *Existing* *Specify Action*	Where a Chloride and/or Sodium Issue has been identified, the Ontario Ministry of Transportation should review and, if necessary, revise their Salt Management Plans for the application of salt on roadways in all Wellhead Protection Areas. The Salt Management Plan should include, as a minimum, measures to ensure application rate, timing and location reduce the potential for salt-related surface water run-off and groundwater infiltration and meet the objectives of Environment Canada's Code of Practice for Environmental Management of Road Salts including the salt vulnerable area mapping to include areas where significant threats can occur.

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RW-CW/NB-40 *Existing/Future Specify Action*	The Regional Municipality of Waterloo and Area Municipalities and the Ontario Ministry of Transportation shall enhance road design measures in Environmental Assessments to modify, widen or expand existing roads and/or design/develop new roads to minimize the impact from any application of salt on roadways related to the development of new roads in the following area: i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. Where a Chloride and/or Sodium Issue has been identified, in all Wellhead Protection Areas. The assessment should make recommendation for enhanced measures to protect drinking water sources to be carried through detailed design and construction of the road.
14. The Storage of Snow	
RW-CW-41 *Existing/Future Part IV-Prohibit*	To ensure the existing and/or future storage of snow ceases to be or does not become a significant drinking water threat where this activity is or would be a significant threat, the activity is designated for the purpose of Section 57 of the *Clean Water Act, 2006* and is prohibited within the following vulnerable areas and for the following activities: a. Existing: i. Storage; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Intake Protection Zone One (1); iii. In Intake Protection Zones Two (2) and Three (3) and Wellhead Protection Area E where the vulnerability is equal to nine (9); iv. Where a Chloride, Sodium and/or Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is greater than or equal to six (6), with an area greater than or equal to 0.5 hectares. b. Future: i. Storage; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Intake Protection Zone One (1); iii. In Intake Protection Zones Two (2) and Three (3) and Wellhead Protection Area E where the vulnerability is equal to nine (9); iv. Where a Chloride, Sodium and/or Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is greater than or equal to six (6), with an area greater than or equal to 0.5 hectares.
RW-CW-42 *Existing/Future Part IV-RMP*	To ensure the existing and/or future storage of snow does not become or ceases to be a significant drinking water threat where this activity is or would be a significant threat, this activity shall be designated for the purpose of Section 58 of the *Clean Water Act, 2006* and a Risk Management Plan shall be required in the following areas and for the following activities: a. Existing:

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	i. Storage; i. Where a Chloride, Sodium and/or Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is greater than or equal to six (6), with an area greater than or equal to 0.05 and less than 0.5 hectares. b. Future: i. Storage; i. Where a Chloride, Sodium and/or Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is greater than or equal to six (6), with an area greater than or equal to 0.05 and less than 0.5 hectares. The Risk Management Plan shall include, as a minimum, measures to reduce risk based on an assessment of criteria in the Ministry of the Environment, Conservation and Parks implementation of Guideline B-4 (Snow Disposal and De-icing Operations in Ontario 2011) including measures that minimize the impact of surface and sub-surface drainage in selection of suitable sites for disposal.
RW-CW-43 *Existing a)Incentive* *Existing/Future b)Education & Outreach*	To provide guidance about the importance of source water protection and to promote best management practices; a. The Regional Municipality of Waterloo shall develop and implement an incentive program for persons involved in existing storage of snow in the following areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. Where a Chloride, Sodium and/or Nitrate Issue has been identified, in all Issue Contributing Areas. b. The Regional Municipality of Waterloo shall develop and implement an education and outreach program for persons involved in existing and future storage of snow in the following areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. Where a Chloride, Sodium and/or Nitrate Issue has been identified, in all Issue Contributing Areas. The education and outreach program should encourage the use of beneficial management practices that ensure that the activity does not become or ceases to be a threat to drinking water.
RW-NB-44 *Future Specify Action*	The Ontario Ministry of the Environment, Conservation and Parks should consider an approval process for storage of snow in Wellhead Protection Areas where this activity can be a significant drinking water threat following Guideline B-4 (Snow Disposal and De-icing Operations in Ontario, 2011) including measures that minimize the impact of surface and sub-surface drainage for any new storage of snow.
15. The Handling and Storage of Fuel	
RW-CW-45	To ensure the existing and/or new handling and storage of a fuel ceases to be or does not become a significant drinking water threat where this activity is or would

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Existing/Future Part IV-Prohibit	be a significant threat, this activity is designated for the purpose of Section 57 of the *Clean Water Act, 2006* and is prohibited within the following vulnerable areas and for the following activities except where used in a single detached dwelling: a. Existing: i. Below Grade Handling and Storage; i. In Wellhead Protection Area A, for liquid fuel excluding fuel storage associated with a municipal water supply emergency generator facility. b. Future: i. Below Grade Handling and Storage; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10), for liquid fuel and fuel oil; ii. In Intake Protection Zone One (1) for liquid fuel and fuel oil. ii. Above Grade Handling and Storage; i. In Wellhead Protection Area A, for liquid fuel excluding fuel storage associated with a municipal water supply emergency generator facility; ii. In Wellhead Protection Area A, for fuel oil; iii. In Intake Protection Zone One (1), for liquid fuel and fuel oil.
RW-CW-46 *Existing/ Future Part IV-RMP*	To ensure the existing and/or future handling and storage of fuel does not become or ceases to be a significant drinking water threat where this activity is or would be a significant threat, this activity shall be designated for the purpose of Section 58 of the *Clean Water Act, 2006* and a Risk Management Plan shall be required in the following areas and for the following activities: a. Existing: i. Below Grade Handling and Storage; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10), for liquid fuel; ii. In Wellhead Protection Area A, for liquid fuel storage associated with a municipal water supply emergency generator facility; iii. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10), for fuel oil; iv. In Intake Protection Zone One (1), for liquid fuel and fuel oil; v. Intake Protection Zones Two (2) and Three (3) where the vulnerability is equal to nine (9), for liquid fuel and fuel oil; vi. In Wellhead Protection Area E where the vulnerability is equal to nine (9), for liquid fuel and fuel oil. ii. Above Grade Handling and Storage; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10), for liquid fuel; ii. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10), for fuel oil tanks; iii. Intake Protection Zones Two (2) and Three (3) where the vulnerability is equal to nine (9), for liquid fuel and fuel oil;

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	iv. In Wellhead Protection Area E where the vulnerability is equal to nine (9), for liquid fuel and fuel oil. b. Future: i. Above Grade Handling and Storage; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10), for liquid fuel except at bulk liquid fuel facilities, gas stations and transportation terminals; ii. In Wellhead Protection Area A, for liquid fuel associated with a municipal water supply emergency generator facility; iii. In Wellhead Protection Area B where the vulnerability is equal to (10), for fuel oil tanks; iv. Intake Protection Zones Two (2) and Three (3) where the vulnerability is equal to nine (9), for liquid fuel and fuel oil; v. In Wellhead Protection Area E where the vulnerability is equal to nine (9), for liquid fuel and fuel oil. The Risk Management Plan shall include, as a minimum, measures to reduce the likelihood of spills and leaks and contain and respond to spills.
RW-MC-47 *Future Land Use Planning*	Where future storage of fuel would be a significant drinking water threat within a vulnerable area, the Regional Municipality of Waterloo and Area Municipalities shall review and, if necessary, amend their Official Plans and Zoning By-laws to prohibit new bulk liquid fuel facilities, gas stations and transportation terminals excluding fuel storage associated with a municipal emergency generator facility in Wellhead Protection Areas A and B where the vulnerability is equal to ten (10).
RW-CW-48 *Existing/Future a)Incentive b) and c)Education&Outreach*	To provide guidance about the importance of source water protection and to promote best management practices: a. The Regional Municipality of Waterloo shall develop and implement an incentive program for persons engaging in the activity of the existing handling and storage of fuel oil and liquid fuel except at bulk liquid fuel facilities, gas stations, transportation terminals and aggregate operations in Wellhead Protection Areas A and B where the vulnerability is equal to ten (10), Intake Protection Zone One (1), Intake Protection Zones Two (2) and Three (3) where the vulnerability is equal to nine (9), and Wellhead Protection Area E where the vulnerability is equal to nine (9). The incentive program shall facilitate the use of beneficial management practices that reduce the impact on groundwater. b. The Regional Municipality of Waterloo shall develop and implement an education and outreach program for persons engaged in the existing and new storage of fuel oil in Wellhead Protection Areas A and B where the vulnerability is equal to ten (10). The education program shall provide homeowners with information relating to potential impacts of spills to drinking water sources and to fuel suppliers regarding their obligations for inspections. c. The Regional Municipality of Waterloo shall develop and implement an education and outreach program for persons engaged in the existing and new handling and storage of liquid fuel where it is a secondary land use in Wellhead Protection Area B where the vulnerability is equal to ten (10), Intake Protection Zone One (1), Intake Protection Zones Two (2) and Three (3) where the vulnerability is equal to nine (9), and Wellhead Protection Area E where the vulnerability is equal to nine (9). The education program shall encourage

Policy Number	Policies Addressing Prescribed Drinking Water Threats within the Regional Municipality of Waterloo
	property owners to implement beneficial management practices for protection of groundwater.
RW-MC-49 *Existing/ Future Prescribed Instr.*	Where existing and/or new handling and storage of fuel is or would be a significant drinking water threat within a vulnerable area for activities regulated under the *Aggregate Resources Act* within vulnerable areas, the Ministry of Natural Resources and Forestry, should ensure that licenses, permits and site plans issued under the *Aggregate Resources Act* and related regulations, standards and policies include terms and conditions, as appropriate, to ensure the activity does not become or ceases to be a significant drinking water threat.
16. The Handling and Storage of a Dense Non-Aqueous Phase Liquid (DNAPL)	
RW-CW-50 *Existing/ Future Part IV-Prohibit*	To ensure the existing and/or future handling and storage of a dense non-aqueous phase liquid ceases to be or does not become a significant drinking water threat where this activity is or would be a significant threat, this activity is designated for the purpose of Section 57 of the *Clean Water Act, 2006* and is prohibited within the following vulnerable areas and for the following activities: a. Existing: i. Handling and Storage; i. In Wellhead Protection Area A. b. Future: i. Handling and Storage: i. In Wellhead Protection Area A; ii. In Wellhead Protection Area B where the vulnerability is equal to ten (10); iii. Where a Trichloroethylene Issue has been identified, in all Wellhead Protection Areas where the vulnerability is greater than or equal to eight (8), for trichloroethylene and related degradation products.
RW-CW-51 *Existing/ Future Part IV-RMP*	To ensure that the existing and/or future handling and storage of a dense non-aqueous phase liquid ceases to be or does not become a significant drinking water threat where this activity is or would be a significant threat, this activity shall be designated for the purpose of Section 58 of the *Clean Water Act, 2006* and a Risk Management Plan shall be required in the following areas and for the following activities: a. Existing: i. Handling and Storage; i. In Wellhead Protection Areas B and C where the vulnerability is greater than or equal to eight (8); ii. Where a Trichloroethylene Issue has been identified, in all Wellhead Protection Areas except Wellhead Protection Area A, where the vulnerability is greater than or equal to eight (8), for trichloroethylene and related degradation products. b. Future: i. Handling and Storage;

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	i. In Wellhead Protection Areas B and C where the vulnerability is equal to six (6) or eight (8); ii. Where a Trichloroethylene Issue has been identified, in all Wellhead Protection Areas except Wellhead Protection Area A, where the vulnerability is equal to six (6), for trichloroethylene and related degradation products. The Risk Management Plan shall include, as a minimum, measures to reduce the likelihood of spills and leaks and contain and respond to spills.
RW-CW-52 *Existing Incentive*	To provide guidance about the importance of source water protection and to promote best management practices, the Regional Municipality of Waterloo shall develop and implement an incentive program for persons engaging in the existing handling and storage of a dense non-aqueous phase liquid within the following vulnerable areas: i. In all Wellhead Protection Areas except Wellhead Protection Area A, where the vulnerability is greater than or equal to eight (8); ii. Where a Trichloroethylene Issue has been identified, in all Wellhead Protection Areas except Wellhead Protection Area A, where the vulnerability is greater than or is equal to eight (8), for trichloroethylene and related degradation products. The incentive program shall facilitate, as a minimum, measures to reduce the likelihood of spills and leaks and contain and respond to spills.
RW-CW-53 *Existing/ Future Education&Outreach*	To provide guidance about the importance of source water protection and to promote best management practices the Regional Municipality of Waterloo shall develop and implement an education and outreach program for persons engaged in the existing and future handling and storage of dense non-aqueous phase liquids in the following areas: i. In all Wellhead Protection Areas where the vulnerability is less than eight (8). The education and outreach program shall provide property owners with information relating to potential impacts of spills to drinking water and encourage implementation of beneficial management practices for protection of groundwater from dense non-aqueous phase liquid storage and handling.
17. The Handling and Storage of an Organic Solvent	
RW-CW-54 *Existing/ Future Part IV-Prohibit*	To ensure the existing and/or future handling and storage of an organic solvent ceases to be or does not become a significant drinking water threat where this activity is or would be a significant threat, this activity is designated for the purpose of Section 57 of the *Clean Water Act, 2006* and is prohibited within the following vulnerable areas and for the following activities: a. Existing: i. Handling and Storage; i. In Wellhead Protection Area A, below grade. b. Future: i. Handling and Storage;

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	i. In Wellhead Protection Area A, above and below grade; ii. In Wellhead Protection Area B where the vulnerability is equal to ten (10), below grade.
RW-CW-55 *Existing/ Future Part IV-RMP*	To ensure the existing and/or future handling and storage of an organic solvent does not become or ceases to be a significant drinking water threat where this activity is or would be a significant threat, this activity shall be designated for the purpose of Section 58 of the *Clean Water Act, 2006* and a Risk Management Plan shall be required in the following areas and for the following activities: a. Existing: i. Handling and Storage; i. In Wellhead Protection Area A, above grade; ii. In Wellhead Protection Area B where the vulnerability is equal to ten (10), above and below grade. b. Future: i. Handling and Storage; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10), above grade. The Risk Management Plan shall include, as a minimum, measures to reduce the likelihood of spills and leaks and contain and respond to spills.
RW-CW-55.1 *Existing Incentive*	To provide guidance about the importance of source water protection and to promote best management practices, the Regional Municipality of Waterloo shall develop and implement an incentive program for persons engaging in existing handling and storage of organic solvent within the following vulnerable areas: i. In Wellhead Protection Area A, above grade; ii. In Wellhead Protection Area B where the vulnerability is equal to ten (10), above and below grade.
18. The Management of Run-off that Contains Chemicals Used in De-icing of Aircraft	
RW-CW-56 *Existing/Future a)Part IV-Prohibit b)Part IV- RMP*	To ensure that the expansion of existing or new airport facilities that lead to the generation of run-off containing de-icing chemicals does not become a significant drinking water threat within a vulnerable area where this activity would be a significant drinking water threat: a. Any new management of run-off that contains chemicals used in the de-icing of aircraft is designated for the purpose of Section 57 of the *Clean Water Act, 2006* and is prohibited in the following areas: i. In Wellhead Protection Areas A and B where the vulnerability equals ten (10); ii. In Intake Protection Zone One (1); iii. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is equal to nine (9); iv. In Wellhead Protection Area E where the vulnerability is equal to nine (9). b. This activity shall be designated for the purpose of Section 58 of the *Clean Water Act, 2006* and a Risk Management Plan shall be required with existing

Policy Number	Policies Addressing Prescribed Drinking Water Threats within the Regional Municipality of Waterloo
	management of run-off structures that contains chemicals used in the de-icing of aircraft where this activity could be a significant drinking water threat within the following areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Intake Protection Zone One (1); iii. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is equal to nine (9); iv. In Wellhead Protection Area E where the vulnerability is equal to nine (9).
21. The Use of Land as Livestock Grazing or Pasturing Land, an Outdoor Confinement Area or Farm Animal Yard	
RW-CW-57 *Existing/ Future Part IV-Prohibit*	To ensure the existing and/or future use of land as livestock grazing or pasturing land, an outdoor confinement area or farm-animal yard ceases to be or does not become a significant drinking water threat where this activity is or would be a significant threat, this activity is designated for the purpose of Section 57 of the *Clean Water Act, 2006* and is prohibited within the following vulnerable areas and for the following activities: a. Existing: i. Outdoor Confinement Area or Farm-Animal Yard; i. In Wellhead Protection Area A. b. Future: i. Outdoor Confinement Area or Farm-Animal Yard; i. In Wellhead Protection Area A; ii. Where a Nitrate Issue has been identified, in Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); iii. In Intake Protection Zone One (1). ii. Livestock Grazing or Pasturing Land; i. Where a Nitrate Issue has been identified, in Wellhead Protection Area A; ii. In Intake Protection Zone One (1).
RW-CW-58 *Existing/ Future Part IV-RMP*	To ensure the existing and/or future use of land as livestock grazing or pasturing land, an outdoor confinement area or farm-animal yard ceases to be or does not become a significant drinking water threat where this activity is or would be a significant threat, this activity is designated for the purpose of Section 58 of the *Clean Water Act, 2006* and a Risk Management Plan shall be required in the following areas and for the following activities: a. Existing: i. Outdoor Confinement Area or Farm-Animal Yard; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. In Intake Protection Zone One (1);

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	iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A, where the vulnerability is greater than or equal to six (6). ii. Livestock Grazing or Pasturing Land; i. In Wellhead Protection Area A; ii. In Intake Protection Zone One (1); iii. Where a Nitrate Issue has been identified, in Wellhead Protection Areas B and C where the vulnerability is greater than or equal to eight (8). b. Future: i. Outdoor Confinement Area or Farm-Animal Yard; i. In Wellhead Protection Area B where the vulnerability is equal to ten (10); ii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is equal to six (6) or eight (8); iii. Where a Nitrate Issue has been identified, in Wellhead Protection Area E where the vulnerability is greater than six (6). ii. Livestock Grazing or Pasturing Land; i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A, where the vulnerability is greater than or equal to eight (8). The Risk Management Plan shall include, as a minimum, measures to manage the generation of manure, livestock activities, and reduce the potential for surface water run-off and groundwater infiltration.
RW-CW-59 *Existing Incentive*	To provide guidance about the importance of source water protection and to promote best management practices, the Regional Municipality of Waterloo shall develop and implement an incentive program for persons engaging in the existing use of land as an outdoor confinement area or a farm-animal yard and the existing use of land as livestock grazing or pasturing land in the following areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10); ii. In Intake Protection Zone One (1); iii. Where a Nitrate Issue has been identified, in all Issue Contributing Areas where the vulnerability is greater than or equal to six (6).
RW-CW-60 *Existing/Future Education&Outreach*	The Regional Municipality of Waterloo shall develop and implement an education and outreach program for persons engaged in the existing and future use of land as livestock grazing or pasturing land, outdoor confinement area or a farm animal yard in the following areas: i. In Wellhead Protection Areas A and B where the vulnerability is equal to ten (10), for new use of land as livestock grazing or pasturing land; ii. In Intake Protection Zones Two (2) and Three (3) where the vulnerability is greater than or equal to eight (8); iii. In Wellhead Protection Area E where the vulnerability is greater than or equal to eight (8);

Policy Number	Policies Addressing Prescribed Drinking Water Threats within the Regional Municipality of Waterloo
	iv. Where a Nitrate Issue has been identified, in all Issue Contributing Areas except Wellhead Protection Area A..
22. The Establishment and Operation of a Liquid Hydrocarbon Pipeline	
RW-NB-61 *Future* *Specify Action* *WHPA-A-10;* *WHPA-B-10;* *IPZ-1-9* *Monitoring*	To ensure this activity never becomes a significant drinking water threat, the establishment and operation of a hydrocarbon pipeline within the meaning of O.Reg 210/01 under the *Technical Standards and Safety Authority Act* or that is subject to the *Canadian Energy Regulator Act*, where this activity would be a significant drinking water threat, the pipeline proponent, the Canada Energy Regulator and Ontario Energy Board are encouraged to provide the Source Protection Authority and the Region of Waterloo the location of any new proposed pipeline within the Region of Waterloo and/or Source Protection Area and are encouraged to ensure that the applicant has complied with or included appropriate design standards, monitoring and maintenance practices, where applicable, to reduce the risk to drinking water sources. The Source Protection Authority shall document in the annual report the number of new pipelines proposed within vulnerable areas if a pipeline has been proposed and/or an application has been received.
19. An Activity That Takes Water From an Aquifer or a Surface Water Body Without Returning the Water Taken to the Same Aquifer or Surface Water Body **20. An Activity that Reduces the Recharge of an Aquifer**	
RW-CW-62 *Existing/Future* *Education&Outreach* *WHPA-Q*	To ensure that any consumptive water taking and any activity that reduces the recharge of an aquifer cease to be or never become significant drinking water threats, where these activities are or would be significant drinking water threats as prescribed by the *Clean Water Act, 2006,* the Regional Municipality of Waterloo shall support any water efficiency education and outreach programs developed by The Township of Centre Wellington ~~and/or Guelph~~ to promote water conservation and demand management and use of best management practices that reduce the impact on groundwater recharge for private water users within the Region of Waterloo.
~~RW-NB-63~~ ~~*Future*~~ ~~*Specify Action*~~ ~~*WHPA-Q*~~	~~To ensure that any consumptive water taking and any activity that reduces the recharge of an aquifer never become significant drinking water threats, where these activities would be significant drinking water threats as prescribed by the *Clean Water Act, 2006,* he Ministry of the Environment, Conservation and Parks should consider prioritizing municipal water use as a component of future water quantity management.~~
RW-CW-634 *Existing/Future* *Specify Action* *WHPA-Q*	To ensure that any consumptive water taking and any activity that reduces the recharge of an aquifer cease to be or never become significant drinking water threats, where these activities are or would be significant drinking water threats as prescribed by the *Clean Water Act, 2006,* the Regional Municipality of Waterloo will collaborate with the County of Wellington, Grand River Conservation Authority, and Ministry of the Environment, Conservation and Parks, to support management of local water resources and protection of municipal drinking water supply sources, including but not limited to establishing a drought response program, consideration of climate change impacts and mitigation, encourage monitoring, data sharing and coordination among the agencies, and support the use, maintenance, and update of the Tier 3 Water Budget model.

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RW-CW-645 *Future* *Specify Action* *WHPA-Q*	To ensure that any consumptive water taking and any activity that reduces the recharge of an aquifer never become significant drinking water threats, where these activities would be significant drinking water threats as prescribed by the *Clean Water Act, 2006,* any municipality or conservation authority ~~agency~~ developing or approving a sub-watershed study terms of reference and monitoring program shall review, and where appropriate, incorporate the ~~Centre Wellington T~~ier 3 W~~w~~ater B~~b~~udget results as part of the sub-watershed study.
19. An activity That Takes Water From an Aquifer or a Surface Water Body Without Returning the Water Taken to the Same Aquifer or Surface Water Body	
RW-MC-656 *Existing/Future* *Prescribed Instr.* *WHPA-Q*	To ensure that any consumptive water taking ceases to be or never becomes a significant drinking water threat where this activity is or would be a significant drinking water threat as prescribed by the *Clean Water Act, 2006,* the following shall apply: a. The Ministry of the Environment, Conservation and Parks shall review and, if necessary, amend Permits To Take Water (PTTW) and / or Drinking Water Works Permits to ensure that the municipal supply will not be adversely impacted, and to consider the Tier 3 W~~w~~ater B~~b~~udget results including consideration of water supply requirements for planned growth and prolonged drought. b. The Ministry of the Environment, Conservation and Parks shall issue Permits To Take Water (PTTW) and / or Drinking Water Works Permits to ensure that the municipal supply will not be adversely impacted. The Ministry of the Environment, Conservation and Parks, where appropriate, should ensure the use of the Tier 3 Water Budget model, reports and data in its evaluation of these takings including consideration of water supply requirements for planned growth and prolonged drought. The Ministry of the Environment, Conservation and Parks shall~~should~~ consider the following Permit to Take Water terms and conditions that address: i. groundwater and surface water monitoring; ii. demand management: water needs assessment (review of permitted maximum takings) and water efficiency measures; iii. information sharing with the Ministry of the Environment, Conservation and Parks, municipalities and conservation authorities including a condition of approval for permit holders to provide municipalities and conservation authorities technical reports and monitoring data gathered pursuant to a condition of the PTTW (as per first bullet); and iv. drought management planning for drought sensitive wells / systems.
RW-MC-667 *~~Existing/~~Future* *Prescribed Instr.* *WHPA-Q*	To ensure that any consumptive water taking ~~ceases to be or~~ never becomes a significant drinking water threat where this activity ~~is or~~ would be a significant drinking water threat as prescribed by the *Clean Water Act, 2006,* the Ministry of Natural Resources and Forestry in consultation with the Ministry of the Environment, Conservation and Parks, Wellington County municipalities ~~Region of Waterloo~~ and Grand River Conservation Authority, shall include appropriate terms and conditions in ~~review and amend where appropriate~~ any ~~existing and~~ new approvals under the Aggregate Resources Act, 1990 for extraction below the water table to ensure the sustainability of the municipal water sources identified in the Tier 3 Water Budget model.

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~~RW-NB-69~~ ~~*Existing/Future Specify Action WHPA-Q*~~	~~To ensure that any consumptive water taking ceases to be or never becomes a significant drinking water threat where this activity is or would be a significant drinking water threat as prescribed by the *Clean Water Act, 2006,* the Ministry of Natural Resources and Forestry should consider integrating source protection water quantity technical work into the aggregate policy framework and provincial standards.~~ ~~The Ministry Natural Resources and Forestry should also consider enhanced engagement with other water managers (e.g., municipalities, conservation authorities, and the Ministry of the Environment, Conservation and Parks) in the *Aggregate Resources Act, 1990* licensing.~~
RW-NB-67~~70~~ *Existing/Future Specify Action WHPA-Q*	To ensure that any consumptive water taking ceases to be or never becomes a significant drinking water threat where this activity is or would be a significant drinking water threat as prescribed by the C*lean Water Act, 2006,* the Ministry of the Environment, Conservation and Parks and / or the Ministry of Natural Resources and Forestry should ~~consider adding a~~ ensure source protection is included as a risk factor of S~~s~~ites with Permits to Take Water (PTTW) and / or *Aggregate Resources Act, 1990* Licenses ~~with~~in WHPA-Q A~~a~~reas in the Guelph District Office risk-based compliance inspection planning process.
RW-MC-68~~71~~ *Future Land Use Planning WHPA-Q*	To ensure that any consumptive water taking never becomes a significant drinking water threat where this activity would be a significant drinking water threat as prescribed by the C*lean Water Act, 2006,* the Regional Municipality of Waterloo and local municipalities shall review and amend as required their Official Plan policies and / or study requirements, ~~study requirements, and / or complete applications processes associated with development applications~~ to ensure any consumptive water taking associated with a development ~~these~~ application~~s~~ does not impact the sustainability of the Centre Wellington municipal water supplies and ensure any study associated with a development application is required to be submitted as part of a complete application.

10.3 Appendix A: List of Policies As Per Section 34 Of Regulation 287/07

LIST A
Title: Significant threat policies that affect decisions under the *Planning Act* and *Condominium Act*, 1998

Opening Statement: "Clause 39 (1)(a), subsections 39 (2), (4) and (6), and sections 40 and 42 of the Clean Water Act, 2006 apply to the following policies:"

Content: RW-MC-1.2, RW-CW-1.3, RW-MC-1.4, RW-MC-1.13, RW-MC-1.18, RW-MC-6, RW-MC-7, RW-MC-17, RW-MC-18. RW-MC-36, RW-MC-47, RW-MC-6871

LIST B
Title: Moderate and low threat policies that affect decisions under the Planning Act and Condominium Act, 1998

Opening Statement: "Subsection 39 (1) (b) of the Clean Water Act, 2006 applies to the following policies:"

Content: No Applicable Policies

LIST C
Title: Significant threat policies that affect Prescribed Instrument decisions

Opening Statement: "Subsection 39 (6), clause 39 (7) (a), section 43 and subsection 44 (1) of the Clean Water Act, 2006 apply to the following policies:"

Content: RW-MC-1.2, RW-MC-1.13, RW-MC-1.16, RW-MC-1.27, RW-MC-2, RW-MC-9, RW-MC-10, RW-MC-11, RW-MC-11.1, RW-MC-12, RW-MC-13, RW-MC-15, RW-MC-16, RW-MC-21.1, RW-MC-22, RW-MC-25, RW-MC-26, RW-MC-49, RW-MC-656, RW-MC-667

LIST D
Title: Moderate and low threat policies that affect Prescribed Instrument decisions

Opening Statement: "Clause 39 (7) (b) of the Clean Water Act, 2006 applies to the following policies:"

Content: No Applicable Policies

LIST E
Title: Significant threat policies that impose obligations on municipalities, source protection authorities and local boards

Opening Statement: "Section 38 and subsection 39 (6) of the Clean Water Act, 2006 applies to the following policies:"

Content: RW-CW-1.1.1, RW-CW-1.1.2, RW-CW-1.5, RW-CW-1.6, RW-MC-1.13, RW-CW-1.14, RW-CW-1.19, RW-CW-1.20, RW-CW-5, RW-CW-8, RW-CW-8.1, RW-CW-12.1, RW-CW-14, RW-CW-19, RW-CW-19.1, RW-CW-20.1, RW-CW-24, RW-CW-27.1, RW-CW-30, RW-CW-33, RW-CW-37, , RW-CW-39, RW-CW/NB-40, RW-CW-43, RW-CW-48, RW-CW-52, RW-CW-53, RW-CW-55.1, RW-CW-59, RW-CW-60, RW-CW-62, RW-CW-634, RW-CW-645, RW-MC-6871

LIST F
Title: Monitoring policies referred to in subsection 22 (2) of the Clean Water Act, 2006

Opening Statement: "Section 45 of the Clean Water Act, 2006 applies to the following policies:"

Content: RW-CW-1.8, RW-CW-1.9, RW-CW-1.10, RW-CW-1.12, RW-NB-1.15, RW-MC-1.16

LIST G
Title: Policies related to section 57 of the Clean Water Act, 2006

Opening Statement: "The following policies relate to section 57 (prohibition) of the Clean Water Act."

Content: RW-CW-1.1.1, RW-CW-1.1.2, RW-MC-1.13, RW-CW-3, RW-CW-20a, RW-CW-21, RW-CW-25, RW-CW-25.1, RW-CW-28, RW-CW-31, RW-CW-34, RW-CW-34.1, RW-CW-41, RW-CW-45, RW-CW-50, RW-CW-54, RW-CW-56, RW-CW-57

LIST H
Title: Policies related to section 58 of the Clean Water Act, 2006

Opening Statement: "The following policies relate to section 58 (Risk Management Plans) of the Clean Water Act."

Content: RW-CW-1.1.1, RW-CW-1.1.2, RW-CW-4, RW-CW-20b, RW-CW-23, RW-CW-26.1, RW-CW-29, RWCW-32, RW-CW-35, RW-CW-35.1, RW-CW-42, RW-CW-46, RW-CW-51, RW-CW-55, RW-CW-56, RW-CW-58

LIST I
Title: Policies related to section 59 of the Clean Water Act, 2006

Opening Statement: "The following policies relate to section 59 (restricted land uses) of the Clean Water Act."

Content: RW-CW-1.1.1, RW-CW-1.1.2, RW-CW-1.3

LIST J
Title: Specify Action policies

Opening Statement: For the purposes of section 33 of Ontario Regulation 287/07, the following policies are identified as Specify Action policies:

Content: RW-NB-1.22, RW-NB-1.23, RW-NB-1.24, RW-NB-1.25; RW-NB-1.26, RW-NB-39.1

List K
Title: Significant threat policies targeted to bodies other than municipalities, local boards or source protection authorities for implementation

Opening Statement: The following policies are identified as non-legally binding policies:

Content: RW-NB-1.7,~~,~~ RW-NB-1.17, RW-NB-1.21, RW-CW-19, RW-CW/NB-39, RW-NB-39.1, RW-CW/NB-40, RW-NB-44, RW-NB-61~~, RW-NB-63, RW-NB-68~~, ~~RW-NB-69~~, RW-NB-67~~70~~

10.4 Appendix B: Prescribed Instruments and Policy Summary Tables

Table 1: Prescribed Instruments Which Apply To Source Protection Plan Policies In Lists C And D Above (S.34 (4) Of O. Reg. 287/07)

Policy #	Legal Effect (conform with, have regard to)	Environmental Protection Act	Nutrient Management Act	Ontario Water Resources Act	Pesticide Act	Aggregate Resources Act	Safe Drinking Water Act
RW-MC-1.2	Must Conform	X	X	X		X	
RW-MC-1.16	Must Conform	X					
RW-MC-1.13	Must Conform	X	X	X		X	
RW-MC-1.27	Must Conform		X				
RW-MC-2	Must Conform	X					
RW-MC-9	Must Conform	X		X			
RW-MC-10	Must Conform	X		X			
RW-MC- 11	Must Conform	X		X			
RW-MC-11.1	Must Conform	X		X			
RW-MC-12	Must Conform	X		X			
RW-MC-13	Must Conform	X		X			
RW-MC-15	Must Conform	X		X			
RW-MC-16	Must Conform	X		X			
RW-MC-21.1	Must Conform	X	X				
RW-MC-22	Must Conform		X				
RW-MC-26	Must Conform		X				
RW-MC-49	Must Conform					X	
RW-MC-656	Must Conform			X			X
RW-MC-667	Must Conform			~~X~~		X	~~X~~

Table 2: Policy Summary Matrix

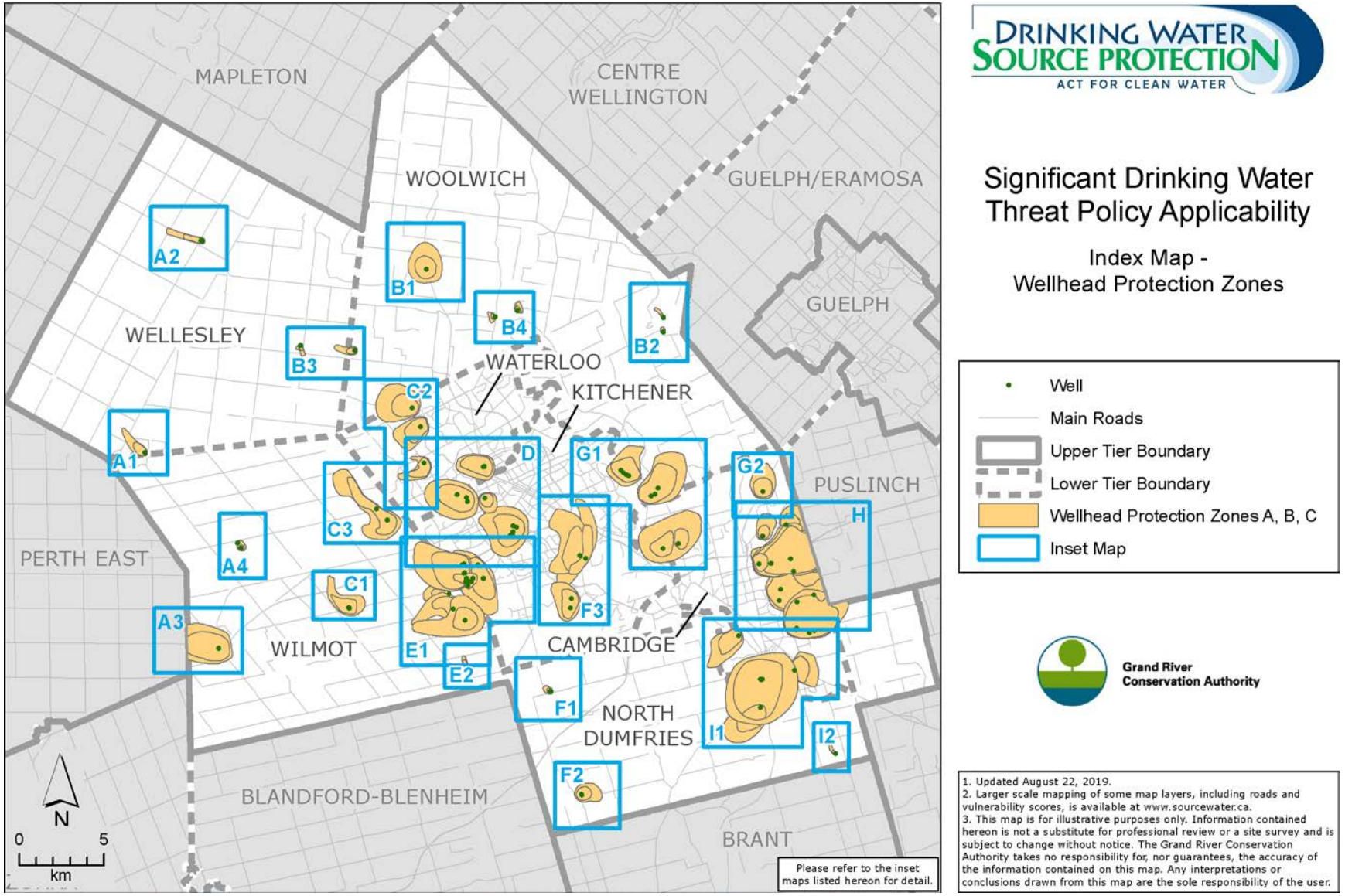
Policy ID#	Legal Effect (conform with, have regard to, non-binding)	Policy affects decisions under the Planning Act and Condominium Act, 1998 (Lists A and B)	Policy affects Prescribed Instrument decisions (Lists C and D)	Significant threat policies that impose obligations on municipalities, source protection authorities and local boards (List E)	Monitoring policies referred to in s.22 (2) of the CWA (List F)	Part IV Policies - Significant threat policies that are designated in the plan as requiring a Risk Management Plan, are prohibited under s. 57, or to which s. 59 of the CWA applies (Lists G, H, and I)	Specify Action Policies (List J)	Significant threat policies targeted to bodies other than municipalities, local boards or source protection authorities for implementation List K)
RW-CW-1.1.1	Comply With			X		X		
RW-CW-1.1.2	Comply With			X		X		
RW-MC-1.2	Must Conform	X	X					
RW-CW-1.3	Comply With	X				X		
RW-MC-1.4	Must Conform	X						
RW-CW-1.5	Comply With			X				
RW-CW-1.6	Comply With			X				
RW-NB-1.7	Non-Binding							X

Policy ID#	Legal Effect (conform with, have regard to, non-binding)	Policy affects decisions under the Planning Act and Condominium Act, 1998 (Lists A and B)	Policy affects Prescribed Instrument decisions (Lists C and D)	Significant threat policies that impose obligations on municipalities, source protection authorities and local boards (List E)	Monitoring policies referred to in s.22 (2) of the CWA (List F)	Part IV Policies - Significant threat policies that are designated in the plan as requiring a Risk Management Plan, are prohibited under s. 57, or to which s. 59 of the CWA applies (Lists G, H, and I)	Specify Action Policies (List J)	Significant threat policies targeted to bodies other than municipalities, local boards or source protection authorities for implementation List K)
RW-CW-1.8	Comply With				X			
RW-CW-1.9	Comply With				X			
RW-CW-1.10	Comply With				X			
RW-CW-1.12	Comply With				X			
RW-MC-1.13	Must Conform	X	X	X		X		
RW-CW -1.14	Comply With			X				
RW-MC-1.16	Must Conform		X		X			
RW-NB-1.17	Non-Binding							X
RW-MC-1.18	Comply With	X						
RW-CW-1.20	Comply With			X				
RW-NB-1.21	Non-binding							X
RW-NB-1.22	Non-binding						X	
RW-NB-1.23	Non-binding						X	
RW-NB-1.24	Non-binding						X	
RW-NB-1.25	Non-binding						X	
RW-NB-1.26	Non-binding						X	
RW-MC-1.27	Must Conform		X					
RW-MC-2	Must Conform		X					
RW-CW-3	Comply With					X		
RW-CW-4	Comply With					X		
RW-CW-5	Comply With			X				
RW-MC-6	Must Conform	X						
RW-MC-7	Must Conform	X						
RW-CW-8	Comply With			X				
RW-CW-8.1	Comply With			X				
RW-MC-9	Must Conform		X					
RW-MC-10	Must Conform		X					
RW-MC-11	Must Conform		X					
RW-MC-11.1	Must Conform		X					
RW-MC-12	Must Conform		X					
RW-CW-12.1	Comply With			X				
RW-MC-13	Must Conform		X					
RW-CW-14	Comply With			X				
RW-MC-15	Must Conform		X					
RW-MC-16	Must Conform		X					
RW-MC-17	Must Conform	X						
RW-MC-18	Must Conform	X						
RW-CW-19	Comply With			X				X
RW-CW-19.1	Comply With			X				

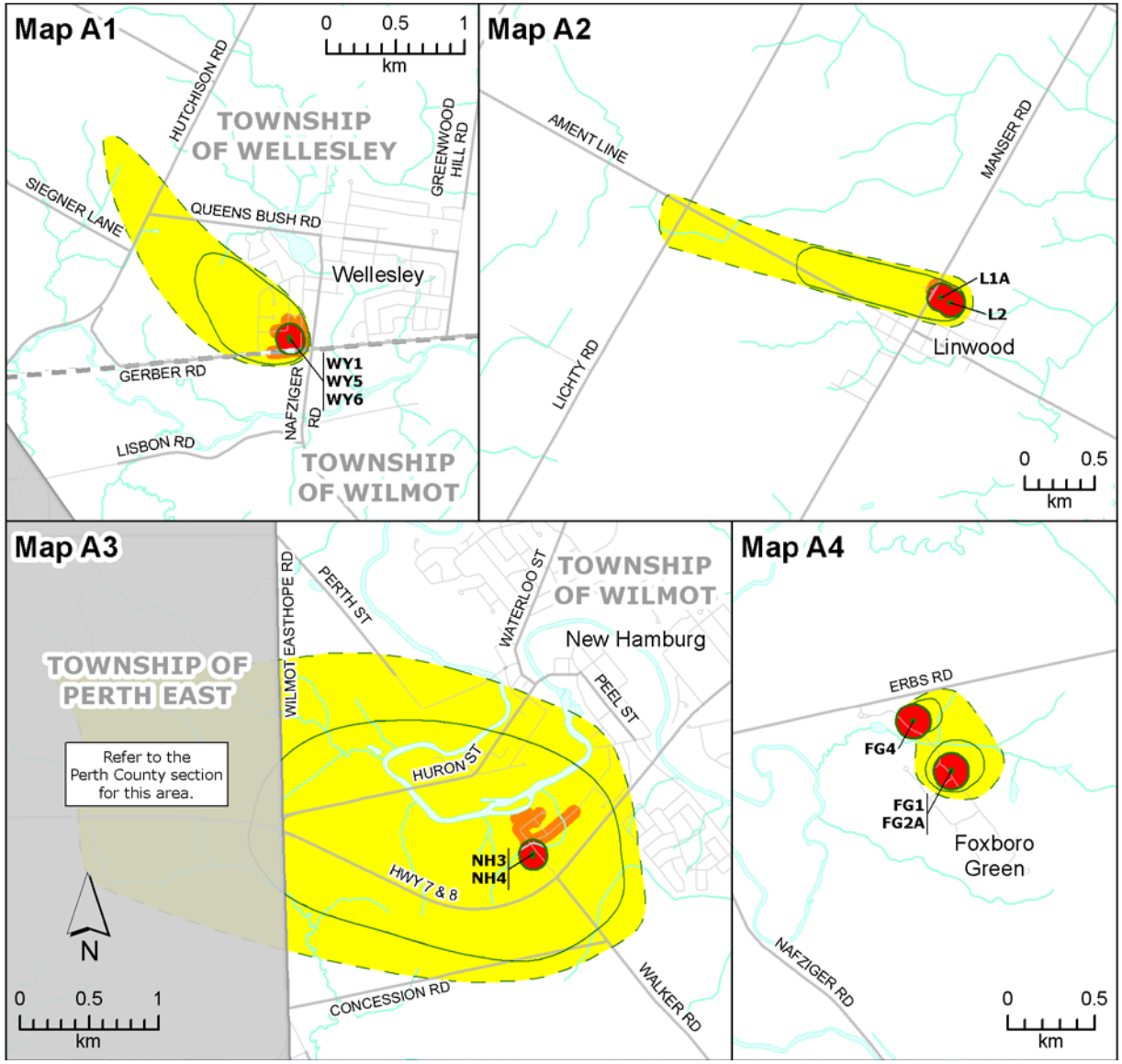
Policy ID#	Legal Effect (conform with, have regard to, non-binding)	Policy affects decisions under the Planning Act and Condominium Act, 1998 (Lists A and B)	Policy affects Prescribed Instrument decisions (Lists C and D)	Significant threat policies that impose obligations on municipalities, source protection authorities and local boards (List E)	Monitoring policies referred to in s.22 (2) of the CWA (List F)	Part IV Policies - Significant threat policies that are designated in the plan as requiring a Risk Management Plan, are prohibited under s. 57, or to which s. 59 of the CWA applies (Lists G, H, and I)	Specify Action Policies (List J)	Significant threat policies targeted to bodies other than municipalities, local boards or source protection authorities for implementation List K)
RW-CW-20	Comply With					X		
RW-CW-20.1	Comply With			X				
RW-CW-21	Comply With					X		
RW-MC-21.1	Must Conform		X					
RW-MC-22	Must Conform		X					
RW-CW-23	Comply With					X		
RW-CW-24	Comply With			X				
RW-CW-25	Must Conform		X					
RW-MC-26	Must Conform		X					
RW-MC-27	Must Conform		X					
RW-CW-28	Comply With					X		
RW-CW-29	Comply With					X		
RW-CW-30	Comply With			X				
RW-CW-31	Comply With					X		
RW-CW-32	Comply With					X		
RW-CW-33	Comply With			X				
RW-CW-34	Comply With					X		
RW-CW-34.1	Comply With					X		
RW-CW-35	Comply With					X		
RW-CW-35.1	Comply With					X		
RW-MC-36	Must Conform	X						
RW-CW-37	Comply With			X				
RW-CW-39	Comply With			X				
RW-NB-39.1	Non-binding						X	
RW-CW/NB-40	Comply With /Non-binding			X				X
RW-CW-41	Comply With					X		
RW-CW-42	Comply With					X		
RW-CW-43	Comply With			X				
RW-NB-44	Non-binding							X
RW-CW-45	Comply With					X		
RW-CW-46	Comply With					X		
RW-MC-47	Must Conform	X						
RW-CW-48	Comply With			X				

Policy ID#	Legal Effect (conform with, have regard to, non-binding)	Policy affects decisions under the Planning Act and Condominium Act, 1998 (Lists A and B)	Policy affects Prescribed Instrument decisions (Lists C and D)	Significant threat policies that impose obligations on municipalities, source protection authorities and local boards (List E)	Monitoring policies referred to in s.22 (2) of the CWA (List F)	Part IV Policies - Significant threat policies that are designated in the plan as requiring a Risk Management Plan, are prohibited under s. 57, or to which s. 59 of the CWA applies (Lists G, H, and I)	Specify Action Policies (List J)	Significant threat policies targeted to bodies other than municipalities, local boards or source protection authorities for implementation List K)
RW-MC-49	Must Conform		X					
RW-CW-50	Comply With					X		
RW-CW-51	Comply With					X		
RW-CW-52	Comply With			X				
RW-CW-53	Comply With			X				
RW-CW-54	Comply With					X		
RW-CW-55	Comply With					X		
RW-CW-55.1	Comply With			X				
RW-CW-56	Comply With					X		
RW-CW-57	Comply With					X		
RW-CW-58	Comply With					X		
RW-CW-59	Comply With			X				
RW-CW-60	Comply With			X				
RW-CW-61	Comply With							X
RW-CW-62	Comply With			X				
~~RW-NB-63~~	~~Non-Binding~~							~~X~~
RW-CW-634	Comply With			X				
RW-CW-645	Comply With			X				
RW-MC-656	Must Conform		X					
RW-MC-667	Must Conform		X					
~~RW-NB-68~~	~~Non-Binding~~							~~X~~
~~RW-NB-69~~	~~Non-Binding~~							~~X~~
RW-NB-6770	Non Binding							X
RW-MC-6871	Must Conform	X		X				

10.5 Schedule A: Region of Waterloo Groundwater Systems: Index Map



10.6 Schedule B: Region of Waterloo Groundwater Systems: Map A



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

Significant Drinking Water Threat Policy Categories		Vulnerability Scores on Map: 10	8	2,4,6
1.	Waste Disposal	■	■	
2.	Sewage Systems	■	■	
3, 4.	Agricultural Source Material	■		
6, 7.	Non-Agricultural Source Material*	■		
8, 9.	Commercial Fertilizer*	■		
10, 11.	Pesticide	■		
12, 13.	Road Salt*	■		
14.	Storage of Snow	■		
15.	Fuel	■		
16.	DNAPLs	■	■	■
17.	Organic Solvents	■		
18.	Aircraft De-icing	■		
21.	Livestock Area	■		
22.	Oil Pipelines	■		

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) within Non-GUDI Wellhead Protection Zones on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.
*Application of Commercial Fertilizer, Non-Agricultural Source Material, and Road Salt may not be a significant drinking water threat in some areas due to the % managed land, livestock density, and/or % impervious surface calculations for these areas. See the text of this plan for further details.

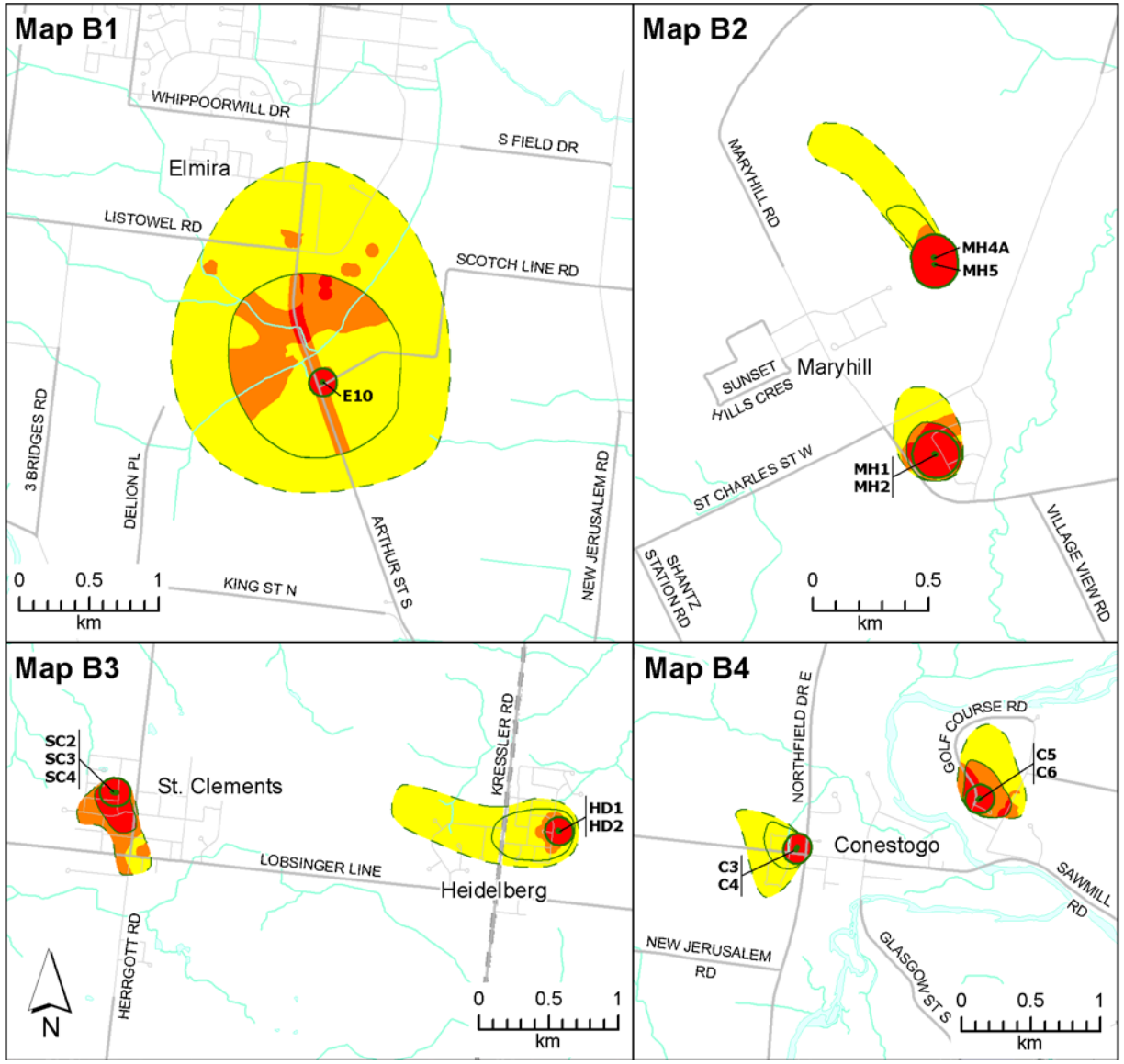
- Well
- Main Road
- Minor River
- Lake / Main River
- Lower Tier Boundary
- Region of Waterloo Boundary

Wellhead Protection Zones:
- WHPA-A
- WHPA-B
- WHPA-C

Grand River Conservation Authority

1. Updated July 24, 2019
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.7 Schedule C: Region of Waterloo Groundwater Systems: Map B



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

	Significant Drinking Water Threat Policy Categories	Vulnerability Scores on Map: 10	8	2,4,6
1.	Waste Disposal	■	■	
2.	Sewage Systems	■	■	
3, 4.	Agricultural Source Material	■		
6, 7.	Non-Agricultural Source Material*	■		
8, 9.	Commercial Fertilizer*	■		
10, 11.	Pesticide	■		
12, 13.	Road Salt*	■		
14.	Storage of Snow	■		
15.	Fuel	■		
16.	DNAPLs	■	■	■
17.	Organic Solvents	■		
18.	Aircraft De-icing	■		
21.	Livestock Area	■		
22.	Oil Pipelines	■		

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) within Non-GUDI Wellhead Protection Zones on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.
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- Well
- Main Road
- Minor River
- Lake / Main River
- Lower Tier Boundary

Wellhead Protection Zones:
- WHPA-A
- WHPA-B
- WHPA-C

Grand River Conservation Authority

1. Updated August 22, 2019
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
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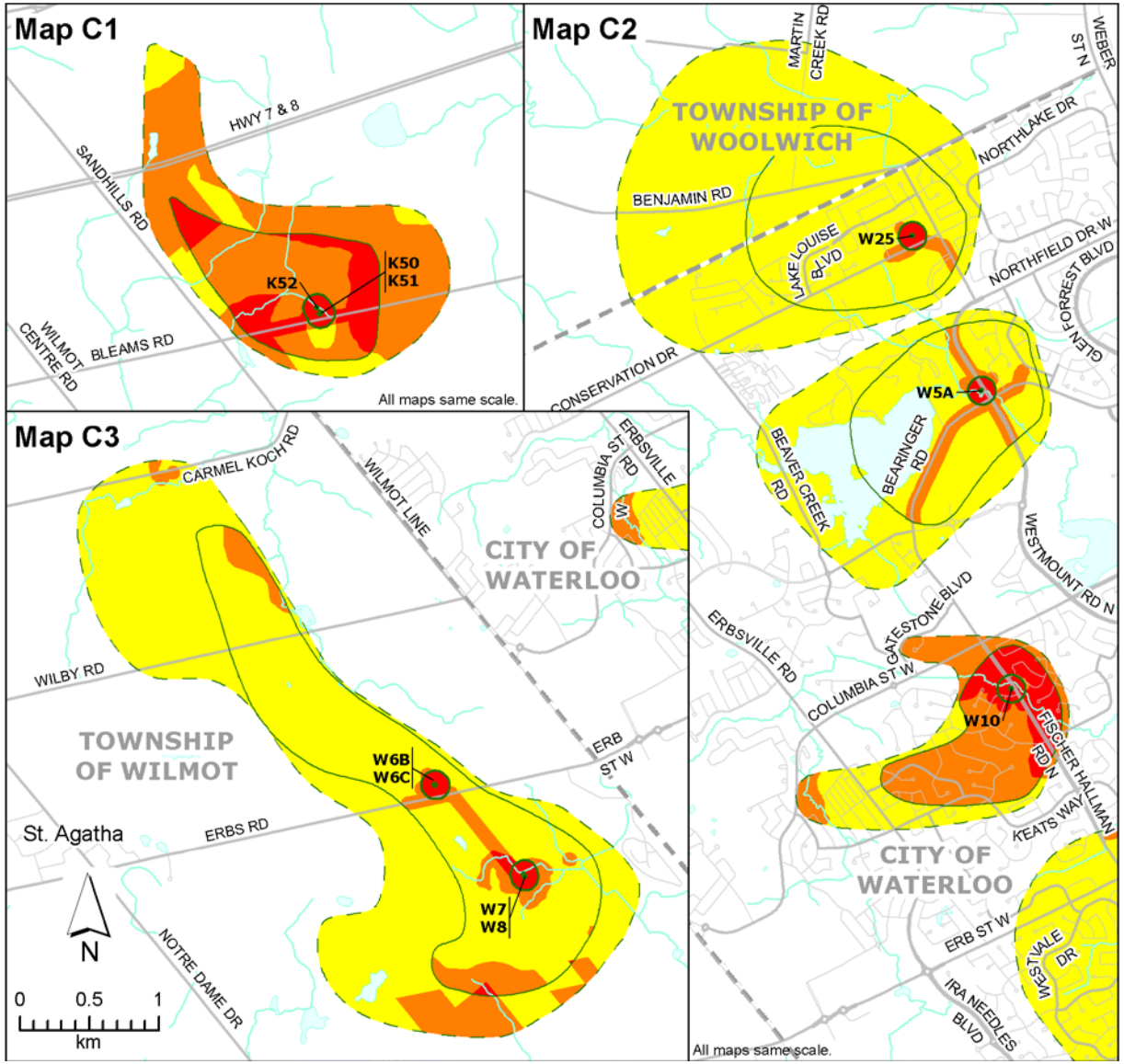
10.8 Schedule D: Region of Waterloo Groundwater Systems: Map C



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

	Significant Drinking Water Threat Policy Categories	Vulnerability Scores on Map: 10	8	2,4,6
1.	Waste Disposal	■	■	
2.	Sewage Systems	■	■	
3, 4.	Agricultural Source Material	■		
6, 7.	Non-Agricultural Source Material*	■		
8, 9.	Commercial Fertilizer*	■		
10, 11.	Pesticide	■		
12, 13.	Road Salt*	■		
14.	Storage of Snow	■		
15.	Fuel	■		
16.	DNAPLs	■	■	■
17.	Organic Solvents	■		
18.	Aircraft De-icing	■		
21.	Livestock Area	■		
22.	Oil Pipelines	■		

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) within Non-GUDI Wellhead Protection Zones on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.
*Application of Commercial Fertilizer, Non-Agricultural Source Material, and Road Salt may not be a significant drinking water threat in some areas due to the % managed land, livestock density, and/or % impervious surface calculations for these areas. See the text of this plan for further details.

- Well
- Main Road
- Minor River
- Lake / Main River
- Lower Tier Boundary

Wellhead Protection Zones:
- WHPA-A
- WHPA-B
- WHPA-C

Grand River Conservation Authority

1. Updated July 17, 2019
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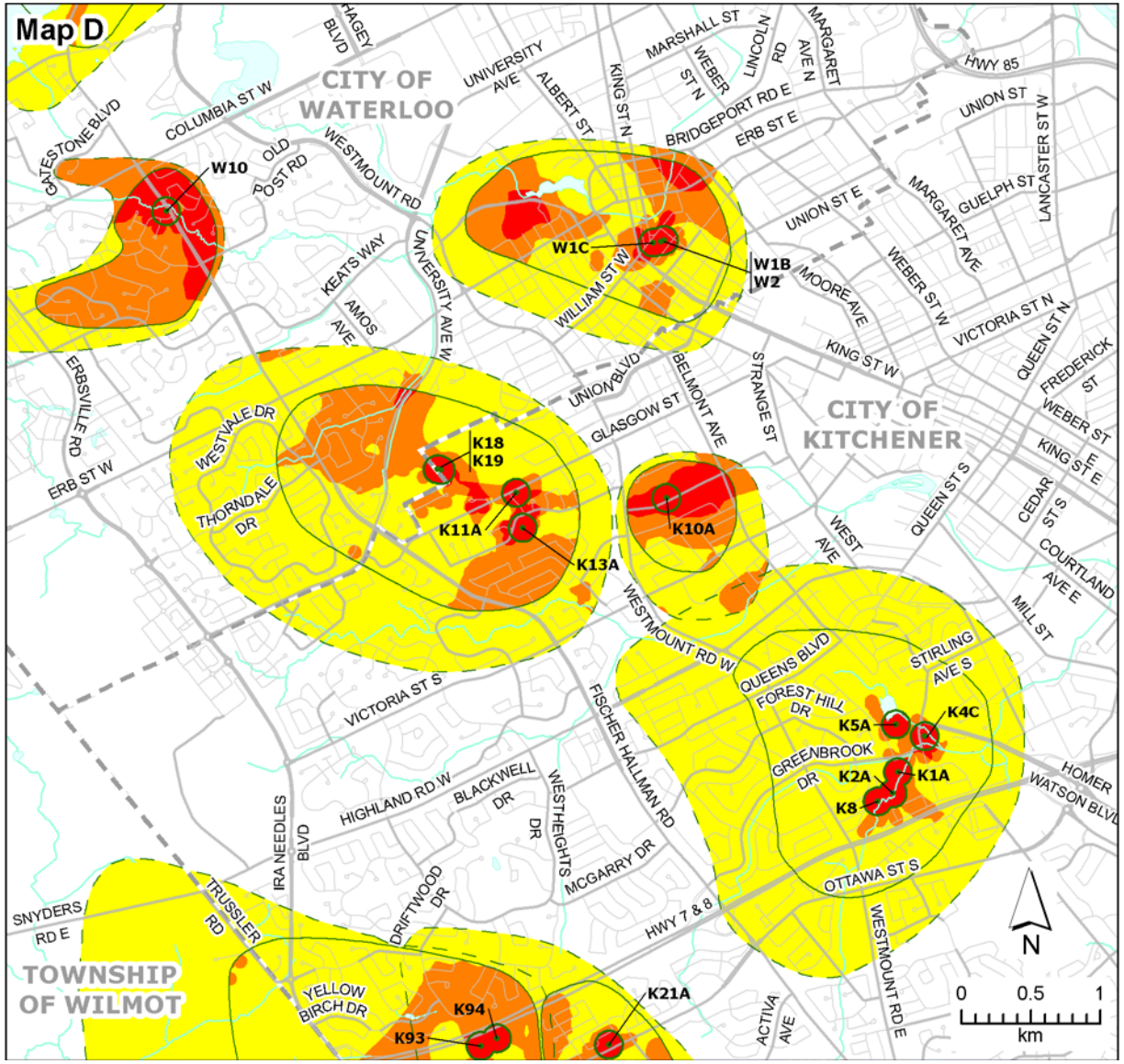
10.9 Schedule E: Region of Waterloo Groundwater Systems: Map D



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

	Significant Drinking Water Threat Policy Categories	Vulnerability Scores on Map: 10	8	2,4,6
1.	Waste Disposal			
2.	Sewage Systems			
3, 4.	Agricultural Source Material			
6, 7.	Non-Agricultural Source Material*			
8, 9.	Commercial Fertilizer*			
10, 11.	Pesticide			
12, 13.	Road Salt*			
14.	Storage of Snow			
15.	Fuel			
16.	DNAPLs			
17.	Organic Solvents			
18.	Aircraft De-icing			
21.	Livestock Area			
22.	Oil Pipelines			

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) within Non-GUDI Wellhead Protection Zones on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.
*Application of Commercial Fertilizer, Non-Agricultural Source Material, and Road Salt may not be a significant drinking water threat in some areas due to the %managed land, livestock density, and/or % impervious surface calculations for these areas. See the text of this plan for further details.

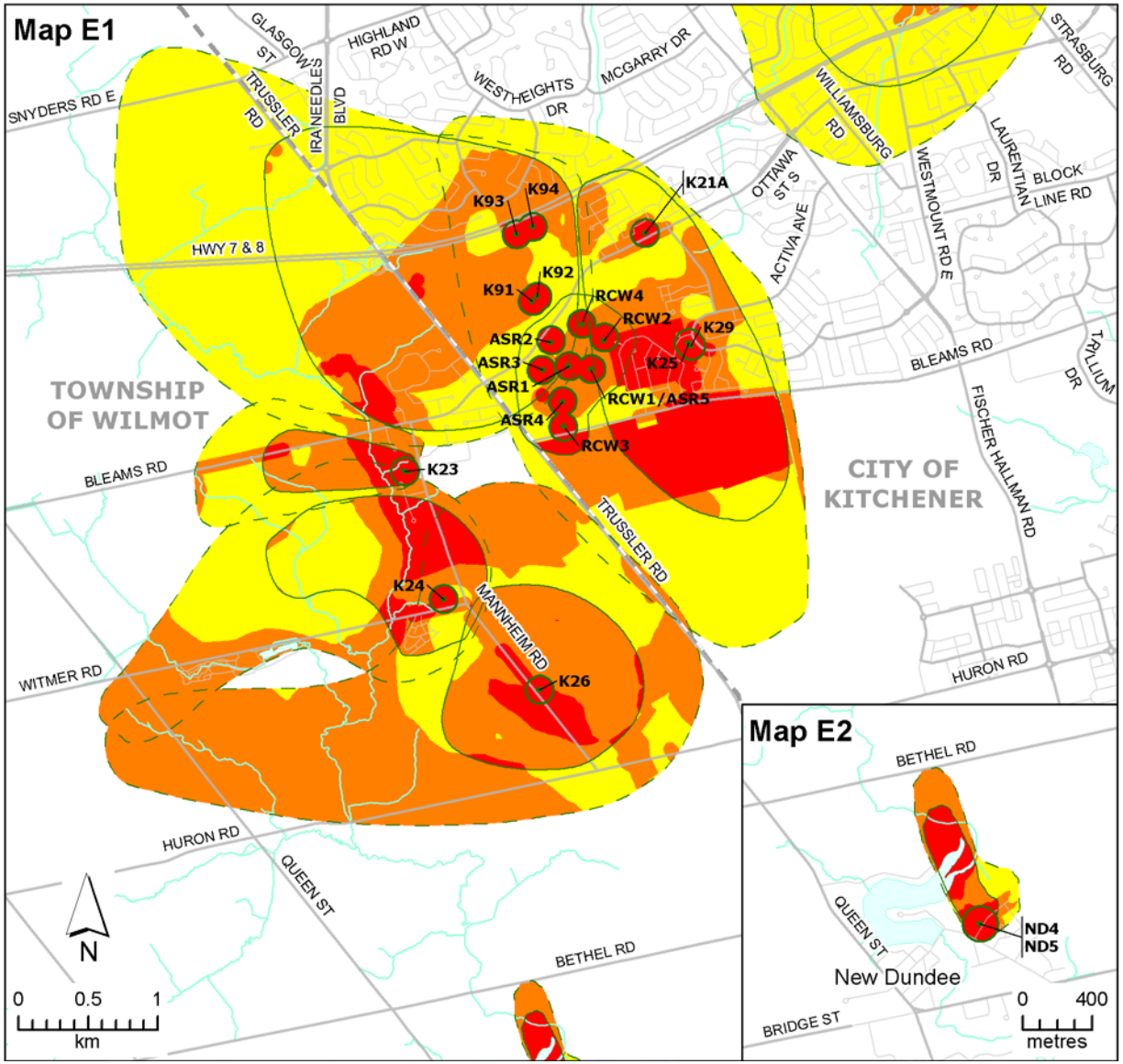
- Well
- Main Road
- Minor River
- Lake / Main River
- Lower Tier Boundary

Wellhead Protection Zones:
- WHPA-A
- WHPA-B
- WHPA-C

Grand River Conservation Authority

1. Updated July 17, 2019
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.10 Schedule F: Region of Waterloo Groundwater Systems: Map E



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

	Significant Drinking Water Threat Policy Categories	Vulnerability Scores on Map: 10	8	2,4,6
1.	Waste Disposal	■	■	
2.	Sewage Systems	■	■	
3, 4.	Agricultural Source Material	■		
6, 7.	Non-Agricultural Source Material*	■		
8, 9.	Commercial Fertilizer*	■		
10, 11.	Pesticide	■		
12, 13.	Road Salt*	■		
14.	Storage of Snow	■		
15.	Fuel	■		
16.	DNAPLs	■	■	■
17.	Organic Solvents	■		
18.	Aircraft De-icing	■		
21.	Livestock Area	■		
22.	Oil Pipelines	■		

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) within Non-GUDI Wellhead Protection Zones on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.
*Application of Commercial Fertilizer, Non-Agricultural Source Material, and Road Salt may not be a significant drinking water threat in some areas due to the % managed land, livestock density, and/or % impervious surface calculations for these areas. See the text of this plan for further details.

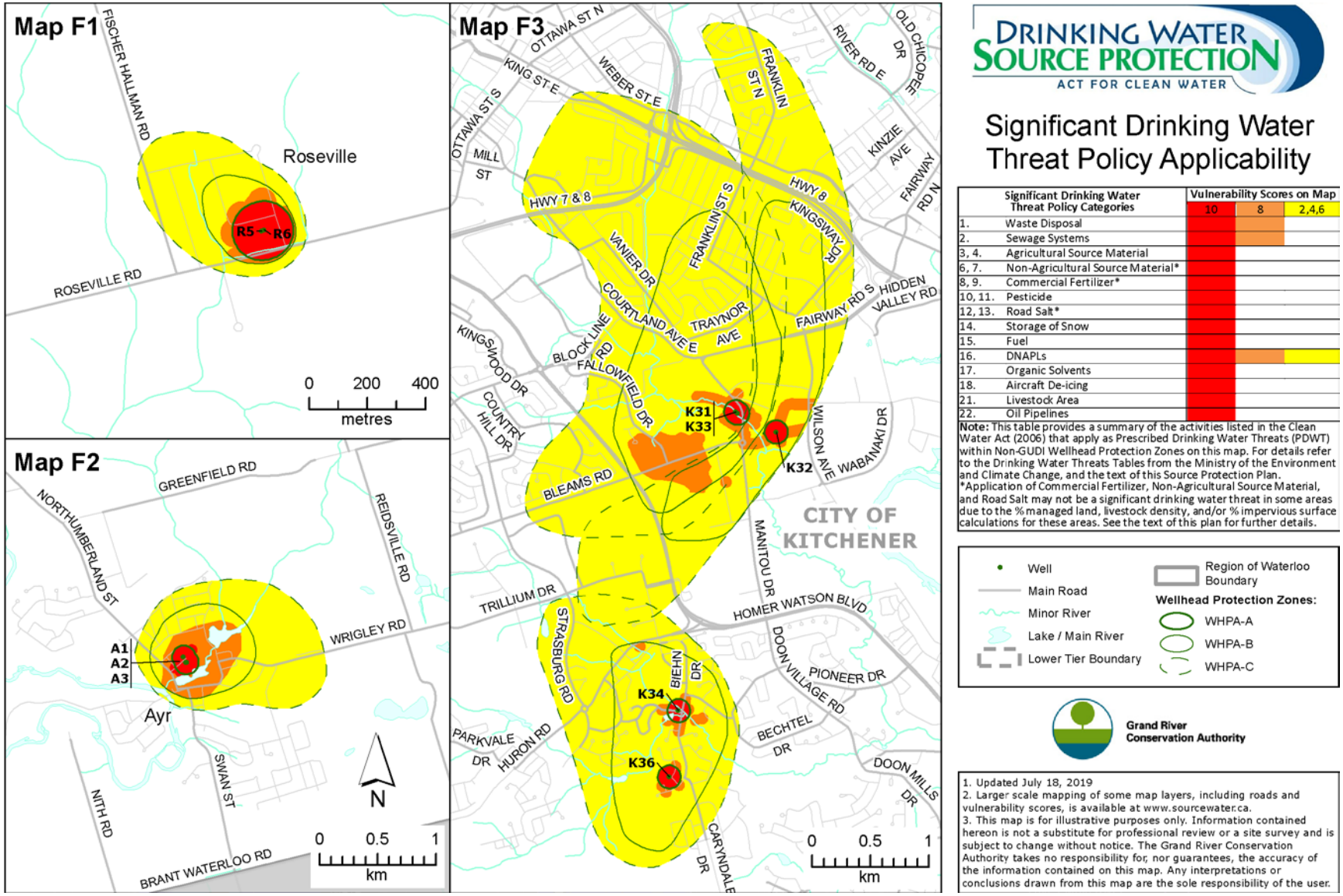
- Well
- Main Road
- Minor River
- Lake / Main River
- Lower Tier Boundary
- Region of Waterloo Boundary

Wellhead Protection Zones:
- WHPA-A
- WHPA-B
- WHPA-C

Grand River Conservation Authority

1. Updated September 25, 2020
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.11 Schedule G: Region of Waterloo Groundwater Systems Map: F



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

Significant Drinking Water Threat Policy Categories		Vulnerability Scores on Map: 10	8	2,4,6
1.	Waste Disposal	■	■	
2.	Sewage Systems	■	■	
3, 4.	Agricultural Source Material	■		
6, 7.	Non-Agricultural Source Material*	■		
8, 9.	Commercial Fertilizer*	■		
10, 11.	Pesticide	■		
12, 13.	Road Salt*	■		
14.	Storage of Snow	■		
15.	Fuel	■		
16.	DNAPLs	■	■	■
17.	Organic Solvents	■		
18.	Aircraft De-icing	■		
21.	Livestock Area	■		
22.	Oil Pipelines	■		

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) within Non-GUDI Wellhead Protection Zones on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.
*Application of Commercial Fertilizer, Non-Agricultural Source Material, and Road Salt may not be a significant drinking water threat in some areas due to the % managed land, livestock density, and/or % impervious surface calculations for these areas. See the text of this plan for further details.

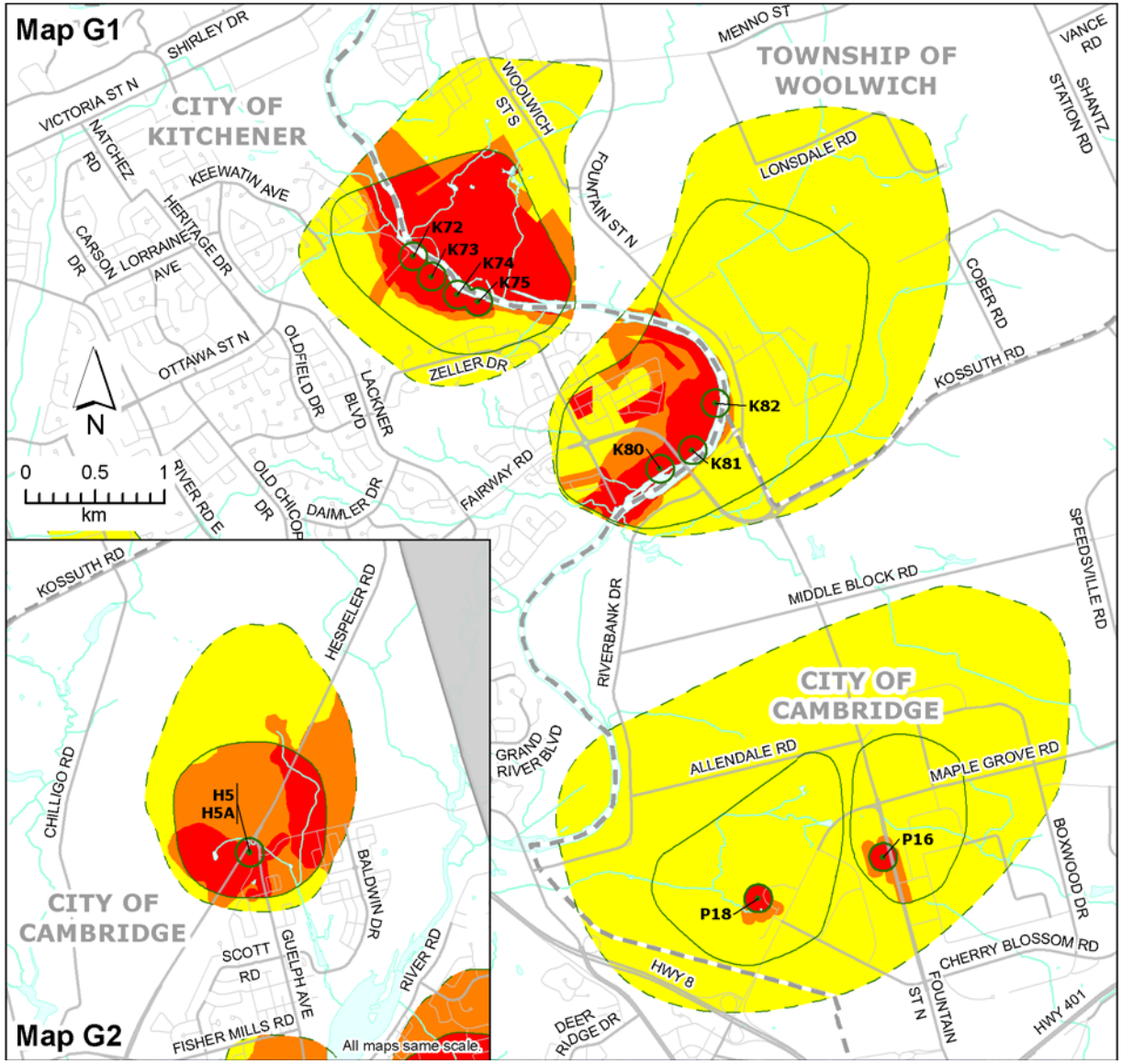
- Well
- Main Road
- Minor River
- Lake / Main River
- Lower Tier Boundary
- Region of Waterloo Boundary

Wellhead Protection Zones:
- WHPA-A
- WHPA-B
- WHPA-C

Grand River Conservation Authority

1. Updated July 18, 2019
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.12 Schedule H: Region of Waterloo Groundwater Systems: Map G



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

Significant Drinking Water Threat Policy Categories		Vulnerability Scores on Map 10	8	2,4,6
1.	Waste Disposal	■	■	
2.	Sewage Systems	■	■	
3, 4.	Agricultural Source Material	■		
6, 7.	Non-Agricultural Source Material*	■		
8, 9.	Commercial Fertilizer*	■		
10, 11.	Pesticide	■		
12, 13.	Road Salt*	■		
14.	Storage of Snow	■		
15.	Fuel	■		
16.	DNAPLs	■	■	■
17.	Organic Solvents	■		
18.	Aircraft De-icing	■		
21.	Livestock Area	■		
22.	Oil Pipelines	■		

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) within Non-GUDI Wellhead Protection Zones on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.
*Application of Commercial Fertilizer, Non-Agricultural Source Material, and Road Salt may not be a significant drinking water threat in some areas due to the % managed land, livestock density, and/or % impervious surface calculations for these areas. See the text of this plan for further details.

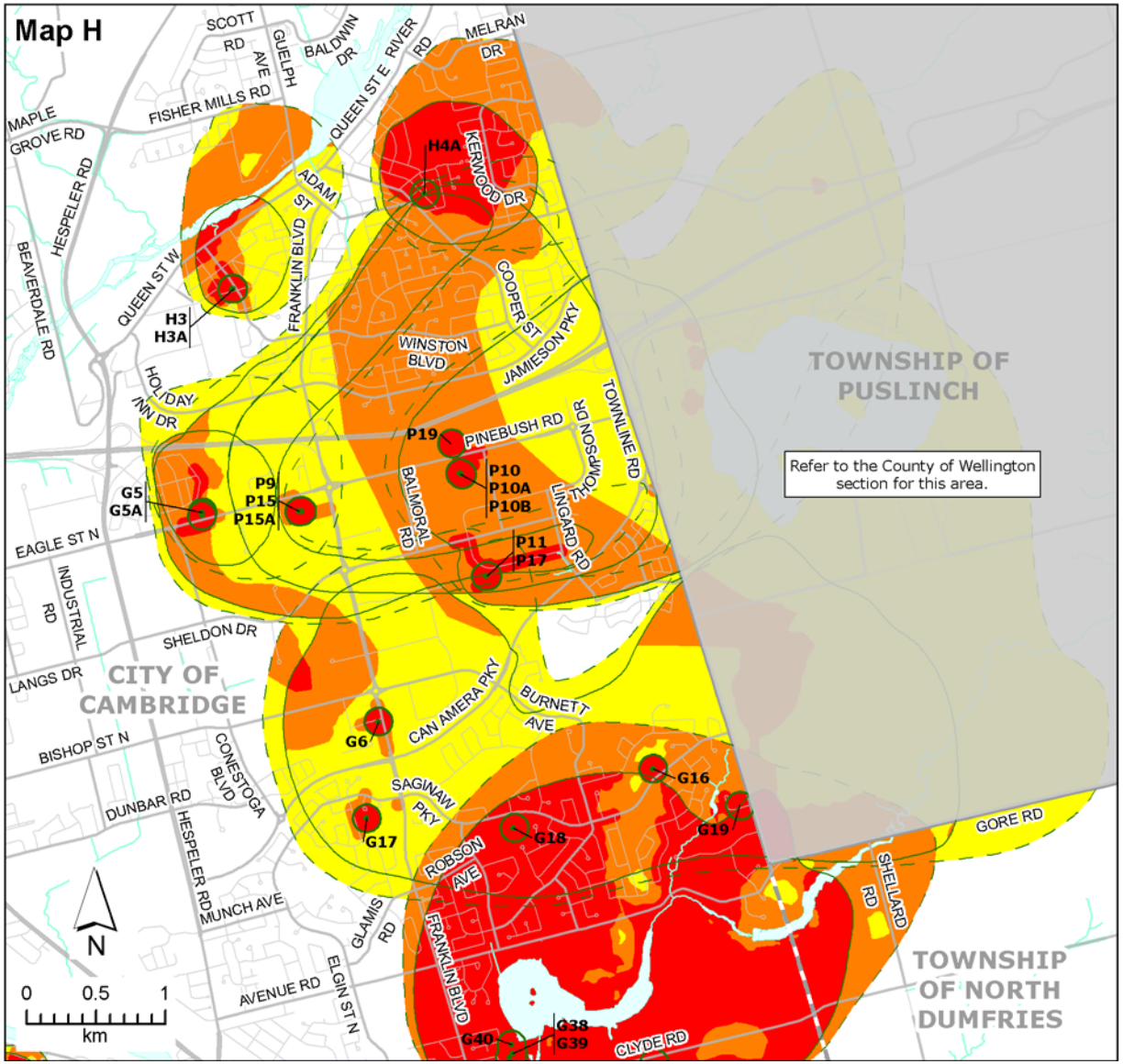
- Well
- Main Road
- Minor River
- Lake / Main River
- Lower Tier Boundary
- Region of Waterloo Boundary

Wellhead Protection Zones:
- WHPA-A
- WHPA-B
- WHPA-C

Grand River Conservation Authority

1. Updated July 18, 2019
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.13 Schedule I: Region of Waterloo Groundwater Systems: Map H



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

	Significant Drinking Water Threat Policy Categories	Vulnerability Scores on Map 10	8	2,4,6
1.	Waste Disposal	■	■	
2.	Sewage Systems	■	■	
3, 4.	Agricultural Source Material	■		
6, 7.	Non-Agricultural Source Material*	■		
8, 9.	Commercial Fertilizer*	■		
10, 11.	Pesticide	■		
12, 13.	Road Salt*	■		
14.	Storage of Snow	■		
15.	Fuel	■		
16.	DNAPLs	■	■	■
17.	Organic Solvents	■		
18.	Aircraft De-icing	■		
21.	Livestock Area	■		
22.	Oil Pipelines	■		

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) within Non-GUDI Wellhead Protection Zones on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.
*Application of Commercial Fertilizer, Non-Agricultural Source Material, and Road Salt may not be a significant drinking water threat in some areas due to the % managed land, livestock density, and/or % impervious surface calculations for these areas. See the text of this plan for further details.

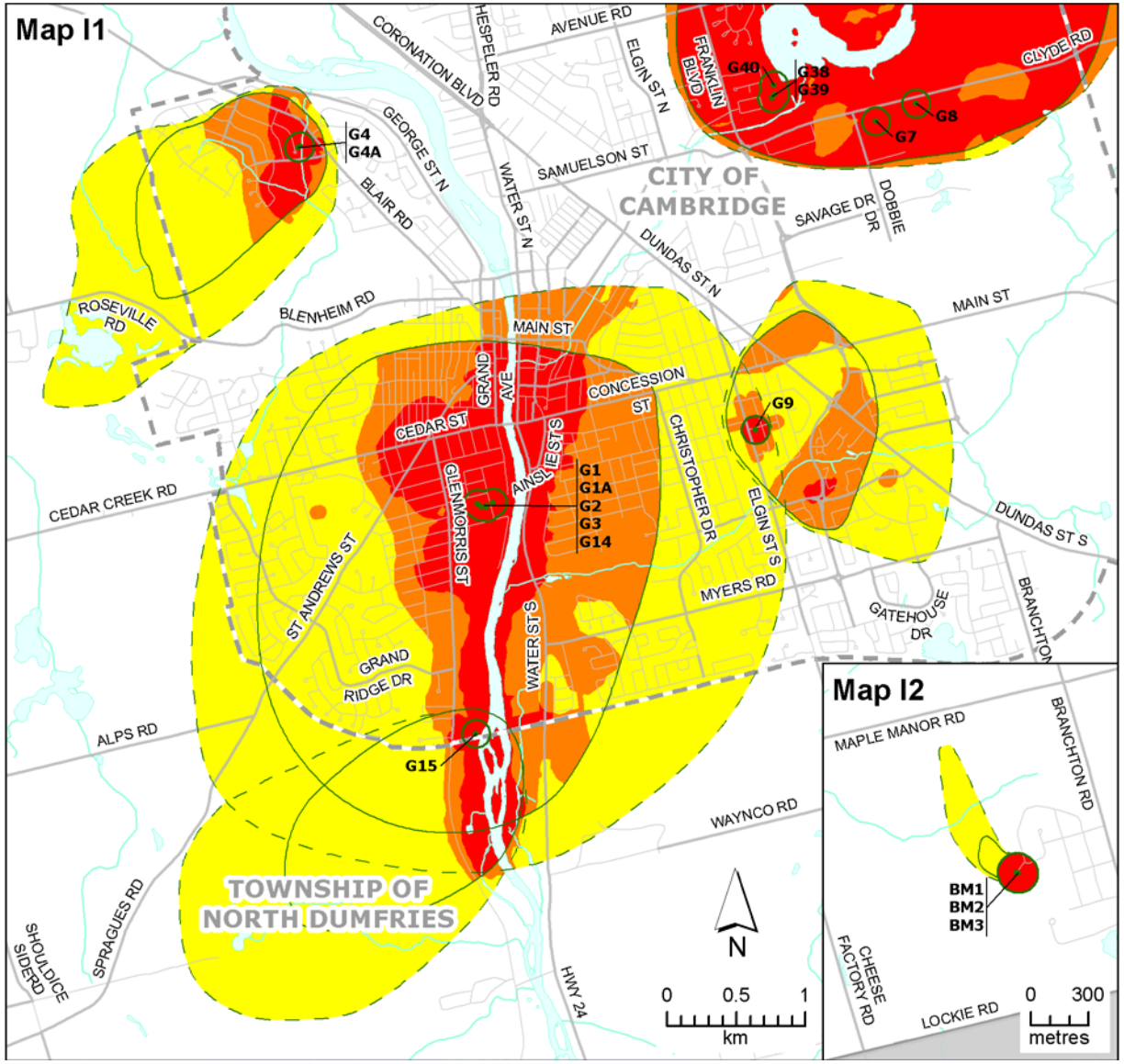
- Well
- Main Road
- Minor River
- Lake / Main River
- Lower Tier Boundary
- Region of Waterloo Boundary

Wellhead Protection Zones:
- WHPA-A
- WHPA-B
- WHPA-C

Grand River Conservation Authority

1. Updated September 25, 2020
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.14 Schedule J: Region of Waterloo Groundwater Systems: Map I



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

	Significant Drinking Water Threat Policy Categories	Vulnerability Scores on Map: 10	8	2,4,6
1.	Waste Disposal	■	■	
2.	Sewage Systems	■	■	
3, 4.	Agricultural Source Material	■		
6, 7.	Non-Agricultural Source Material*	■		
8, 9.	Commercial Fertilizer*	■		
10, 11.	Pesticide	■		
12, 13.	Road Salt*	■		
14.	Storage of Snow	■		
15.	Fuel	■		
16.	DNAPLs	■	■	■
17.	Organic Solvents	■		
18.	Aircraft De-icing	■		
21.	Livestock Area	■		
22.	Oil Pipelines	■		

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) within Non-GUDI Wellhead Protection Zones on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.
*Application of Commercial Fertilizer, Non-Agricultural Source Material, and Road Salt may not be a significant drinking water threat in some areas due to the % managed land, livestock density, and/or % impervious surface calculations for these areas. See the text of this plan for further details.

- Well
- Main Road
- Minor River
- Lake / Main River
- Lower Tier Boundary
- Region of Waterloo Boundary

Wellhead Protection Zones:
- WHPA-A
- WHPA-B
- WHPA-C

Grand River Conservation Authority

1. Updated July 18, 2019
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.15 Schedule K: Region of Waterloo GUDI Systems: Index Map

DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

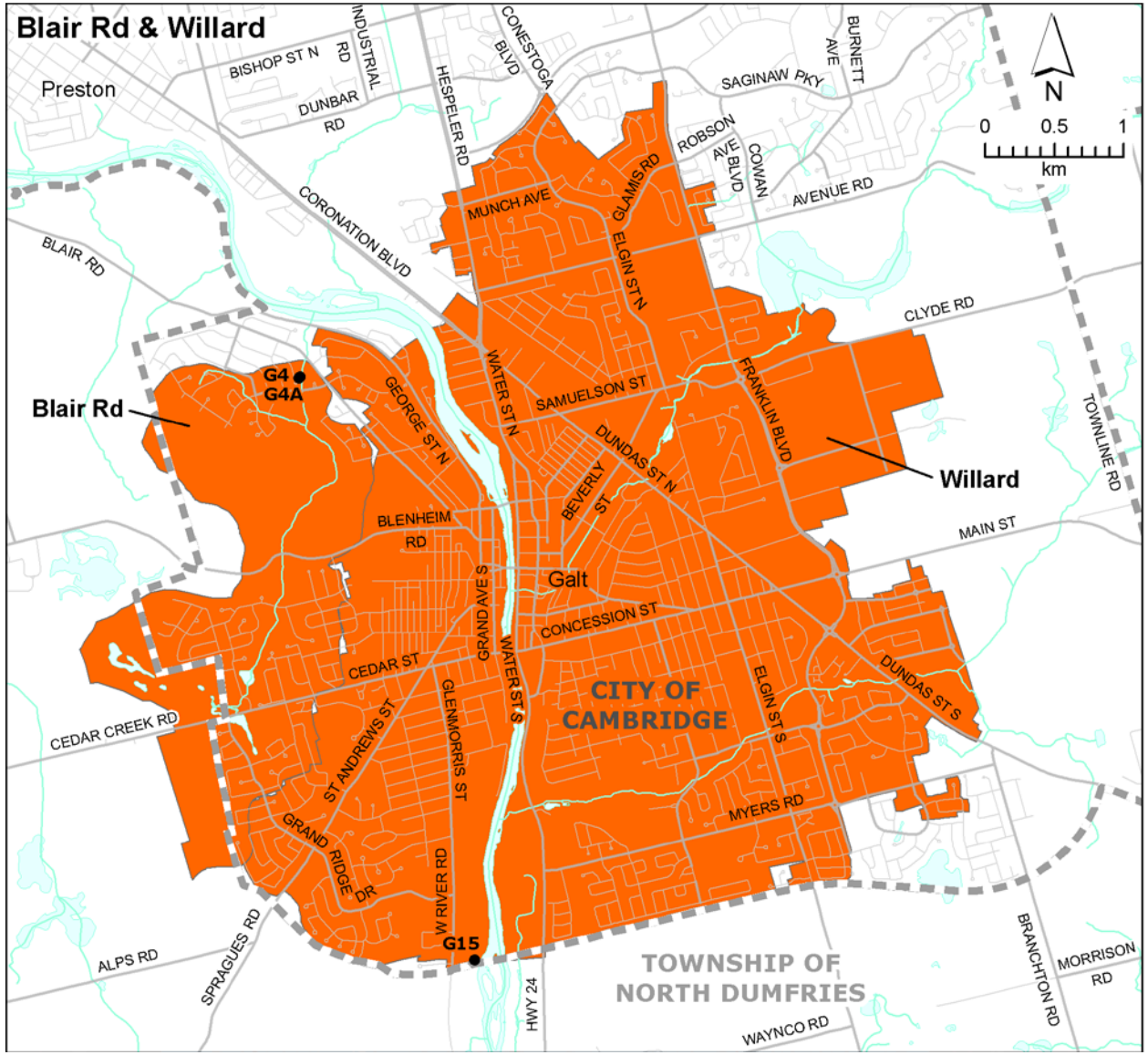
Index Map - Groundwater Under Direct Influence of Surface Water (GUDI) Protection Zones

- Main Roads
- Upper Tier Boundary
- Lower Tier Boundary
- GUDI Protection Zone Where Policies Apply

Grand River Conservation Authority

1. Updated January 25, 2019.
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.16 Schedule L: Region of Waterloo GUDI Systems: Blair Rd & Willard



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

Significant Drinking Water Threat Policy Categories	
1.	Waste Disposal
2.	Sewage Systems
3, 4.	Agricultural Source Material
6, 7.	Non-Agricultural Source Material*
10.	Application of Pesticide
21.	Livestock Area

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) within the Groundwater Under Direct Influence of Surface Water (GUDI) Zones shown on this map. For details refer to the text of the Source Protection Plan and the Ministry of the Environment Drinking Water Threats Tables.
*Application of Non-Agricultural Source Material may not be a significant drinking water threat in some areas due to the % managed land and/or livestock density calculations for these areas. See the text of the plan for further details.

- Blair Rd & Willard Wells Under the Direct Influence of Surface Water (GUDI)
- Roads
- Minor Rivers
- Lakes / Main Rivers
- Lower Tier Municipal Boundary

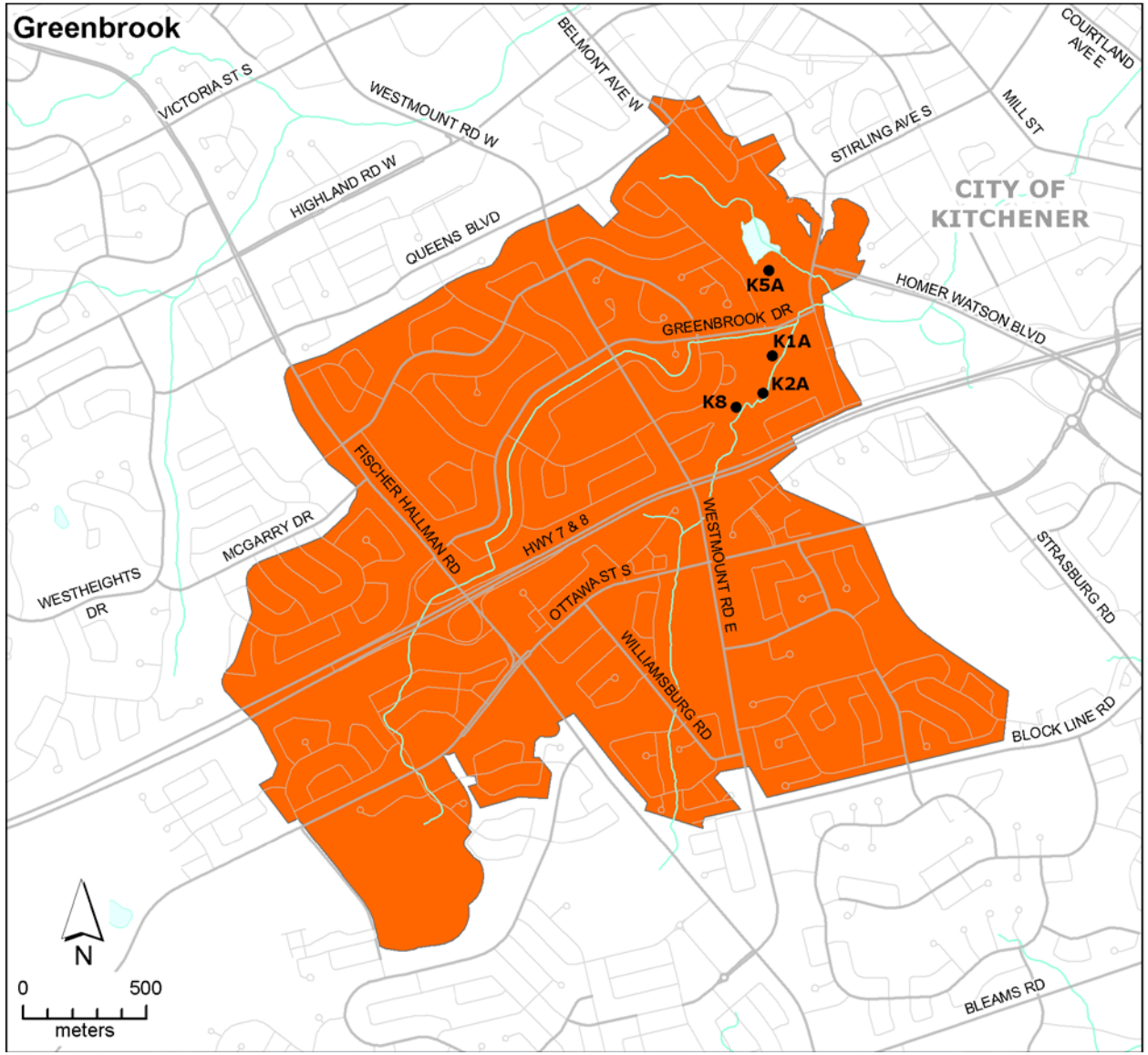
GUDI Protection Zones:

- Vulnerability Score = 8.1

Grand River Conservation Authority

1. Updated July 24, 2019
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.17 Schedule M: Region of Waterloo GUDI Systems: Greenbrook



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

Significant Drinking Water Threat Policy Categories	
1.	Waste Disposal
2.	Sewage Systems
3, 4.	Agricultural Source Material
6, 7.	Non-Agricultural Source Material*
10.	Application of Pesticide
21.	Livestock Area

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) within the Groundwater Under Direct Influence of Surface Water (GUDI) Zones shown on this map. For details refer to the text of the Source Protection Plan and the Ministry of the Environment Drinking Water Threats Tables.
*Application of Non-Agricultural Source Material may not be a significant drinking water threat in some areas due to the % managed land and/or livestock density calculations for these areas. See the text of the plan for further details.

- Greenbrook Wells Under the Direct Influence of Surface Water (GUDI)
- Roads
- Minor Rivers
- Lakes / Main Rivers

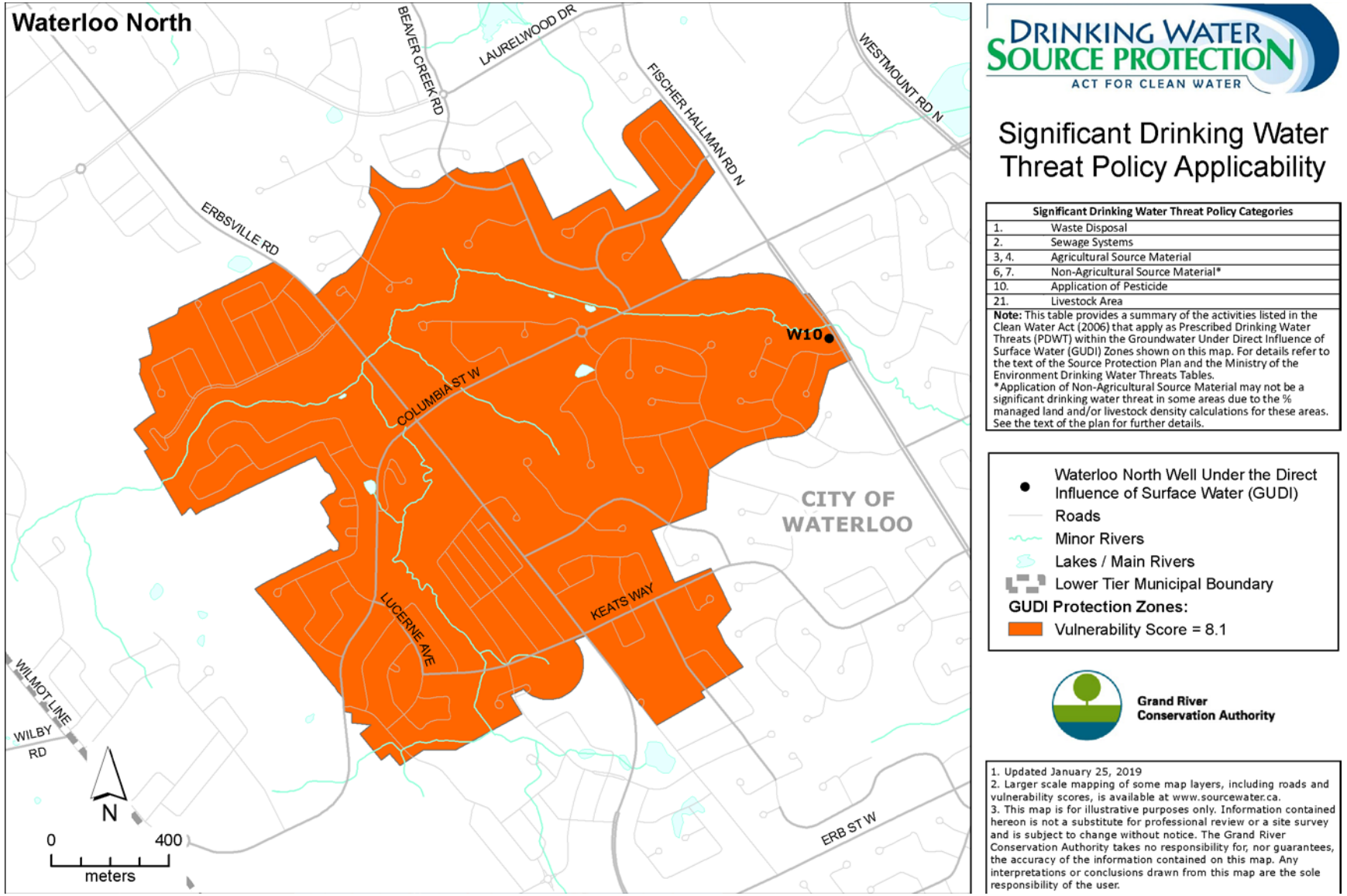
GUDI Protection Zones:

- Vulnerability Score = 8.1

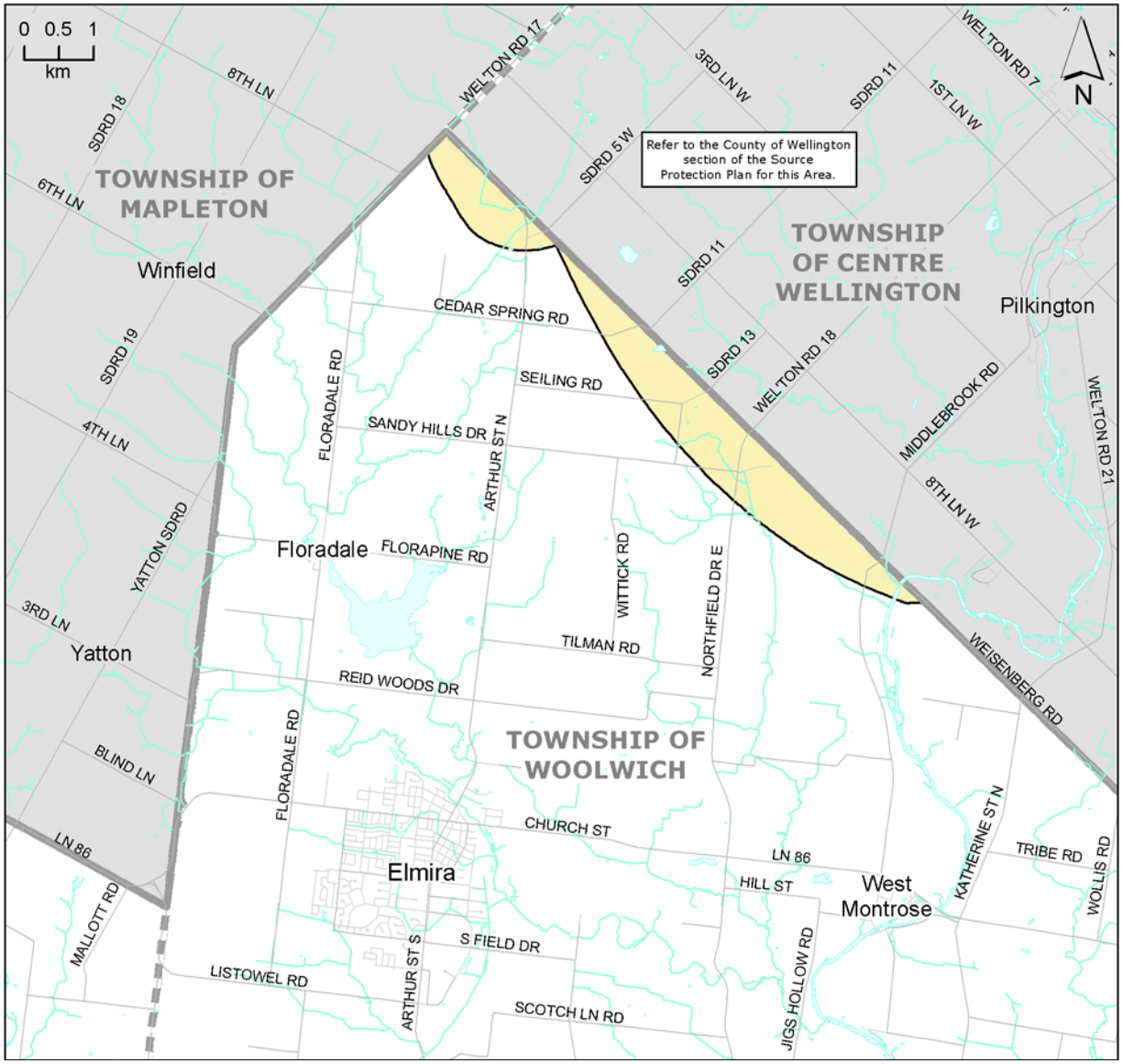
Grand River Conservation Authority

1. Updated July 24, 2019.
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.18 Schedule N: Region of Waterloo GUDI Systems: Waterloo North



10.19 Schedule O: Regional Municipality of Waterloo Wellhead Protection Area, Water Quantity: Township of Woolwich



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

Significant Drinking Water Threat Policy Categories
19. An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body.
20. An activity that reduces the recharge of an aquifer.

Note: The above activity categories are those listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) in the significant risk WHPA-Q1/Q2 & IPZ-Q areas shown on this map. For details refer to the text of this Source Protection Plan and the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change.

- Minor Rivers
- Lakes / Main Rivers
- Main Roads
- Upper / Single Tier Municipal Boundary
- Lower Tier Municipal Boundary
- WHPA-Q

Grand River Conservation Authority

1. Updated September 15, 2020
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.20 Schedule P~~O~~: Region of Waterloo Issue Contributing Areas: Index Map

DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

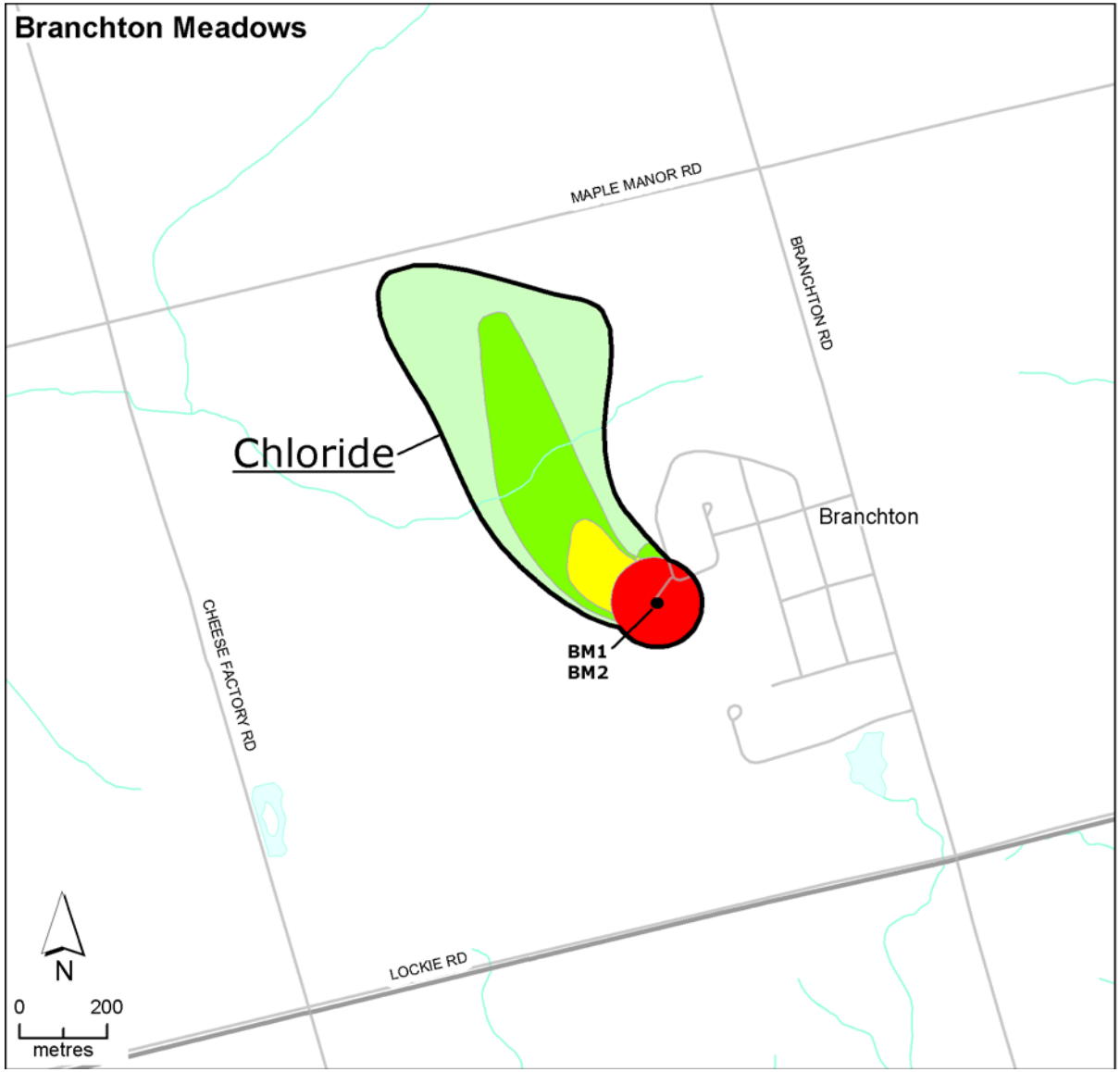
Index Map - Issue Contributing Areas

Main Roads
Upper Tier Boundary
Lower Tier Boundary
Issue Contributing Area

Grand River Conservation Authority

1. Updated July 24, 2019.
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.21 Schedule QP: Region of Waterloo Issue Contributing Areas: Branchton Meadows



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

Significant Drinking Water Threat Policy Categories		Identified Issue			
		Chloride	Nitrate	Sodium	TCE
1.	Waste Disposal		Y		Y
2.	Sewage Systems	Y	Y	Y	Y
3, 4.	Agricultural Source Material		Y		
6, 7.	Non-Agricultural Source Material		Y		
8, 9.	Commercial Fertilizer		Y		
12, 13.	Road Salt	Y		Y	
14.	Storage of Snow	Y	Y	Y	
16.	DNAPLs				Y
21.	Livestock Area		Y		

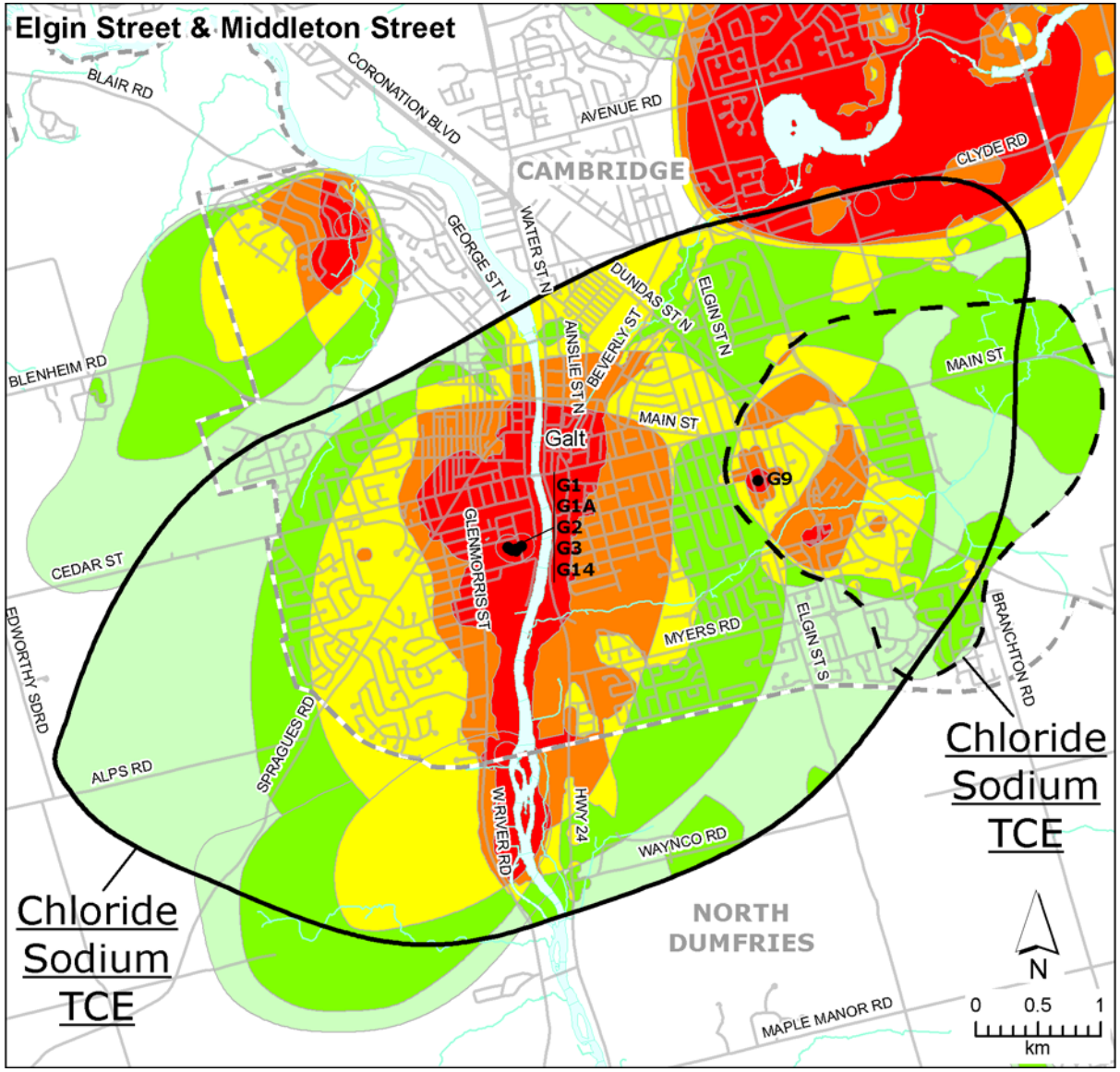
Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) in the Issue Contributing Area(s) shown on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.

Well with Identified Issue(s)
Roads
Minor Rivers
Lakes / Main Rivers
Region of Waterloo Boundary
Issue Contributing Area
Vulnerability Score
2 4 6 8 10
Issue
Associated Issue Parameter

Grand River Conservation Authority

1. Updated September 10, 2019
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.22 Schedule RQ: Region of Waterloo Issue Contributing Areas: Elgin & Middleton Street



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

Significant Drinking Water Threat Policy Categories		Identified Issue			
		Chloride	Nitrate	Sodium	TCE
1.	Waste Disposal		Y		Y
2.	Sewage Systems	Y	Y	Y	Y
3, 4.	Agricultural Source Material		Y		
6, 7.	Non-Agricultural Source Material		Y		
8, 9.	Commercial Fertilizer		Y		
12, 13.	Road Salt	Y		Y	
14.	Storage of Snow	Y	Y	Y	
16.	DNAPLs				Y
21.	Livestock Area		Y		

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) in the Issue Contributing Area(s) shown on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.

- Well with Identified Issue(s)
- Roads
- Minor Rivers
- Lakes / Main Rivers
- Lower Tier Boundary
- Middleton Street Issue Contributing Areas
- Elgin Street Issue Contributing Areas

Vulnerability Score

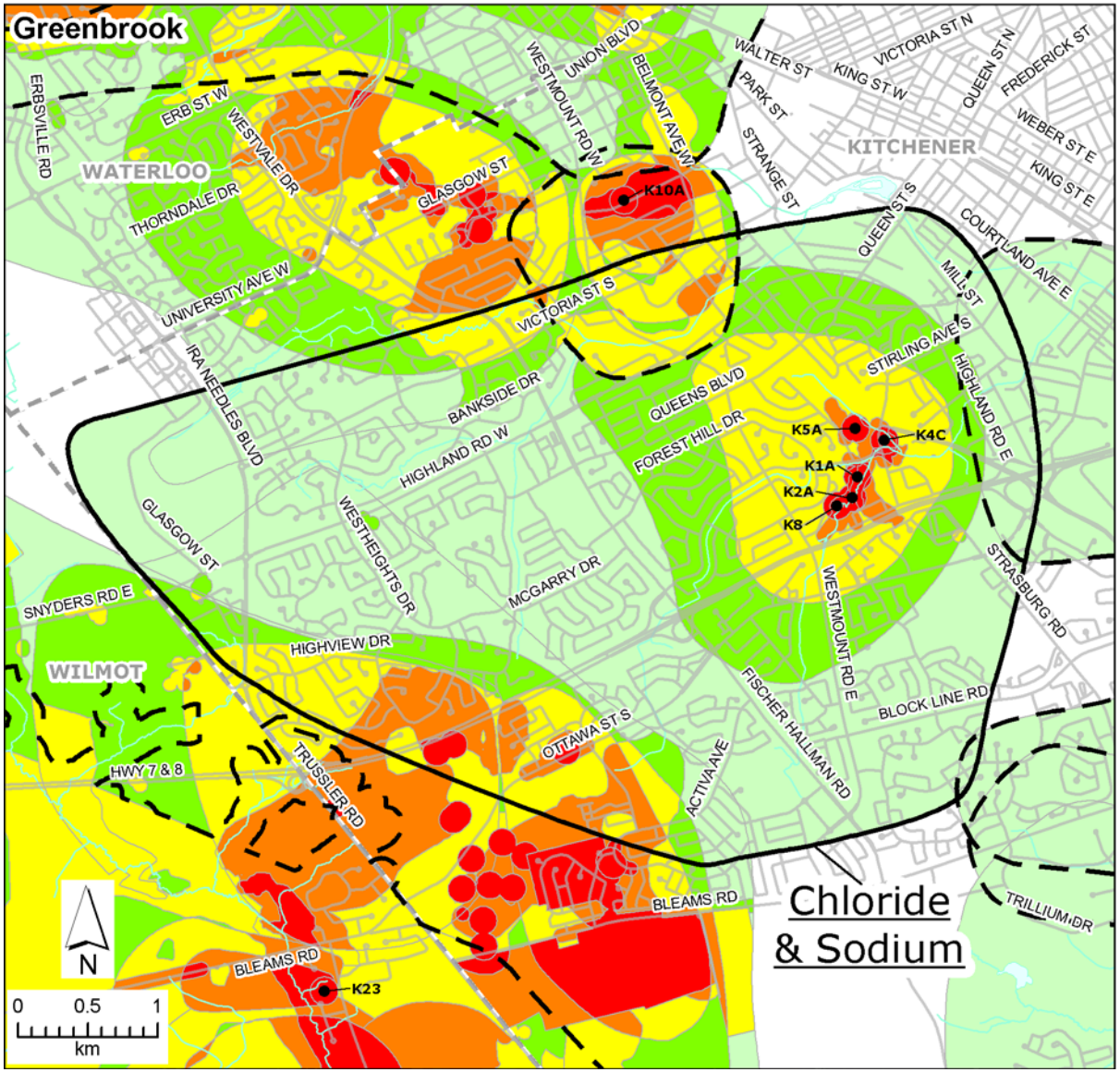
2 4 6 8 10

Issue — Associated Issue Parameter

Grand River Conservation Authority

1. Updated September 25, 2020
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.23 Schedule S~~R~~: Region of Waterloo Issue Contributing Areas: Greenbrook



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

Significant Drinking Water Threat Policy Categories		Identified Issue			
		Chloride	Nitrate	Sodium	TCE
1.	Waste Disposal		Y		Y
2.	Sewage Systems	Y	Y	Y	Y
3, 4.	Agricultural Source Material		Y		
6, 7.	Non-Agricultural Source Material		Y		
8, 9.	Commercial Fertilizer		Y		
12, 13.	Road Salt	Y		Y	
14.	Storage of Snow	Y	Y	Y	
16.	DNAPLs				Y
21.	Livestock Area		Y		

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) in the Issue Contributing Area(s) shown on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.

- Well with Identified Issue(s)
- Roads
- Minor Rivers
- Lakes / Main Rivers
- Lower Tier Boundary
- Greenbrook Issue Contributing Area
- Other Issue Contributing Areas

Vulnerability Score

2 4 6 8 10

Issue — Associated Issue Parameter

Grand River Conservation Authority

1. Updated September 25, 2020
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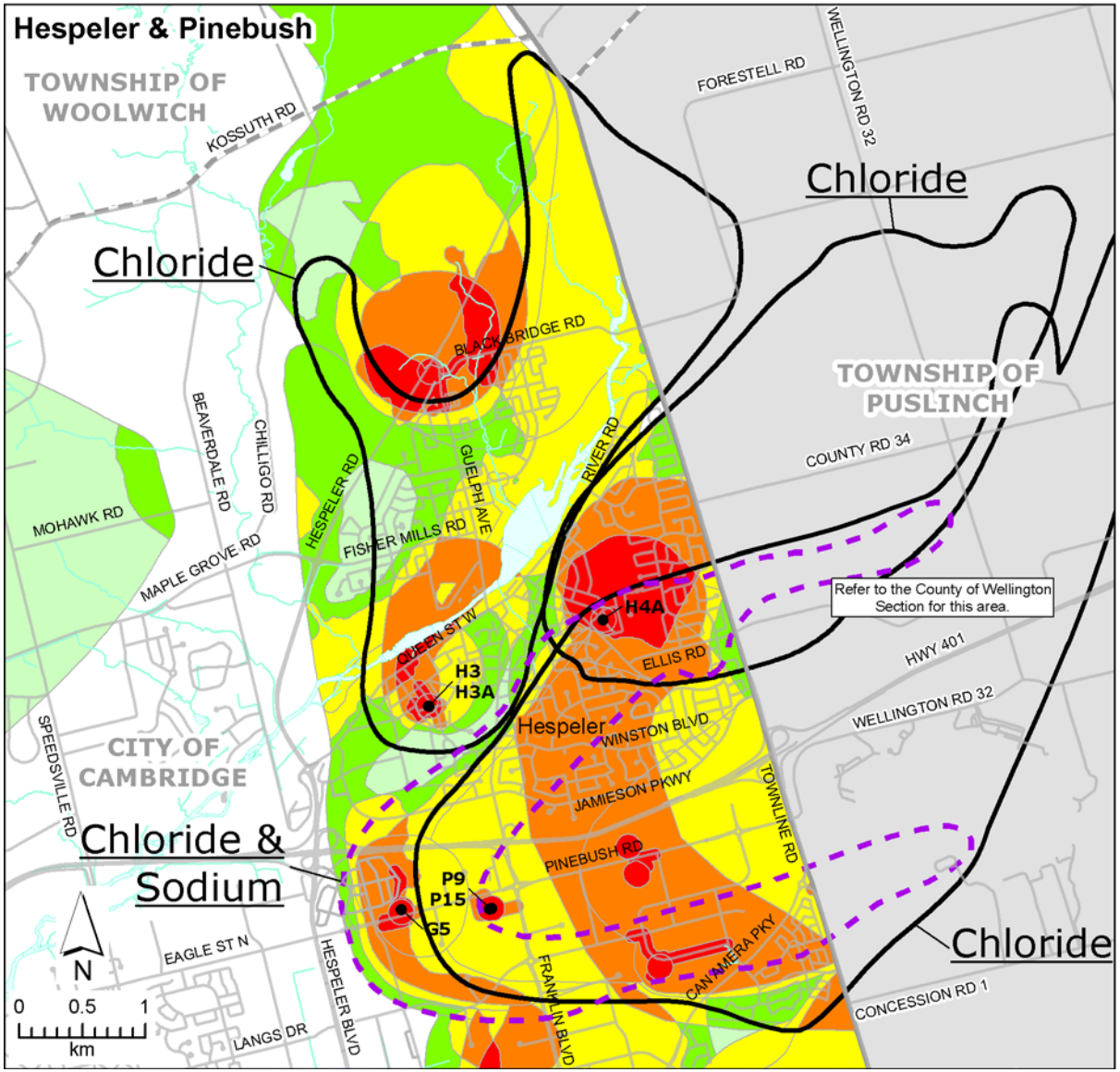
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.24 Schedule TS: Region of Waterloo Issue Contributing Areas: Hespeler & Pinebush



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

Significant Drinking Water Threat Policy Categories		Identified Issue			
		Chloride	Nitrate	Sodium	TCE
1.	Waste Disposal		Y		Y
2.	Sewage Systems	Y	Y	Y	Y
3, 4.	Agricultural Source Material		Y		
6, 7.	Non-Agricultural Source Material		Y		
8, 9.	Commercial Fertilizer		Y		
12, 13.	Road Salt	Y		Y	
14.	Storage of Snow	Y	Y	Y	
16.	DNAPLs				Y
21.	Livestock Area		Y		

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) in the Issue Contributing Area(s) shown on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.

Well with Identified Issue(s)
Roads
Minor Rivers
Lakes / Main Rivers
Region of Waterloo Boundary
Lower Tier Boundary

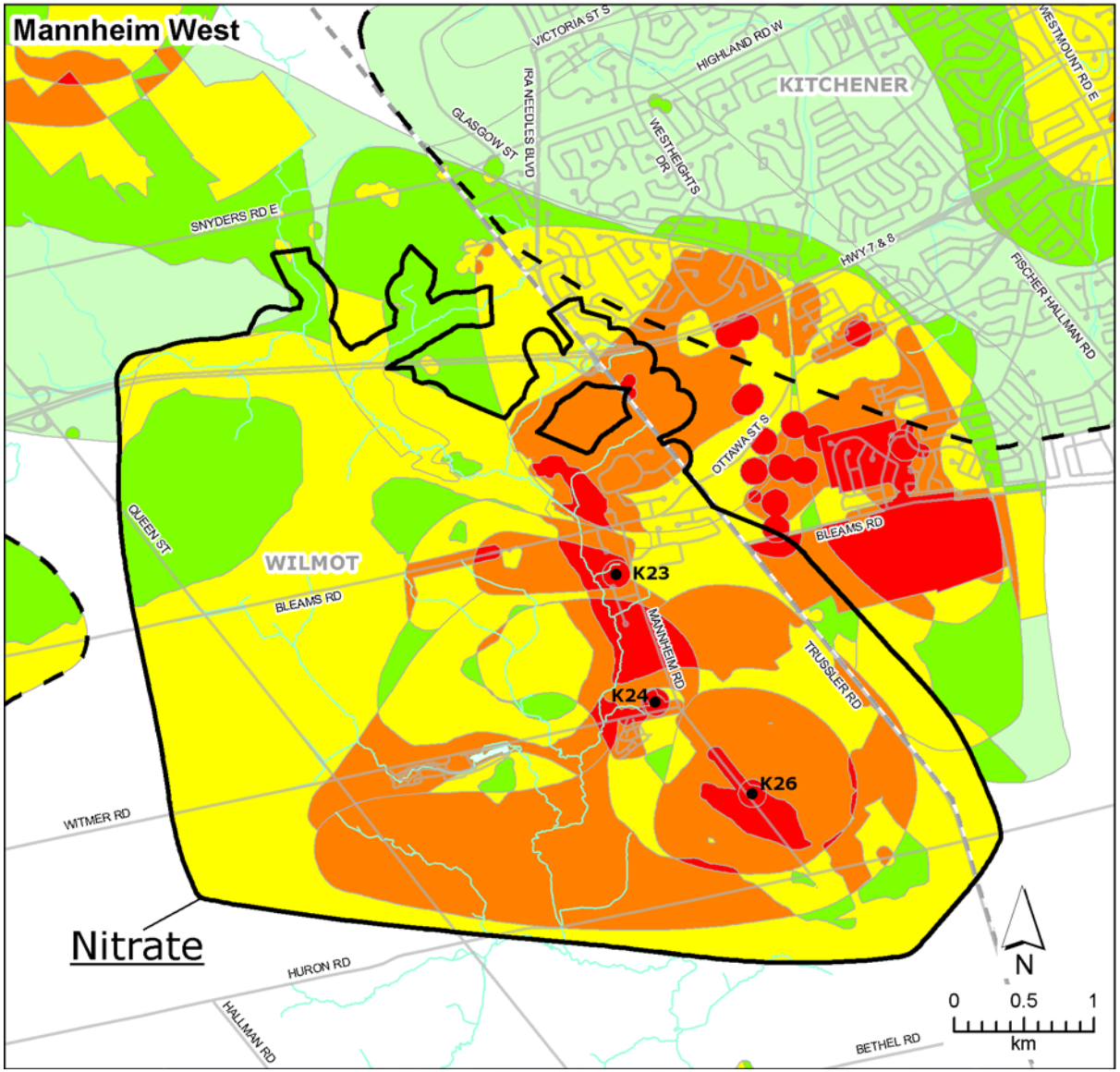
Issue Contributing Area:
Chloride (H3, H3A, H4A, P9, P15A)
Chloride & Sodium (G5)

Vulnerability Score
2 4 6 8 10

Grand River Conservation Authority

1. Updated September 25, 2020
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.25 Schedule U~~T~~: Region of Waterloo Issue Contributing Areas: Mannheim West



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

Significant Drinking Water Threat Policy Categories		Identified Issue			
		Chloride	Nitrate	Sodium	TCE
1.	Waste Disposal		Y		Y
2.	Sewage Systems	Y	Y	Y	Y
3, 4.	Agricultural Source Material		Y		
6, 7.	Non-Agricultural Source Material		Y		
8, 9.	Commercial Fertilizer		Y		
12, 13.	Road Salt	Y		Y	
14.	Storage of Snow	Y	Y	Y	
16.	DNAPLs				Y
21.	Livestock Area		Y		

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) in the Issue Contributing Area(s) shown on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.

- Well with Identified Issue(s)
- Roads
- Minor Rivers
- Lakes / Main Rivers
- Lower Tier Boundary
- Mannheim West Issue Contributing Areas
- Other Issue Contributing Areas

Vulnerability Score

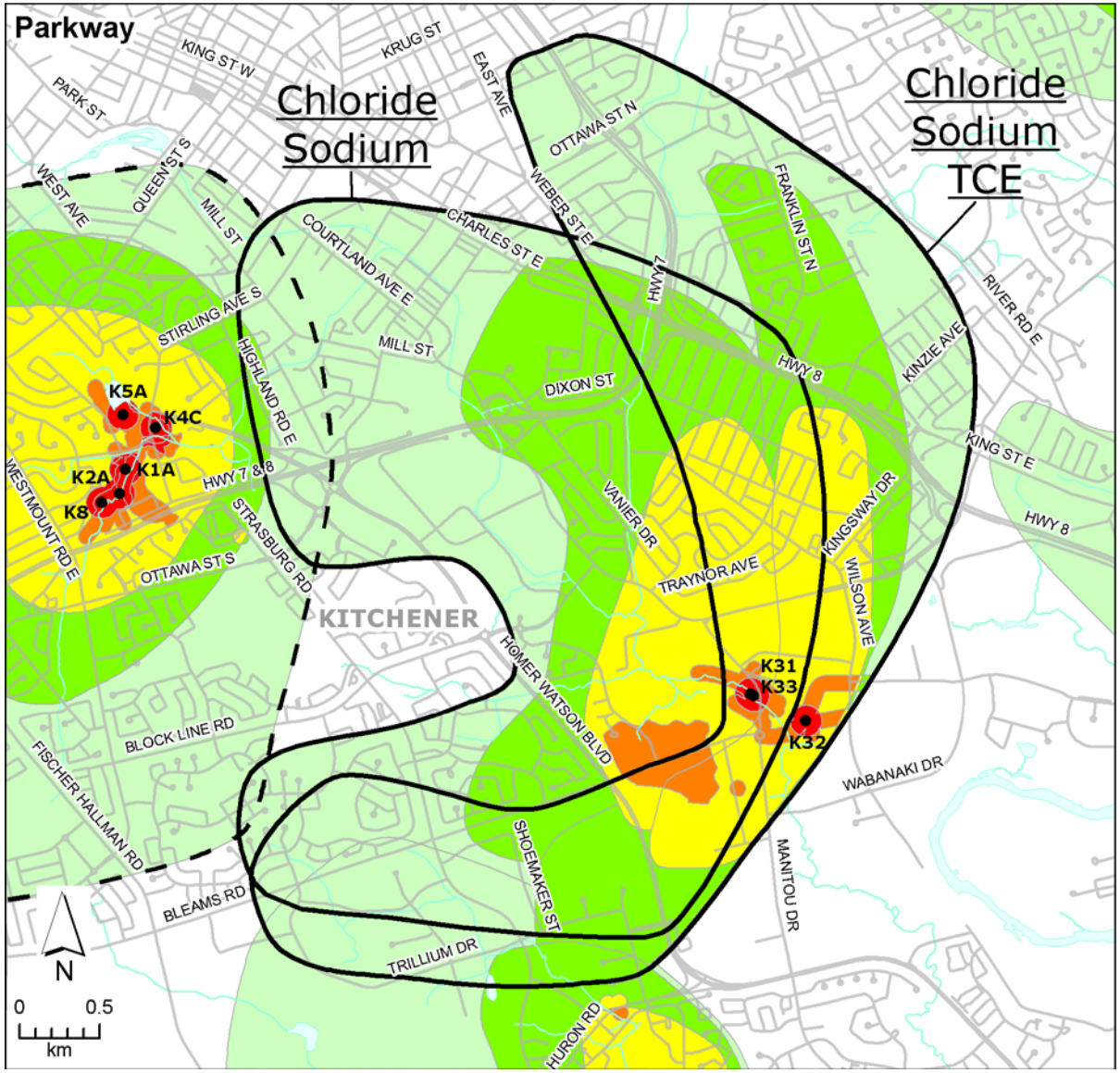
2 4 6 8 10

Issue — Associated Issue Parameter

Grand River Conservation Authority

1. Updated September 25, 2020
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.26 Schedule V~~U~~: Region of Waterloo Issue Contributing Areas: Parkway



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

Significant Drinking Water Threat Policy Categories		Identified Issue			
		Chloride	Nitrate	Sodium	TCE
1.	Waste Disposal		Y		Y
2.	Sewage Systems	Y	Y	Y	Y
3, 4.	Agricultural Source Material		Y		
6, 7.	Non-Agricultural Source Material		Y		
8, 9.	Commercial Fertilizer		Y		
12, 13.	Road Salt	Y		Y	
14.	Storage of Snow	Y	Y	Y	
16.	DNAPLs				Y
21.	Livestock Area		Y		

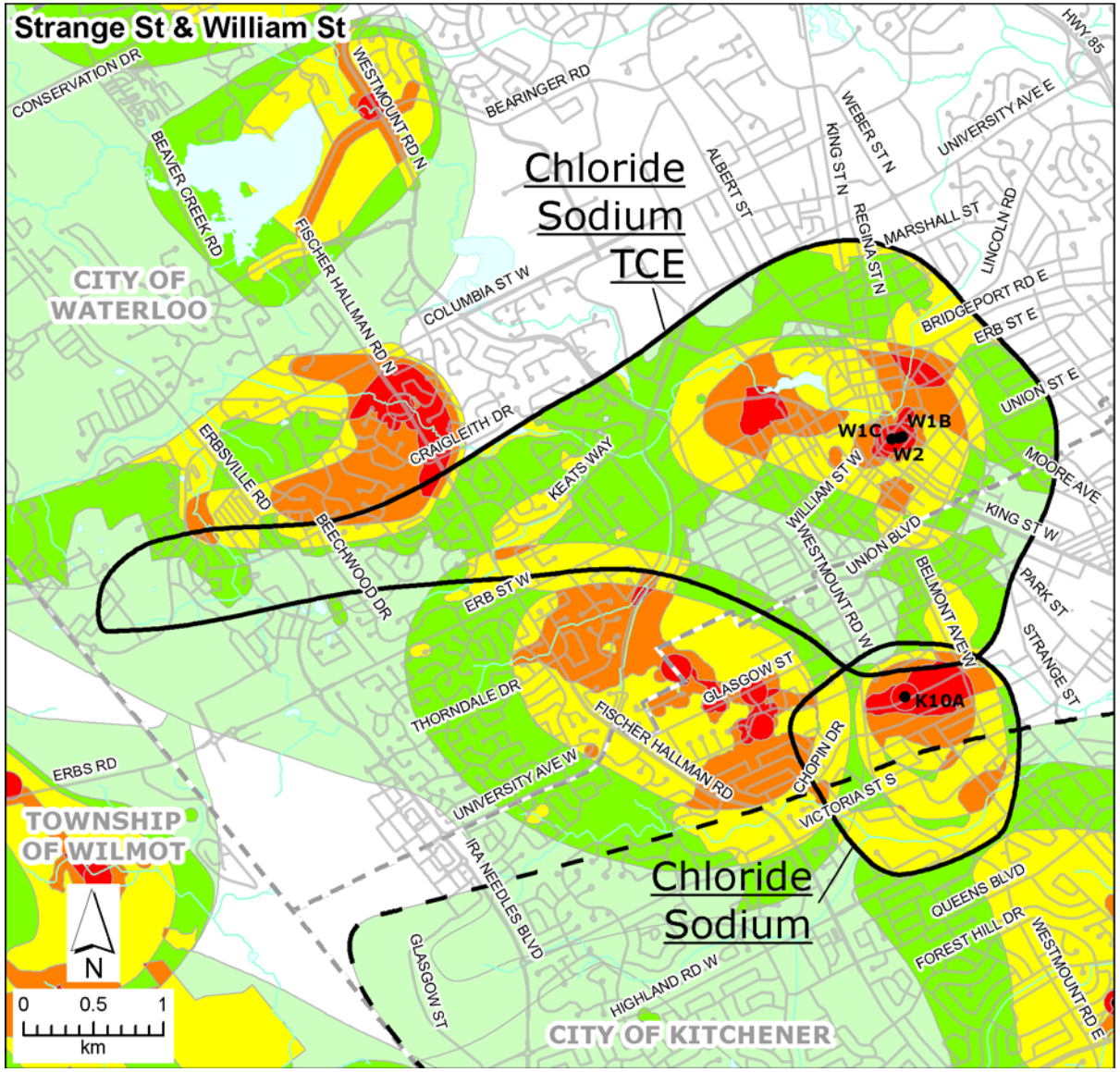
Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) in the Issue Contributing Area(s) shown on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.

Well with Identified Issue(s)
Roads
Minor Rivers
Lakes / Main Rivers
Parkway Issue Contributing Areas
Other Issue Contributing Areas
Vulnerability Score
2 4 6 8 10
Issue
Associated Issue Parameter

Grand River Conservation Authority

1. Updated July 31, 2019.
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.27 Schedule W~~V~~: Region of Waterloo Issue Contributing Areas: Strange & William St



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

Significant Drinking Water Threat Policy Categories		Identified Issue			
		Chloride	Nitrate	Sodium	TCE
1.	Waste Disposal		Y		Y
2.	Sewage Systems	Y	Y	Y	Y
3, 4.	Agricultural Source Material		Y		
6, 7.	Non-Agricultural Source Material		Y		
8, 9.	Commercial Fertilizer		Y		
12, 13.	Road Salt	Y		Y	
14.	Storage of Snow	Y	Y	Y	
16.	DNAPLs				Y
21.	Livestock Area		Y		

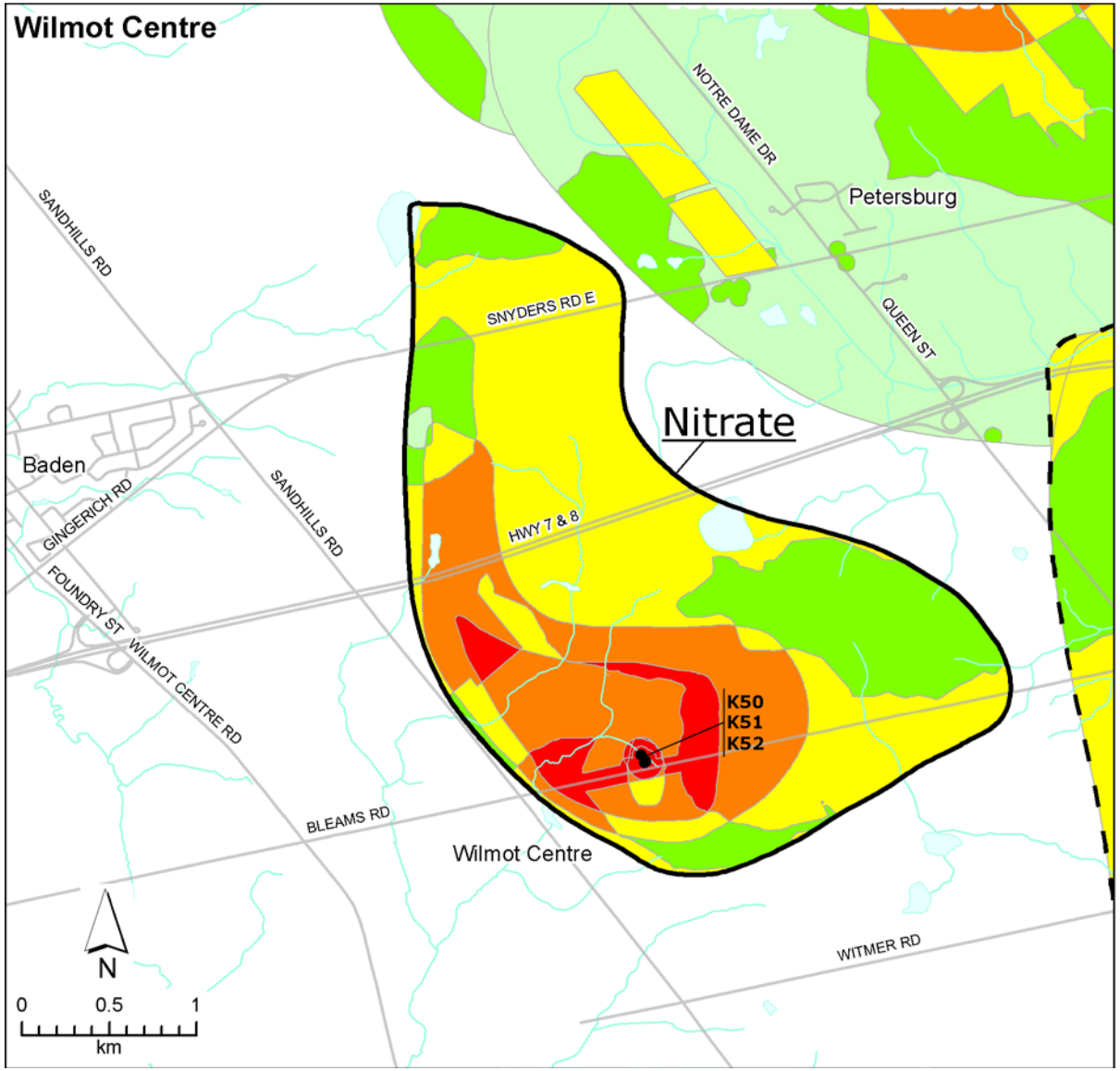
Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) in the Issue Contributing Area(s) shown on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.

Well with Identified Issue(s)
Roads
Minor Rivers
Lakes / Main Rivers
Lower Tier Boundary
Strange & William Streets Issue Contributing Areas
Other Issue Contributing Areas
Vulnerability Score
2 4 6 8 10
Issue — Associated Issue Parameter

Grand River Conservation Authority

1. Updated July 31, 2019
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.28 Schedule X~~W~~: Region of Waterloo Issue Contributing Areas: Wilmot Centre



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

Significant Drinking Water Threat Policy Categories		Identified Issue			
		Chloride	Nitrate	Sodium	TCE
1.	Waste Disposal		Y		Y
2.	Sewage Systems	Y	Y	Y	Y
3, 4.	Agricultural Source Material		Y		
6, 7.	Non-Agricultural Source Material		Y		
8, 9.	Commercial Fertilizer		Y		
12, 13.	Road Salt	Y		Y	
14.	Storage of Snow	Y	Y	Y	
16.	DNAPLs				Y
21.	Livestock Area		Y		

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) in the Issue Contributing Area(s) shown on this map. For details refer to the Drinking Water Threats Tables from the Ministry of the Environment and Climate Change, and the text of this Source Protection Plan.

Well with Identified Issue(s)
Roads
Minor Rivers
Lakes / Main Rivers
Baden & Wilmot Centre Issue Contributing Areas
Other Issue Contributing Areas
Vulnerability Score
2 4 6 8 10
Issue
Associated Issue Parameter

Grand River Conservation Authority

1. Updated July 31, 2019
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.29 Schedule Y~~X~~: Region of Waterloo Surface Water Systems: Index Map

DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

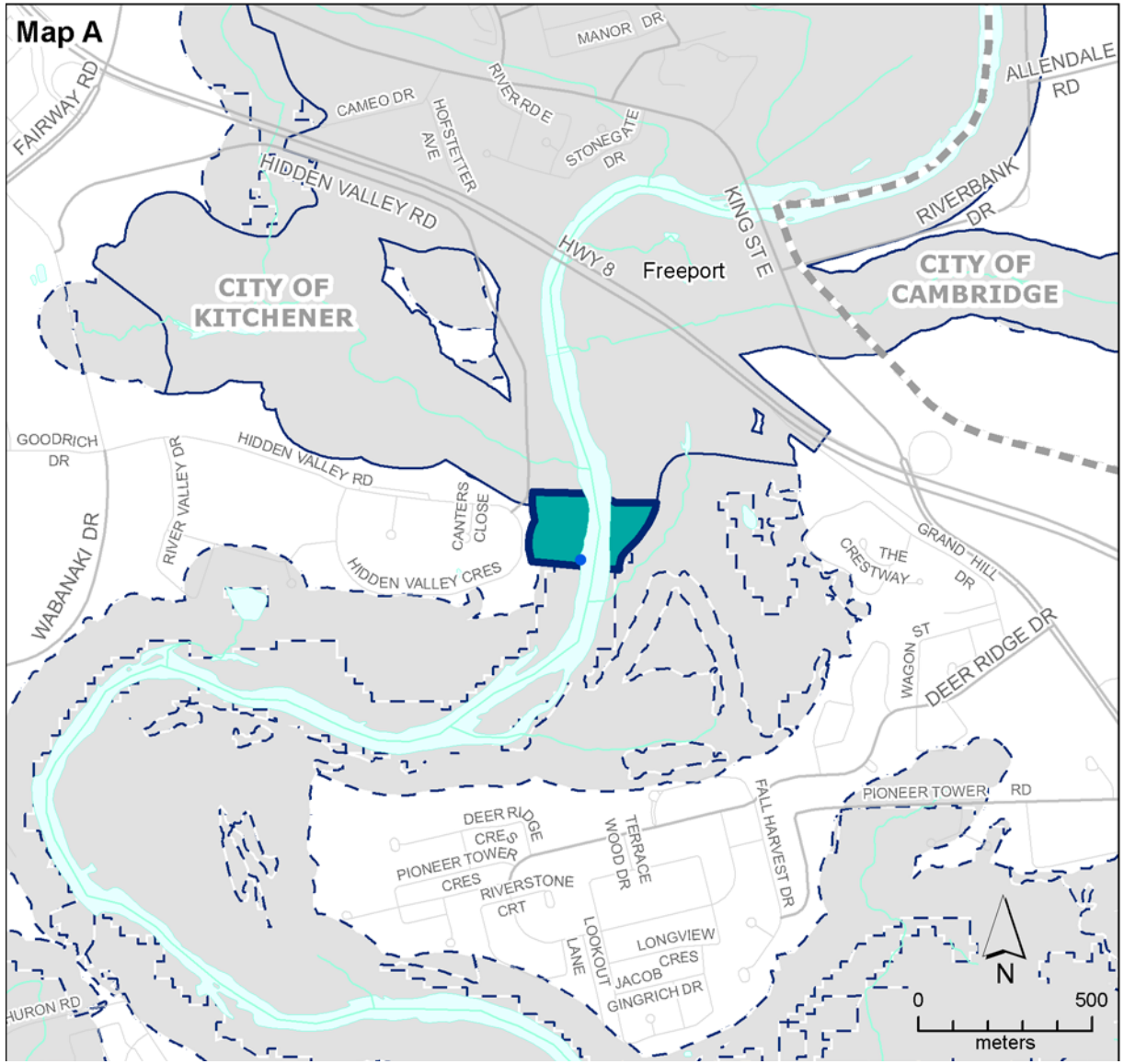
Index Map -
Intake Protection Zones

- Main Roads
- Upper / Single Tier Municipal Boundary
- Lower Tier Municipal Boundary
- Inset Map
- Vulnerability Score >= 8

Grand River Conservation Authority

1. Updated November 26, 2014
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.30 Schedule ZY: Region of Waterloo Surface Water Systems: Map A



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

	Significant Drinking Water Threat Policy Categories	Vulnerability Scores on Map 10	9	8
1.	Waste Disposal	■	■	■
2.	Sewage Systems	■	■	■
3, 4.	Agricultural Source Material	■	■	■
6, 7.	Non-Agricultural Source Material*	■	■	■
8, 9.	Commercial Fertilizer*	■	■	■
10, 11.	Pesticide	■	■	
12, 13.	Road Salt*	■	■	
14.	Storage of Snow	■	■	
15.	Fuel	■		
16.	DNAPLs	■		
17.	Organic Solvents	■		
18.	Aircraft De-icing	■	■	
21.	Livestock Area	■	■	■
22.	Oil Pipelines	■	■	■

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) within the Intake Protection Zones shown on this map. For details refer to the text of the Source Protection Plan and the Ministry of the Environment Drinking Water Threats Tables.
*Application of Commercial Fertilizer, Non-Agricultural Source Material, and Road Salt may not be a significant drinking water threat in some areas due to the % managed land, livestock density, and/or % impervious surface calculations for these areas. See the text of the plan for further details.

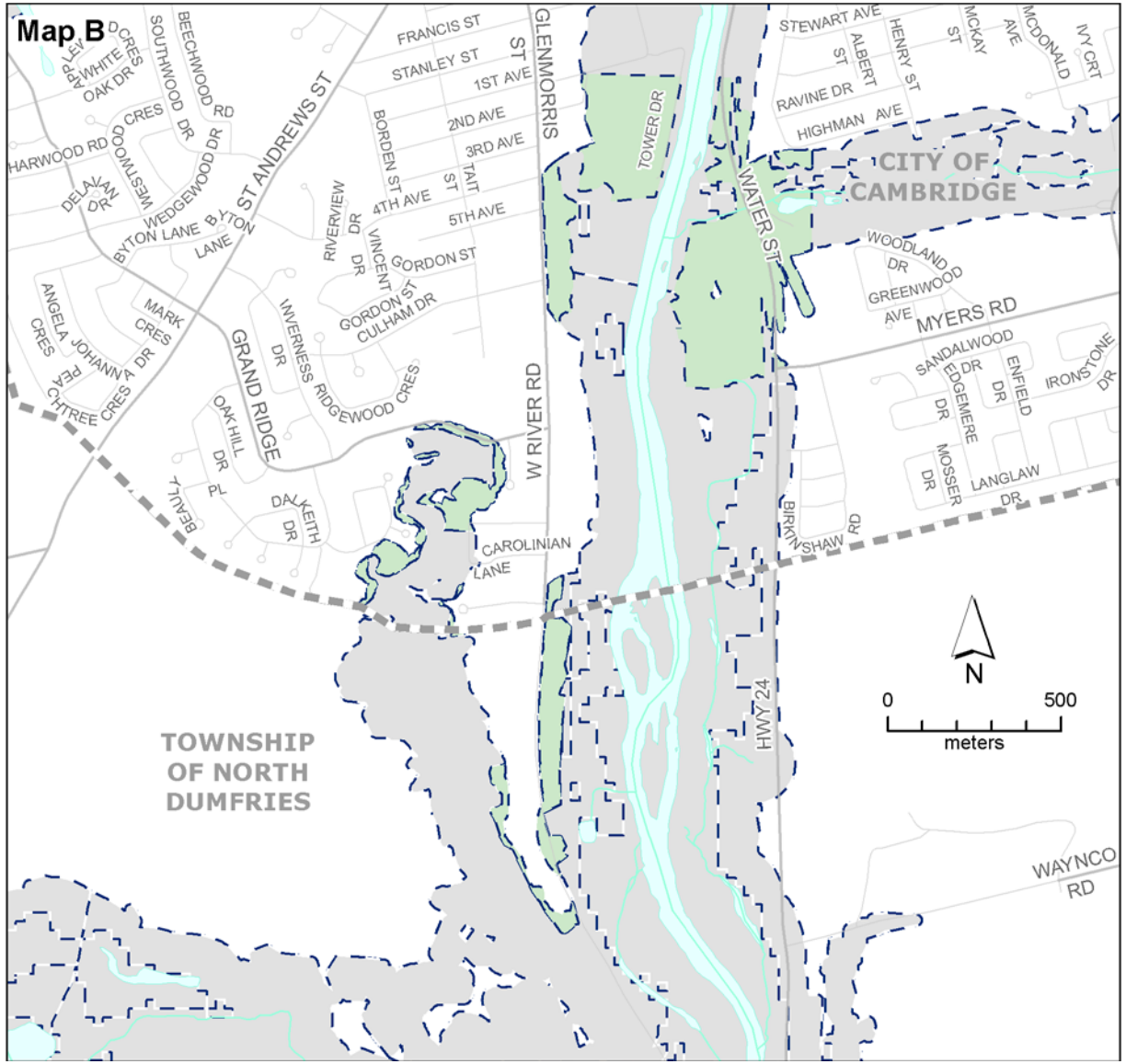
Roads
Minor Rivers
Lakes / Main Rivers
Municipal Boundary
Surface Water Intake

Intake Protection Zones:
IPZ-1
IPZ-2
IPZ-3

Grand River Conservation Authority

1. Updated November 13, 2014
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

10.31 Schedule AA~~Z~~: Region of Waterloo Surface Water Systems: Map B



DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Significant Drinking Water Threat Policy Applicability

Significant Drinking Water Threat Policy Categories		Vulnerability Scores on Map		
		10	9	8
1.	Waste Disposal			
2.	Sewage Systems			
3, 4.	Agricultural Source Material			
6, 7.	Non-Agricultural Source Material*			
8, 9.	Commercial Fertilizer*			
10, 11.	Pesticide			
12, 13.	Road Salt*			
14.	Storage of Snow			
15.	Fuel			
16.	DNAPLs			
17.	Organic Solvents			
18.	Aircraft De-icing			
21.	Livestock Area			
22.	Oil Pipelines			

Note: This table provides a summary of the activities listed in the Clean Water Act (2006) that apply as Prescribed Drinking Water Threats (PDWT) within the Intake Protection Zones shown on this map. For details refer to the text of the Source Protection Plan and the Ministry of the Environment Drinking Water Threats Tables.
*Application of Commercial Fertilizer, Non-Agricultural Source Material, and Road Salt may not be a significant drinking water threat in some areas due to the % managed land, livestock density, and/or % impervious surface calculations for these areas. See the text of the plan for further details.

Roads
Minor Rivers
Lakes / Main Rivers
Municipal Boundary

Intake Protection Zones:
IPZ-3

Grand River Conservation Authority

1. Updated October 22, 2014
2. Larger scale mapping of some map layers, including roads and vulnerability scores, is available at www.sourcewater.ca.
3. This map is for illustrative purposes only. Information contained hereon is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

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