

Report To: Halton-Hamilton Source Protection Committee
Report No.: SPC-24-03-08
From: Martin Keller, Senior Manager, Watershed Planning and Source Protection
Date: March 19, 2024
Subject: Update – Draft Policy Package – Sewage and Waste

Recommendation

THAT the Halton-Hamilton Source Protection Committee receives for information the staff report SPC-24-03-08 Draft Policy Package – Sewage and Waste

Executive Summary

Staff are continuing to analyze the implications of the updated technical framework and revised 2021 Technical Rules under the *Clean Water Act, 2006*, including revised circumstances for identifying significant drinking water threats in the Halton-Hamilton Source Protection Region (HHSPR). Draft policies for threats associated with sewage and waste were discussed at the Municipal Working Group meetings on January 17, 2024 and are presented to the Source Protection Committee (SPC) in this report for discussion and feedback.

Report Background

In December 2021, the Ministry of the Environment, Conservation and Parks (MECP) revised the Technical Rules under the *Clean Water Act, 2006*. The rules are available at: <https://www.ontario.ca/page/2021-technical-rules-under-clean-water-act>

The recently submitted and approved comprehensive HHSPR updates under Section 36 of the *Clean Water Act, 2006* were undertaken following the 2017/2018 Technical Rules. The 2021 Technical Rules will apply to subsequent Assessment Report and Source Protection Plan updates at HHSPR.

Policy Development

Staff reviewed the 2021 Technical Rules with respect to the establishment, operation or maintenance of a system that collects, stores, transmits, treats, or disposes of sewage. Identified changes are limited to adjustments to sub-threat categories and grouping of threats, and the vulnerability score of areas where a significant drinking water threat occurs. The current source protection plan utilizes prescribed instruments to address significant drinking water threats with respect to sewage. Staff propose updates to the current policies to reflect the changes in the 2021 Technical Rules, while maintaining the

intent to mitigate significant drinking water threats related to sewage through prescribed instruments.

Staff reviewed the 2021 Technical Rules with respect to the establishment, operation, or maintenance of a waste disposal site. Staff have identified the separation of Processed Organic Waste (POW) and non-agricultural source material (NASM) as a significant change to the Technical Rules. POW, when stored on or applied to non-agricultural land, or stored on (for application to) agricultural land but does not meet the category 3 land application requirements, is subject to an environmental Compliance Approval under the Environmental Protection Act. Staff are proposing to include the application, handling, and storage of POW in an existing prescribed instrument policy. The proposed policy requires the Ministry of the Environment, Conservation and Parks to ensure the POW does not become or ceases to be a significant drinking water threat. Staff are continuing discussions with municipal staff and RMOs to identify any existing POW waste sites that may need separate policy consideration, and whether POW should be included in existing Land Use Planning policies.

Proposed policies include adjustments to sub-threat categories and grouping of threats, and the vulnerability score of areas where a significant drinking water threat occurs, that were identified during review of the 2021 Technical Rules. Further changes may be made based on feedback from the Source Protection Committee.

Appendix A provides more detail regarding the changes in the 2021 Technical Rules with respect to the establishment, operation or maintenance of a system that collects, stores, transmits, treats, or disposes of sewage. The appendix also includes the proposed policies with all necessary updates included.

Appendix B provides more detail regarding the changes in the 2021 Technical Rules with respect to the establishment, operation, or maintenance of a waste disposal site. The appendix also includes the proposed policies with all necessary updates included.

Next Steps

Following feedback from Source Protection Committee members, staff will continue discussions with municipal staff and any further policy revisions will be brought forward at a future SPC meeting.

Signed & respectfully submitted:





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Appendix A

2021 Technical Rule Changes – Sewage

Director’s Technical Rules - Comparison

2017 Director's Technical Rules	2021 Director's Technical Rules		Policy Number	Notes
Sewage System or Sewage Works - Industrial Effluent Discharges	2.1	Industrial Effluent Discharges.	T-5-C PI (Future)	
Sewage System or Sewage Works - Onsite Sewage Systems	2.2	Onsite Sewage Works	T-7-C PI (Existing & Future) T-10-C LUP (Future) T-11-C LUP (Future) T-12-S Other (Future) T-13-C E&O (Existing & Future) T-14-C Other (Existing) T-15-S Other (Existing) T-16-S Incentive (Existing) T-17-C Incentive (Existing & Future) T-18-C Other (Existing & Future)	
Sewage System or Sewage Works - Onsite Sewage Systems Holding Tank				
Sewage System or Sewage Works - Discharge from a Stormwater Management Facility	2.3	Storm Water Management Facilities and Drainage Systems: Outfall from a Storm Water Management Facility or Storm Water Drainage System.	T-4-C PI (Future) T-9-C LUP (Future) Wording updates required	
	2.4	Storm Water Management Facilities and Drainage Systems: Storm Water Infiltration Facility.	T-4-C PI (Future) T-9-C LUP (Future) Wording updates required	
Sewage System or Sewage Works - Sanitary Sewers and related pipes	2.5	Wastewater Collection Facilities and Associated Parts: Sanitary Sewers.	T-6-C PI (Future) Wording updates required	
	2.7	Wastewater Collection Facilities and Associated Parts: Sewage Pumping Station or Lift Station Wet Well, a Holding Tank or a Tunnel.	T-6-C PI (Future) Wording updates required	New circumstance: Holding tank or tunnel added

Sewage System or Sewage Works - Combined Sewer discharge from a stormwater outlet to surface water	2.6	Wastewater Collection Facilities and Associated Parts: Outfall of a Combined Sewer Overflow (CSO), or a Sanitary Sewer Overflow (SSO) from a Manhole or Wet Well.	T-19-C Other (Future) Policy review and revamp may be required	SSO now explicitly captured
Sewage System or Sewage Works - Sewage treatment plant bypass discharge to surface water	2.8	Wastewater Treatment Facilities and Associated Parts.	T-8-C PI (Existing & Future) Wording updates required	
Sewage System or Sewage Works - Sewage Treatment Plant Effluent Discharges (Includes Lagoons)				
Sewage System or Sewage Works - Sewage Works Storage - Treatment or Holding Tanks				

Proposed Policies

(Highlighted text – Updates & Changes/~~Strikethrough~~ – removal)

Policy ID	T-4-C
Threat	<p>Storm Water Management Facilities and Drainage Systems:</p> <ol style="list-style-type: none"> 1. Outfall from a Storm Water Management Facility or Storm Water Drainage System 2. Storm Water Infiltration Facility Sewage system or sewage works: stormwater management facility
Policy Tool	Prescribed instrument
Policy Implementer	Ministry of the Environment, Conservation and Parks
Policy	<p>For future systems that would discharge stormwater from a stormwater management facility or drainage system or a storm water infiltration facility, where this activity would be a significant drinking water threat,</p> <ol style="list-style-type: none"> a. the Ministry of the Environment, Conservation and Parks shall ensure that the environmental compliance approvals that govern the systems include appropriate terms and conditions to ensure that the systems do not become significant drinking water threats. As part of its program to review environmental compliance approvals that are affected by source protection plans the following conditions shall be considered for inclusion: the requirement for regular maintenance, periodic removal of accumulated sediment, lining of the pond where warranted, the use of an oil/water separator, and other requirements to address site conditions. b. the Ministry of the Environment, Conservation and Parks shall document the number and locations of applications received for environmental compliance approvals for these systems and the actions taken and report this information to the Source Protection Authority by February 1 of each year with copies of any issued approvals.
Legal Effect	<p>Part a - Must conform with - legally binding. List C (Appendix C - Compliance Lists).</p> <p>(Part b is a monitoring policy)</p>
Where Policy Applies	<p>See Figures 2 to 11.</p> <ol style="list-style-type: none"> 1. WHPA-A & B – V. score 10; WHPA-E – V. score 9 & 8.18-10 2. WHPA-A & B – V. score 10; WHPA-E – V. score 9-10
When Policy Applies	Future
Notes	<p>Stormwater retention ponds are designed to provide treatment of water running off urban lands. Typically, this treatment removes sediment; however, additional contaminants that are not removed pose risks to drinking water sources. This policy uses prescribed instruments regulatory tools to manage future risks.</p>

Policy ID	T-5-C
Threat	Industrial Effluent Discharges . Sewage system or sewage works: industrial effluent discharges
Policy Tool	Prescribed instrument
Policy Implementer	Ministry of the Environment, Conservation and Parks
Policy	<p>Where the future discharge of industrial effluent to the environment would be a significant drinking water threat,</p> <ol style="list-style-type: none"> the Ministry of the Environment, Conservation and Parks shall ensure that the environmental compliance approvals that govern industrial effluent discharges include appropriate terms and conditions, to ensure that these discharges do not become significant drinking water threats. As part of its program to review environmental compliance approvals that are affected by source protection plans the following conditions shall be considered for inclusion - strict criteria for effluent quality and monitoring. the Ministry of the Environment, Conservation and Parks shall document the number and locations of applications received for environmental compliance approvals for industrial effluent discharge and the action taken on the applications and report this information to the Source Protection Authority by February 1 of each year with copies of any issued approvals.
Legal Effect	Part a - Must conform with - legally binding. List C (Appendix C - Compliance Lists). (Part b is a monitoring policy)
Where Policy Applies	See Figure 7. WHPA-A & B V. score 10, WHPA-E – V. score 9 & 8.1 8-10
When Policy Applies	Future
Notes	The discharge of industrial effluent is only a significant threat in a wellhead protection area E. Thus, this policy only applies within Carlisle WHPA-E. This policy uses prescribed instruments regulatory tools to manage future risks.

Policy ID	T-6-C
Threat	Wastewater Collection Facilities and Associated Parts: <ol style="list-style-type: none"> 1. Sanitary Sewers. Sewage system or sewage works: sanitary sewers and related pipes 2. Sewage Pumping Station or Lift Station Wet Well, a Holding Tank or a Tunnel.
Policy Tool	Prescribed instrument
Policy Implementer	Ministry of the Environment, Conservation and Parks
Policy	<p>Where the future installation of sanitary sewers, a sewage pumping station or lift station wet well or a holding tank or tunnel would and related pipes would be a significant drinking water threat,</p> <ol style="list-style-type: none"> a. the Ministry of the Environment, Conservation and Parks shall ensure that the environmental compliance approvals that govern these systems include appropriate terms and conditions to ensure that the sewers and pipes do not become significant drinking water threats. As part of its program to review environmental compliance approvals that are affected by source protection plans the following conditions shall be considered for inclusion - requirement for regular maintenance and inspection. b. the Ministry of the Environment, Conservation and Parks shall document the number and locations of applications received for environmental compliance approvals for sanitary sewers and pipes and the actions taken on the applications and report this information to the Source Protection Authority by February 1 of each year with copies of any issued approvals.
Legal Effect	Part a - Must conform with - legally binding. List C (Appendix C - Compliance Lists). (Part b is a monitoring policy)
Where Policy Applies	See Figures 2 to 11. <ol style="list-style-type: none"> 1. WHPA-A & B – V. score 10, 2. WHPA-A & B – V. score 10, WHPA-E V. score 9-10
When Policy Applies	Future

Policy ID	T-7-C
Threat	Onsite Sewage Works Sewage system or sewage works: onsite sewage systems and holding tanks
Policy Tool	Prescribed instrument
Policy Implementer	Ministry of the Environment, Conservation and Parks
Policy	<p>Where existing and potential future onsite sewage works septic systems and holding tanks regulated under the <i>Ontario Water Resources Act</i> or the <i>Environmental Protection Act</i> are or would be significant drinking water threats,</p> <ul style="list-style-type: none"> a. the Ministry of the Environment, Conservation and Parks shall ensure that environmental compliance approvals that govern these systems include appropriate terms and conditions to ensure that these systems and tanks cease to be or do not become significant drinking water threats. As part of its program to review environmental compliance approvals that are affected by source protection plans the following conditions shall be considered for inclusion - mandatory monitoring of groundwater impacts, contingencies in the event that the quality of sources of drinking water is adversely affected, regular and ongoing compliance monitoring, mandatory system and tank inspections at least every five years, upgrading of these septic systems and holding tanks to current standards, if necessary, and annual reporting to the Source Protection Authority of any monitoring and inspection programs required and their results. b. the Ministry of the Environment, Conservation and Parks shall document the number and locations of environmental compliance approvals that were issued or amended for these septic systems and holding tanks and the actions taken, and report this information to the Source Protection Authority by February 1 of each year with copies of any issued approvals.
Legal Effect	Part a - Must conform with - legally binding. List C (Appendix C - Compliance Lists). (Part b is a monitoring policy)
Where Policy Applies	See Figures 2 to 11. WHPA-A & B – V. score 10
When Policy Applies	Existing and future
Notes	Sewage works, including septic systems, with a design capacity of greater than 10,000 litres per day are regulated under section 53 of the <i>Ontario Water Resources Act, 1990 and the Environmental Protection Act</i> . This policy uses prescribed instruments regulatory tools.

Policy ID	T-8-C
Threat	Wastewater Treatment Facilities and Associated Parts Sewage system or sewage works: sewage storage – treatment or holding tanks, sewage treatment plant bypass discharge to surface water, sewage treatment plant effluent discharges (includes lagoons)
Policy Tool	Prescribed instrument
Policy Implementer	Ministry of the Environment, Conservation and Parks
Policy	<p>Where existing or future Wastewater Treatment Facilities and Associated Parts sewage treatment plants are or would be a significant drinking water threats from discharges, bypasses, or the storage of sewage,</p> <ol style="list-style-type: none"> the Ministry of the Environment, Conservation and Parks shall ensure that the approvals that govern sewage treatment plants include appropriate terms and conditions to ensure that they cease to be or do not become significant drinking water threats. As part of its program to review environmental compliance approvals that are affected by source protection plans the following conditions shall be considered for inclusion - strict criteria for effluent quality, appropriate sizing to reduce bypasses, in addition to inspections and proactive maintenance of the works to prevent leaks. the Ministry of the Environment, Conservation and Parks shall document the number and locations of environmental compliance approvals that were reviewed or issued for sewage treatment plants and the actions taken and report this information to the Source Protection Authority by February 1 of each year with copies of any issued approvals.
Legal Effect	Part a - Must conform with - legally binding. List C (Appendix C - Compliance Lists). (Part b is a monitoring policy)
Where Policy Applies	<p>See Figures 2 to 11.</p> <p>WHPA-A & B V. score 10, WHPA-E V. score 8-10</p> <ul style="list-style-type: none"> • Sewage storage – treatment or holding tanks: WHPA-A & B – V. score 10; WHPA-B & C – V. score 8; WHPA-E – V. score 9 • sewage treatment plant bypass discharge to surface water: WHPA-E – V. score 9 & 8.1 • sewage treatment plant effluent discharges (includes lagoons): WHPA-A & B – V. score 10; WHPA-E – V. score 9 & 8.1 •
When Policy Applies	Existing and future

Policy ID	T-9-C
Threat	<p>Storm Water Management Facilities and Drainage Systems:</p> <ol style="list-style-type: none"> 1. Outfall from a Storm Water Management Facility or Storm Water Drainage System 2. Storm Water Infiltration Facility Sewage system or sewage works – stormwater management facility
Policy Tool	Land use planning
Policy Implementer	Municipal planning authority
Policy	<p>In consideration of <i>Planning Act</i> applications where the future future systems that would discharge stormwater from a stormwater management facility or drainage system or a storm water infiltration facility discharge of stormwater effluent from stormwater management facilities would be a significant drinking water threat,</p> <ol style="list-style-type: none"> a. where possible, the municipal planning authority shall require the applicant to locate stormwater management facilities outside of the vulnerable area. b. the municipal planning authority shall document the number of applications reviewed for stormwater management facilities, whether the application was approved, and whether the pond was located within or outside of the area where a significant drinking water threat would occur and report this information, including the rationale for decisions made, to the Source Protection Authority by February 1 of each year.
Legal Effect	<p>Part a - Must conform with - legally binding. List A (Appendix C - Compliance Lists).</p> <p>(Part b is a monitoring policy)</p>
Where Policy Applies	<p>See Figures 2 to 11.</p> <ol style="list-style-type: none"> 1. WHPA-A & B – V. score 10; WHPA-E – V. score 8-10 2. 2. WHPA-A & B – V. score 10; WHPA-E – V. score 9-10 See Figures 2 to 11. <p>WHPA-A & B – V. score 10; WHPA-E – V. score 9 & 8.1</p>
When Policy Applies	Future
Notes	This policy requests municipalities to prohibit a land use or an associated activity, where possible, to prevent future significant threats due to stormwater management facilities from occurring.

Policy ID	T-10-C
Threat	Onsite Sewage Works Sewage system or sewage works – onsite sewage systems
Policy Tool	Land use planning
Policy Implementer	Municipal planning authority
Policy	<p>In consideration of site plan approval for properties located partially within vulnerable areas where the future establishment of septic systems onsite sewage works requiring approval under the <i>Environmental Protection Act</i> would be a significant drinking water threat,</p> <ol style="list-style-type: none"> where possible, the municipal planning authority shall require the applicants to locate the septic systems outside of the vulnerable areas to ensure they will not be significant drinking water threats. the municipal planning authority shall document the number of site plan applications reviewed that were denied, those approved with the septic systems located outside of the vulnerable areas, and those approved with the septic systems located within the vulnerable areas and report this information, including the rationale for the decisions made, to the Source Protection Authority by February 1 of each year.
Legal Effect	Part a - Must conform with - legally binding. List A (Appendix C - Compliance Lists). (Part b is a monitoring policy)
Where Policy Applies	See Figures 2 to 11. WHPA-A & B – V. score 10
When Policy Applies	Future

Policy ID	T-11-C
Threat	Onsite Sewage Works Sewage system or sewage works – onsite sewage systems
Policy Tool	Land use planning
Policy Implementer	City of Hamilton, Regional Municipality of Halton, Town of Milton
Policy	<p>Where future septic systems onsite sewage works requiring approval under the Ontario Building Code would be significant drinking water threats,</p> <ul style="list-style-type: none"> a. the Region of Halton, the Town of Milton and the City of Hamilton shall require through amendments to <i>Planning Act</i> tools that future lot sizes be sufficient to accommodate the systems. b. the municipal planning authority shall provide copies of their planning documents to the Source Protection Authority when they have been amended to conform with the policy to ensure that future lot sizes are sufficient to accommodate the required private servicing.
Legal Effect	Part a - Must conform with - legally binding. List A (Appendix C - Compliance Lists). (Part b is a monitoring policy)
Where Policy Applies	See Figures 2 to 11. WHPA-A & B – V. score 10
When Policy Applies	Future

Policy ID	T-12-S
Threat	Sewage system or sewage works – onsite sewage systems Onsite Sewage Works
Policy Tool	Other tools: Niagara Escarpment Plan
Policy Implementer	Niagara Escarpment Commission
Policy	<p>For consistency of planning documents across the Halton-Hamilton Source Protection Region where future septic systems onsite sewage works requiring approval under the Ontario Building Code would be significant drinking water threats,</p> <ul style="list-style-type: none"> a. the Niagara Escarpment Commission is requested to ensure that future lot sizes in the Niagara Escarpment Plan Area are sufficient to accommodate the required private systems. b. the Niagara Escarpment Commission is requested to provide to the Source Protection Authority a report of the actions taken to ensure that future lot sizes in the Niagara Escarpment Plan Area are sufficient to accommodate the required private septic systems.
Legal Effect	Part a - Strategic - non-legally binding. List K (Appendix C - Compliance Lists) (Part b is a monitoring policy)
Where Policy Applies	See Figures 2 to 11. WHPA-A & B – V. score 10
When Policy Applies	Future
Notes	To have consistent policies across the Source Protection Region, the Niagara Escarpment Commission is requested to amend the Niagara Escarpment Plan.

Policy ID	T-13-C
Threat	Sewage system or sewage works: onsite sewage systems and holding tanks Onsite Sewage Works
Policy Tool	Education and outreach
Policy Implementer	City of Hamilton, Regional Municipality of Halton, Town of Milton
Policy	<p>To increase awareness about best practices to protect drinking water sources for existing and future users of septic tanks and holding tanks onsite sewage works located within vulnerable areas where their use is or would be a significant drinking water threat,</p> <ol style="list-style-type: none"> the City of Hamilton and the Region of Halton shall continue their established, related education and outreach programs. In addition, within two years of the date the updated Source Protection Plan comes into effect, the City of Hamilton and the Region of Halton, in collaboration with the Halton Region and Hamilton Region Conservation Authorities, and the Town of Milton are requested to continue and broaden education and outreach programs for newly identified threats as well. The programs should inform landowners about the proper disposal of toxic chemicals, the operation and maintenance of onsite sewage works septic systems, water softener discharges, and the benefits of installing effluent filters, performing tank inspections, and having tanks pumped out regularly. the City of Hamilton and the Region of Halton shall document the nature of any new or continuing education and outreach programs established regarding septic systems, the number of persons contacted, and the location of the participants and report this information to the Source Protection Authority by February 1 of each year.
Legal Effect	Part a - Must comply with - legally binding. List E (Appendix C - Compliance Lists) (Part b is a monitoring policy)
Where Policy Applies	See Figures 2 to 11. WHPA-A & B – V. score 10
When Policy Applies	Existing and future

Policy ID	T-14-C
Threat	Onsite Sewage Works Sewage system or sewage works: onsite sewage systems
Policy Tool	Other tools: onsite sewage system maintenance inspection program
Policy Implementer	City of Hamilton, Town of Milton
Policy	<p>In support of the sewage system inspection requirements of the Ontario Building Code specific to vulnerable areas where existing onsite sewage works sewage systems are significant drinking water threats,</p> <ol style="list-style-type: none"> the Town of Milton and the City of Hamilton shall implement an on-site onsite sewage works sewage system maintenance inspection program, as required. the Town of Milton and the City of Hamilton shall document the number of onsite sewage works sewage system maintenance inspections completed, as well as the actions required, if any, and report this information to the Source Protection Authority by February 1 of each year.
Legal Effect	<p>Part a - Must comply with - legally binding. List E (Appendix C - Compliance Lists)</p> <p>(Part b is a monitoring policy)</p>
Where Policy Applies	<p>See Figures 2 to 11.</p> <p>WHPA-A & B – V. score 10</p>
When Policy Applies	Existing
Notes	This policy considers the Ontario Building Code which requires municipalities to establish programs to inspect on-site sewage systems located in vulnerable areas where such sewage systems are significant threats.

Policy ID	T-15-S
Threat	Onsite Sewage Works Sewage system or sewage works: onsite sewage systems and holding tanks
Policy Tool	Other tools: decommission septic systems and holding tanks
Policy Implementer	Part a – landowners Part b - City of Hamilton, Regional Municipality of Halton
Policy	Where septic systems and holding tanks onsite sewage works are used within municipal service areas and where their use is a significant drinking water threat, <ul style="list-style-type: none"> a. landowners are requested to decommission existing septic systems and holding tanks and connect to municipal onsite sewage works where municipal services are provided, connections are permitted, and where municipal servicing capacity is available. b. the City of Hamilton and the Region of Halton shall document the number and locations of new connections to municipal sewage works for properties formerly using septic systems and holding tanks that were significant drinking water threats and report this information to the Source Protection Authority by February 1 of each year.
Legal Effect	Part a - Strategic - non-legally binding. List K (Appendix C - Compliance Lists) (Part b is a monitoring policy)
Where Policy Applies	See Figures 2 to 11. WHPA-A & B – V. score 10
When Policy Applies	Existing
Notes	Septic systems and holding tanks that pose significant drinking water threats and exist within municipal service areas should be decommissioned, and this policy requests landowners to do so. Municipal sewage works are considered to be more protective of the sources of drinking water.

Policy ID	T-16-S
Threat	Onsite Sewage Works Sewage system or sewage works: onsite sewage systems and holding tanks
Policy Tool	Incentives
Policy Implementer	Ministry of the Environment, Conservation and Parks
Policy	<p>To assist landowners in reducing the risks to drinking water sources where existing septic systems and holding tanks onsite sewage works are significant threats,</p> <ul style="list-style-type: none"> a. the Ministry of the Environment, Conservation and Parks is requested to provide ongoing funding through the Ontario Drinking Water Stewardship Program or a similar program for septic system upgrades and replacements, holding tank replacements with septic systems, decommissioning of unused systems, and for connection to municipal onsite sewage works. b. if funding is provided by the Ministry of the Environment, Conservation and Parks or municipalities, the Halton Region and Hamilton Region Conservation Authorities shall implement the incentive program to reduce the risk of septic system and holding tank drinking water threats. c. by February 1 of each year, the Halton Region and Hamilton Region Conservation Authorities shall advise the Source Protection Authority of the amount of funding received from provincially funded programs for septic system and holding tank work and connection to municipal sewage works, as well as the number of projects completed in the previous year.
Legal Effect	<p>Part a - Strategic - non-legally binding. List K (Appendix C - Compliance Lists);</p> <p>Part b - Must comply with - legally binding. List E (Appendix C - Compliance Lists)</p> <p>(Part c is a monitoring policy)</p>
Where Policy Applies	<p>See Figures 2 to 11.</p> <p>WHPA-A & B – V. score 10</p>
When Policy Applies	Existing
Notes	The Ontario Drinking Water Stewardship Program was established by the province of Ontario to assist stakeholders in reducing risks to drinking water sources. A continuation of this program will benefit the communities in the Halton-Hamilton Region.

Policy ID	T-17-C
Threat	Onsite Sewage Works Sewage system or sewage works: onsite sewage systems
Policy Tool	Incentives
Policy Implementer	City of Hamilton, Regional Municipality of Halton, Town of Milton
Policy	<p>To assist landowners with improvements required under the onsite sewage systems works maintenance inspection program implemented where sewage systems are significant threats and in accordance with the Ontario Building Code,</p> <ul style="list-style-type: none"> a. the City of Hamilton, the Region of Halton, and the Town of Milton shall consider the creation of a financial assistance program. It is recommended that this program be designed in a manner that allows the work to be completed as required, and the landowner to repay the cost over time. b. the City of Hamilton, the Region of Halton, and the Town of Milton shall document their efforts and the results regarding the creation of a municipal financing program to assist landowners and report this information and the number of participants to the Source Protection Authority by February 1 of each year.
Legal Effect	<p>Part a - Must comply with - legally binding. List E (Appendix C - Compliance Lists)</p> <p>(Part b is a monitoring policy)</p>
Where Policy Applies	<p>See Figures 2 to 11.</p> <p>WHPA-A & B – V. score 10</p>
When Policy Applies	Existing and future
Notes	Upgrading failing systems or those not constructed to current standards will improve the effectiveness of sewage treatment. Assistance to get the work completed quickly will benefit the community.

Policy ID	T-18-C
Threat	Onsite Sewage Works Sewage system or sewage works: onsite sewage systems
Policy Tool	Other tools: consideration for connections to municipal wastewater services
Policy Implementer	Municipalities responsible for wastewater services (City of Hamilton, Regional Municipality of Halton)
Policy	<p>Where existing and future septic systems onsite sewage works requiring approval under the <i>Ontario Water Resources Act</i> or the <i>Environmental Protection Act</i> are or would be significant drinking water threats,</p> <ul style="list-style-type: none"> a. the municipality responsible for wastewater services may consider connections to municipal wastewater services for rural properties where the septic systems have failed and where all other mitigation measures have been explored (including the replacement of the systems and/or installation of advanced private treatment facilities) to the satisfaction of the municipality and found unsuitable, or where the municipality considers connection to municipal wastewater services for future development to be most appropriate, and where the connections are permitted by provincial and municipal planning policy. b. by February 1 of each year, the municipality responsible for wastewater services shall report to the Source Protection Authority the number of any connections made to the municipal wastewater system in the previous year due to the failure of a septic system.
Legal Effect	Part a - Must comply with - legally binding. List E (Appendix C - Compliance Lists) (Part b is a monitoring policy)
Where Policy Applies	See Figures 2 to 11. WHPA-A & B – V. score 10
When Policy Applies	Existing and future

Policy ID	T-19-C
Threat	Wastewater Treatment Facilities and Associated Parts Sewage system or sewage works – sewage treatment plant bypass discharge to surface water
Policy Tool	Other tools: address connections of stormwater sources to sanitary sewers
Policy Implementer	City of Hamilton, Regional Municipality of Halton, Town of Oakville, City of Burlington
Policy	<p>Where potential future sewage treatment plant bypasses wastewater treatment facilities and associated parts would be significant drinking water threats,</p> <ul style="list-style-type: none"> a. the municipalities responsible for stormwater systems are requested to implement programs which address connections of stormwater sources to sanitary sewers in order to reduce surges in volumes to sewage treatment plants during wet weather. b. by February 1 of each year, the municipalities responsible for stormwater systems shall report to the Source Protection Authority whether a program to address connections of stormwater sources to sanitary sewers has been implemented, their actions taken, and the results of those actions. c. by February 1 of each year, the municipalities responsible for wastewater services shall report to the Source Protection Authority the number of bypasses of the wastewater treatment plant that occurred in the previous year due to plant capacity limitations.
Legal Effect	Part a - Must comply with - legally binding. List E (Appendix C - Compliance Lists) (Parts b and c are monitoring policies)
Where Policy Applies	See Figures 2 to 11. WHPA-A & B – V. score 10 , WHPA-E – V. score 8-10 9 & 8.1
When Policy Applies	Future

Appendix B

2021 Technical Rule Changes – Waste

Director’s Technical Rules – Comparison

2017 Director’s Technical Rules		2021 Director’s Technical Rules		Policy Number	Notes
Waste	Application of Hauled Sewage to Land	1.1	Disposal of Hauled Sewage to Land.	T-1-C PI (Future) T-3-C LUP (Future)	
NASM	Application of Non-Agricultural Source Material (NASM) or Biosolids to Land	1.2	Application of Processed Organic Waste to Land.	New Policy required	POW is now defined separate from NASM*
Waste	Waste Disposal Site - Landfarming of Petroleum Refining Waste	1.3	Landfarming of Petroleum Refining Waste.	T-1-C PI (Future) T-3-C LUP (Future)	
	Waste Disposal Site - Landfilling (Hazardous Waste)	1.4	Landfilling (Hazardous Waste or Liquid Industrial Waste).	T-1-C PI (Future) T-3-C LUP (Future)	
	Waste Disposal Site - Landfilling (Municipal Waste)	1.5	Landfilling (Municipal Waste).	T-1-C PI (Future) T-3-C LUP (Future)	
	Waste Disposal Site - Landfilling (Solid Non Hazardous Industrial or Commercial)				
	Waste Disposal Site - Liquid Industrial Waste Injection into a well	1.6	Liquid Industrial Waste Injection into a well.	T-1-C PI (Future) T-3-C LUP (Future)	
	Waste Disposal Site - PCB Waste Storage	1.7	PCB Waste Storage.	T-1-C PI (Future) T-3-C LUP (Future)	
		1.8	Storage of Hauled Sewage (at a site not where it is produced)	T-1-C PI (Future) T-3-C LUP (Future) Add sub threat to policies	New waste threat sub-category and does not include onsite sewage system holding tanks
NASM	Storage of Non-Agricultural Source Material (NASM)	1.9	Storage of Processed Organic Waste or Waste Biomass.	T-1-C PI (Future) T-3-C LUP (Future) Add sub threat to policies	POW is now defined separate from NASM*
Waste	Waste Disposal Site - Storage of Hazardous Waste At Disposal Sites	1.10	Transfer/Processing Sites approved to receive Hazardous Waste or Liquid Industrial Waste.	T-1-C PI (Future) T-3-C LUP (Future)	

	Waste Disposal Site - Storage of wastes described in clauses (p), (q), (r), (s), (t) or (u) of the definition of hazardous waste. Must be at a licensed site.	1.11	Transfer/Processing Site approved to receive only Municipal Waste under Part V of the Environmental Protection Act	T-1-C PI (Future) T-3-C LUP (Future)	
		1.12	Storage of Subject Waste at a Waste Generation Facility: site requires generator registration under Section 3 of O. Reg. 347.	T-1-C PI (Future) T-3-C LUP (Future) Add sub threat to policies	New waste threat sub-category
		1.13	Storage of Waste at a Waste Generation Facility: site that is exempt or excluded from generator registration requirements.	T-1-C PI (Future) T-3-C LUP (Future) Add sub threat to policies	New waste threat sub-category
	Storage, Treatment And Discharge Of Tailings From Mines	1.14	Storage, Treatment and Discharge of Tailings from Mines.	T-3-C LUP (Future)	

*Processed Organic Waste, when stored on or applied to non-agricultural land **or** stored on (for application to) agricultural land but does not meet the category 3 land application requirements, is subject to ECA under the Environmental Protection Act

Proposed Policies

(Highlighted text – Updates & Changes/~~Strikethrough~~ – removal)

Policy ID	T-1-C
Threat	<p>The establishment, operation, or maintenance of a waste disposal site within the meaning of Part V of the Environmental Protection Act</p> <ol style="list-style-type: none"> 1.1 Disposal of Hauled Sewage to Land 1.2 Application of Processed Organic Waste to Land 1.3 Landfarming of Petroleum Refining Waste 1.4 Landfilling (Hazardous Waste of Liquid Industrial Waste) 1.5 Landfilling (Municipal Waste) 1.6 Liquid Industrial Waste Injection into a well 1.7 PCB Waste Storage 1.8 Storage of Hauled Sewage 1.9 Storage of Processed Organic Waste or Waste Biomass 1.10 Transfer/Processing Sites approved to receive Hazardous Waste or Liquid Industrial Waste 1.11 Transfer/Processing Sites approved to receive only Municipal Waste under Part V of the Environmental Protection Act 1.12 Storage of Subject Waste at a Waste Generation Facility: site requires generator registration under Section 3 of O. Reg 347 1.13 Storage of Waste at a Waste Generation Facility: site that is exempt or excluded from generator registration requirements. 1.14 Storage, Treatment and Discharge of Tailings from Mines
Policy Tool	Prescribed instrument
Policy Implementer	Ministry of the Environment, Conservation and Parks
Policy	<p>Where the establishment of a waste disposal site, as defined within the meaning of Part V of the <i>Environmental Protection Act</i>, is or would be a significant drinking water threat, the Ministry of the Environment, Conservation and Parks shall</p> <ol style="list-style-type: none"> a. ensure the Environmental Compliance Approval contains terms and conditions that ensure an existing waste disposal site is no longer a significant drinking water threat, b. prohibit any future establishment of a waste disposal site, c. document their actions taken to implement this policy and report this information to the Source Protection Authority by February 1 of each year.
Legal Effect	<p>Part a and b - Must conform with - legally binding. List C (Appendix C - Compliance Lists).</p> <p>(Part c is a monitoring policy)</p>

Where Policy Applies	<p>See Figures 2 to 11.</p> <p>1.1 WHPA-A & B V. score 10; WHPA-E V. score 8-10</p> <p>1.2 WHPA-A & B V. score 10; WHPA-E V. score 8-10</p> <p>1.3 WHPA-A & B V. score 10; WHPA-E V. score 9-10</p> <p>1.4 WHPA-A & B V. score 8-10; WHPA-E V. score 9-10</p> <p>1.5 WHPA-A & B V. score 8-10; WHPA-E V. score 9-10</p> <p>1.6 WHPA-A & B V. score 8-10</p> <p>1.7 WHPA-A & B V. score 10</p> <p>1.8 WHPA-A & B V. score 10; WHPA-E V. score 8-10</p> <p>1.9 WHPA-A & B V. score 10; WHPA-E V. score 8-10</p> <p>1.10 WHPA-A & B V. score 8-10; WHPA-E V. score 8-10</p> <p>1.11 WHPA-A & B V. score 8-10; WHPA-E V. score 9-10</p> <p>1.12 WHPA-A & B V. score 10</p> <p>1.13 WHPA-A & B V. score 10</p> <p>1.14 WHPA-A & B V. score 10; WHPA-E V. score 9-10</p>
When Policy Applies	Existing/Future
Notes	This policy prohibits future and manages existing waste disposal sites that pose a significant threat.

Policy ID	T-2-C
Threat	Transfer/Processing Sites approved to receive Hazardous Waste or Liquid Industrial Waste. Waste disposal site: storage of hazardous waste
Policy Tool	Education and outreach
Policy Implementer	City of Hamilton, Regional Municipality of Halton
Policy	<p>To raise awareness about appropriate disposal of hazardous materials at waste disposal sites where they would be significant drinking water threats,</p> <ul style="list-style-type: none"> a. the City of Hamilton and the Region of Halton shall continue their established education and outreach programs on hazardous waste disposal and reduction of waste. In addition, within two years of the date the updated Source Protection Plan comes into effect, they shall include messaging for newly identified threats consistent with source water protection and the diligent use and disposal of substances identified in the Ministry of the Environment, Conservation and Parks most recent Tables of Drinking Water Threats, such as organic solvents, pesticides, and dense non-aqueous phase liquids. b. the City of Hamilton and the Region of Halton shall document the efforts undertaken through education and outreach programs regarding hazardous waste disposal and reduction of waste and report this information to the Source Protection Authority by February 1 of each year.
Legal Effect	Part a - Must comply with - legally binding. List E (Appendix C - Compliance Lists). (Part b is a monitoring policy)
Where Policy Applies	See Figures 2 to 11. 1.15 WHPA-A & B V. score 8-10; WHPA-E V. score 8-10 WHPA-A & B V. score 10; WHPA-E V. score 9
When Policy Applies	Existing and future

Policy ID	T-3-C
Threat	<p>The establishment, operation, or maintenance of a waste disposal site within the meaning of Part V of the Environmental Protection Act</p> <ul style="list-style-type: none"> 1.1 Disposal of Hauled Sewage to Land 1.2 Application of Processed Organic Waste to Land 1.3 Landfarming of Petroleum Refining Waste 1.4 Landfilling (Hazardous Waste or Liquid Industrial Waste) 1.5 Landfilling (Municipal Waste) 1.6 Liquid Industrial Waste Injection into a well 1.7 PCB Waste Storage 1.8 Storage of Hauled Sewage 1.9 Storage of Processed Organic Waste or Waste Biomass 1.10 Transfer/Processing Sites approved to receive Hazardous Waste or Liquid Industrial Waste 1.11 Transfer/Processing Sites approved to receive only Municipal Waste under Part V of the Environmental Protection Act 1.12 Storage of Subject Waste at a Waste Generation Facility: site requires generator registration under Section 3 of O. Reg 347 1.13 Storage of Waste at a Waste Generation Facility: site that is exempt or excluded from generator registration requirements. <p>Storage, Treatment and Discharge of Tailings from Mines</p>
Policy Tool	Land use planning, Clean Water Act Part IV – prohibition and risk management plan
Policy Implementer	City of Hamilton, Regional Municipality of Halton, Risk Management Official

Policy	<p>Where the future establishment of waste disposal sites within the meaning of Part V of the <i>Environmental Protection Act</i> would be a significant drinking water threat,</p> <ul style="list-style-type: none"> a. the City of Hamilton shall prohibit through amendments to <i>Planning Act</i> tools the establishment of waste disposal sites with the following specific activities occurring - application of untreated septage to land; storage, treatment and discharge of tailings from mines; landfarming of petroleum refining waste; landfilling of hazardous waste; landfilling of municipal waste; landfilling of solid, non-hazardous, industrial or commercial waste; injection of liquid waste into a well; polychlorinated biphenyls (PCB) waste storage; and storage of hazardous waste. b. the City of Hamilton shall provide copies of their planning documents to the Source Protection Authority when they have been amended to conform with the policy to prohibit the establishment of waste disposal sites. c. the risk management official for the Region of Halton shall screen all building permit and <i>Planning Act</i> applications in accordance with policy G-2 for waste disposal site activities exempt from Environmental Compliance Approvals under Ontario Regulation 347 and prohibit these activities from occurring to ensure they never become significant threats. d. the risk management official for the Region of Halton shall document in his/her annual report, in accordance with Section 65 of Ontario Regulation 287/07, action taken regarding prohibition of waste disposal sites and submit this report to the Source Protection Authority by February 1 of each year.
Legal Effect	<p>Part a – Must conform with - legally binding. List A (Appendix C - Compliance Lists).</p> <p>Part c – Must conform with - legally binding. List I and List G (Parts b and d are monitoring policies)</p>
Where Policy Applies	<p>See Figures 2 to 11.</p> <ul style="list-style-type: none"> 1.1 WHPA-A & B V. score 10; WHPA-E V. score 8-10 1.2 WHPA-A & B V. score 10; WHPA-E V. score 8-10 1.3 WHPA-A & B V. score 10; WHPA-E V. score 9-10 1.4 WHPA-A & B V. score 8-10; WHPA-E V. score 9-10 1.5 WHPA-A & B V. score 8-10; WHPA-E V. score 9-10 1.6 WHPA-A & B V. score 8-10 1.7 WHPA-A & B V. score 10

	<p>1.8 WHPA-A & B V. score 10; WHPA-E V. score 8-10</p> <p>1.9 WHPA-A & B V. score 10; WHPA-E V. score 8-10</p> <p>1.10 WHPA-A & B V. score 8-10; WHPA-E V. score 8-10</p> <p>1.11 WHPA-A & B V. score 8-10; WHPA-E V. score 9-10</p> <p>1.12 WHPA-A & B V. score 10</p> <p>1.13 WHPA-A & B V. score 10</p> <p>WHPA-A & B V. score 10; WHPA-E V. score 9-10 See Figures 2 to 11.</p> <ul style="list-style-type: none"> • Application of hauled sewage (untreated septage) to land: WHPA-A & B V. score 10; WHPA-E V. score 9 & 8.1.
	<ul style="list-style-type: none"> • WHPA-A & B V. score 10; WHPA-E V. score 8-10 Storage, treatment and discharge of tailings from mines; landfarming of petroleum refining waste; landfilling of hazardous waste: WHPA-A & B V. score 10; WHPA-E V. score 9. • Landfilling of municipal waste; landfilling of solid, non-hazardous, industrial or commercial waste: WHPA-A & B V. score 10; WHPA-B & C V. score 8; WHPA-E V. score 9. • Injection of liquid waste into a well: WHPA-A & B V. score 10; WHPA-B & C V. score 8. • Polychlorinated biphenyls (PCB) waste storage: WHPA-A & B V. score 10. <p>Storage of hazardous waste: WHPA-A & B V. score 10; WHPA-E V. score 9.</p>
When Policy Applies	Future
Notes	This policy uses regulatory tools to prevent the future establishment of waste disposal sites where they could be significant drinking water threats.