

Appendix B - Drinking Water Threat Circumstances

To Find Policies that Apply to a **Specific Activity**:

1. Refer to Section 3 of the Plan which organizes policies by threat activity
2. Use this appendix for additional details about where (vulnerable area and score) and under what circumstances (nature of the activity) each policy applies.

Prescribed Drinking Water Threat	Threat Level		Subcategory	Vulnerable Area and Vulnerability Score	Summary of Circumstances Refer to the official "Provincial Tables of Circumstances" for a complete listing of circumstances web link: http://www.ene.gov.on.ca/environment/en/legislation/clean_water_act/STDPROD_081301.html This table is provided as a guide. Verification of relevant circumstance should be done using the 'Provincial Tables of Circumstances'
	Significant	Moderate			
The establishment, operation or maintenance of a waste disposal site within the meaning of Part V, of the <i>Environmental Protection Act</i>	Significant	Moderate	Application of Untreated Septage to Land	WHPA 10 IPZ 10, 9, 8, 8.1	Land application of hauled sewage in any quantity.
			Storage, Treatment and Discharge of Tailings from Mines	WHPA 10 IPZ 10, 9	Depends on the type of storage (e.g., pit or impoundment structure at the surface) as well as National Pollution Release Inventory (NPRI) reporting requirements. See 'Detailed Circumstances for Waste' at the end of this table for more information.
			Landfarming of Petroleum Refining Waste	WHPA 10 IPZ 10, 9	Depends on the size of the land disposal area in hectares. See 'Detailed Circumstances for Waste' at the end of this table for more information.
			Liquid Industrial Waste Injection into a Well	WHPA 10, 8	Depends on the combined rate of discharge of the wells in cubic metres per year. See 'Detailed Circumstances for Waste' at the end of this table for more information.
			PCB Waste Storage	WHPA 10 IPZ 10	Depends on above or below grade, outdoor area, not in a container. See 'Detailed Circumstances for Waste' at the end of this table for more information.
			Landfilling (Hazardous Waste)	WHPA 10 IPZ 10 or 9	Depends on the size of the fill area in hectares. See 'Detailed Circumstances for Waste' at the end of this table for more information.
			Landfilling (Municipal Waste)	WHPA 10 or 8 IPZ 10 or 9	Depends on the size of the fill area in hectares. See 'Detailed Circumstances for Waste' at the end of this table for more information.
			Landfilling (Solid Non Hazardous Industrial or Commercial)	WHPA 10 or 8 IPZ 10 or 9	Depends on the size of the fill area in hectares. See 'Detailed Circumstances for Waste' at the end of this table for more information.
			Storage of Hazardous Waste at Disposal Sites	WHPA 10 IPZ 10 or 9	Depends on the location of the storage (at or above grade, below or partially below grade). See 'Detailed Circumstances for Waste' at the end of this table for more information.
			Storage of Wastes described in clauses...of the definition of hazardous waste	WHPA 10 IPZ 10	Depends on the location of the storage (at or above grade, below or partially below grade). See 'Detailed Circumstances for Waste' at the end of this table for more information.
	Moderate	Low	Landfilling (Municipal Waste)	HVA	Fill area is greater than 10 hectares.
			Landfilling (Solid Non Hazardous Industrial or Commercial)		Combined rate of discharge is greater than 380,000,000 cubic metres per year.
			Liquid Industrial Waste Injection into a Well		Depends on the size of the application area in hectares
	Low	Significant	Application of Untreated Septage to Land	HVA	Depends on the type of storage (e.g., pit or impoundment structure at the surface) as well as National Pollution Release Inventory (NPRI) reporting requirements. See 'Detailed Circumstances for Waste' at the end of this table for more information.
			Storage, Treatment and Discharge of Tailings from Mines	HVA	Fill area is greater than 1 hectare.
			Landfarming of Petroleum Refining Waste	HVA	Combined rate of discharge is greater than 380 cubic metres per year.
			Liquid Industrial Waste Injection into a Well	HVA	Depends on above or below grade, outdoor area, not in a container. See 'Detailed Circumstances for Waste' at the end of this table for more information.
			PCB Waste Storage	HVA	Fill area is less than 1 hectare.
			Landfilling (Hazardous Waste)	HVA	Fill area is less than 1 hectare.
			Landfilling (Municipal Waste)		
			Landfilling (Solid Non Hazardous Industrial or Commercial)		
			Storage of Hazardous Waste at Disposal Sites	HVA	Hazardous waste or liquid industrial waste stored at or above grade, below or partially below grade.
			Storage of Wastes described in clauses...of the definition of hazardous waste	HVA	Stored below, at or above grade.

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	Significant	Moderate	Low			
The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage				Discharge of Untreated Stormwater from a Stormwater Retention Pond	WHPA 10 IPZ 10,9,8.1,8	Depends on the size of the drainage area and the type of land use (e.g. rural, residential, industrial/commercial) in the drainage area. See 'Detailed Circumstances for 'Sewage Works' at the end of this table for more information.
				Sanitary Sewers and Related Pipes	WHPA 10 IPZ 10	Any size system that is part of a wastewater collection facility that collects or transmits sewage containing human waste. See 'Detailed Circumstances for 'Sewage Works' at the end of this table for more information.
				Sewage Treatment Plant Effluent Discharges Including Lagoons	WHPA 10	Discharging to water: any size system.
					IPZ 10,9,8.1,8	Discharging to land: depends on the size of the system (average daily rate in cubic metres that the system is designed to discharge). See 'Detailed Circumstances for 'Sewage Works' at the end of this table for more information.
				Storage of Sewage (e.g. Treatment Plant Tanks)	WHPA 10, 8	Any size system except in WHPA 8 where the system must be designed for >50,000 m3 average daily rate.
					IPZ 10,9	Below grade storage is not a significant threat in IPZ 9. See 'Detailed Circumstances for 'Sewage Works' at the end of this table for more information.
				Combined Sewer Discharge from a Stormwater Outlet to Surface Water	IPZ 10,9,8.1,8	Any size system that may discharge sanitary sewage containing human waste to surface water other than by way of a designed bypass.
				Sewage Treatment Plant Bypass Discharge to Surface Water	IPZ 10,9,8.1,8	Any size system discharging via a designed bypass.
Industrial Effluent Discharge	IPZ 10,9,8.1,8	System discharges to surface water.				
		System has as its primary function the collection, transmission or treatment of industrial sewage. See 'Detailed Circumstances for 'Sewage Works' at the end of this table for more information.				
On-Site Sewage System	WHPA 10	On-site Sewage System subject to the <i>Building Code Act</i> or a sewage works subject to the <i>Ontario Water Resources Act</i> . See 'Detailed Circumstances for 'Sewage Works' at the end of this table for more information.				
	IPZ 10					
The storage of snow			Storage of Snow	WHPA 10	Snow is stored below grade in an area greater than 0.01 hectares or snow stored at or above grade in an area greater than 1 hectare.	
				IPZ 10	Snow stored at or above grade in an area greater than 0.1 hectares.	
				IPZ 9	Snow stored at or above grade in an area greater than 1 hectares.	
The application or road salt and the handling and storage road salt			Application of Road Salt	WHPA 10	Impervious surface area must be greater than 80 percent. This circumstance is only met in Kemptville.	
				IPZ 10, 9	Depends on the percentage of impervious surface area (if vulnerability score is 10, must be greater than 8 percent; if vulnerability score is 9, must be greater than 80 percent).	
			Application of Road Salt	HVA	Road salt applied anywhere in a Highly Vulnerable Aquifer.	
				Storage of Road Salt	WHPA 10	Amount of road salt storage must be be greater than 5,000 tonnes.
			IPZ 10, 9		Depends on the amount of road salt stored (if vulnerability score is 10, must be greater than 500 tonnes. If vulnerability score is 9, must be greater than 5,000 tonnes).	

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	Significant	Moderate	Low			
The handling and storage of a dense non-aqueous phase liquid (DNAPL)				Storage and handling of DNAPLs	WHPA A, B and C (any score) - <i>Illustrated on the maps as "WHPA-C"</i>	The storage and handling (at, above or below grade) of any quantity of the following DNAPL substances: dioxane-1,4; polycyclic aromatic hydrocarbons (PAHs); tetrachloroethylene (PCE) (also called "PERC"); trichloroethylene (TCE); vinyl chloride.
				Storage and handling of DNAPLs	IPZ 10	The storage (at, above or partly below grade) and handling (above grade) of any quantity of the following DNAPL substances: Dioxane-1,4; polycyclic aromatic hydrocarbons (PAHs); tetrachloroethylene (PCE) (also called "PERC"); trichloroethylene (TCE); vinyl chloride.
The storage of an organic solvent				Storage of Organic Solvents	WHPA 10	1) Carbon tetrachloride: • greater than 25 litres stored in a container below or partly below grade • greater than 250 litres stored in a container at or above grade 2) Chloroform and methylene chloride (dichloromethane): • greater than 250 litres stored in a container below or partly below grade • greater than 2,500 litres stored in a container at or above grade 3) Pentachlorophenol: • greater than 2,500 litres stored in a container below or partly below grade
					IPZ 10	The storage of the following organic solvent substances: • carbon tetrachloride; chloroform; methylene chloride (dichloromethane); pentachlorophenol under the following conditions. • greater than 250 litres if stored at or above or partly below grade and in a container.
The handling and storage of fuel (heating oil)				Storage of Fuel	WHPA 10	Facility* storing: • greater than 250 litres of fuel – below or partly below grade. • greater than 2,500 litres of fuel – at or above grade. * "Facility" means installation (including homes) where fuel oil, or used oil when such oil is used as a fuel, is handled. This encompasses fuel oil storage for furnaces, boilers, water heaters and standby generators but excludes vehicles, lawnmowers or portable storage like jerry cans.
					IPZ 10	Facility* storing: • greater than 2,500 litres of fuel – partly below, at or above grade. * "Facility" means installation (including homes) where fuel oil, or used oil when such oil is used as a fuel, is handled. This encompasses fuel oil storage for furnaces, boilers, water heaters and standby generators but excludes vehicles, lawnmowers or portable storage like jerry cans.
				Handling of Fuel	WHPA 10	Handling of fuel oil in relation to the storage of: • greater than 2,500 litres of fuel – above or below grade.
					IPZ 10	Handling of fuel oil in relation to the storage of: • greater than 2,500 litres of fuel – above grade.

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	Significant	Moderate	Low							
The handling and storage of fuel (liquid fuel)				Storage of Fuel	WHPA 10	Facility* storing: <ul style="list-style-type: none"> · greater than 250 litres of fuel – below or partly below grade · greater than 2,500 litres of fuel – at or above grade * "Facility" means a permanent or mobile retail outlet, bulk plant, marina, cardlock/keylock, private outlet or farm where gasoline or an associated product is handled other than in portable containers.				
				Handling of Fuel	IPZ 10	Facility* (not including a bulk plant) storing: <ul style="list-style-type: none"> · greater than 2,500 litres of fuel – partly below, at or above grade * "Facility" means a permanent or mobile retail outlet, bulk plant, marina, Cardlock/Keylock, private outlet or farm where gasoline or an associated product is handled other than in portable containers.				
					WHPA 10	Handling of fuel oil in relation to the storage of: greater than 2,500 litres of fuel – above or below grade.				
				IPZ 10	Handling of fuel oil in relation to the storage of: greater than 2,500 litres of fuel – above grade.					
The application of commercial fertilizer to land and the handling and storage of commercial fertilizer				Application of Commercial Fertilizer	WHPA 10	Depends on a combination of the managed land percentage and livestock density. This circumstance is only met at Munster.				
				Storage and handling of Commercial Fertilizer	IPZ 10,9					
						WHPA 10	Amount stored is greater than 2,500 kg.			
				IPZ 10		Stored for retail sale or in relation to its application.				
The application of pesticide to land and the handling and storage of pesticide				Application of Pesticide	WHPA 10	Land area applied is greater than 1 hectare, chemicals used are MCPA, Mecoprop. Land area applied is greater than 10 hectares, refer to 'Provincial Tables of Circumstances' for chemicals.				
					IPZ 10	Any land area applied, chemicals used are MCPA, Mecoprop. Land area applied is greater than 1 hectare, refer to 'Provincial Tables of Circumstances' for chemicals. Land area applied is greater than 10 hectares, refer to 'Provincial Tables of Circumstances' for chemicals.				
						IPZ 9	Land area applied is greater than 1 hectare, chemicals used are MCPA, Mecoprop. Land area applied is greater than 10 hectares, refer to 'Provincial Tables of Circumstances' for chemicals.			
					IPZ 8.1	Land area applied is greater than 10 hectares, chemical used is MCPA.				
					Storage and handling of Pesticide	WHPA 10	Greater than 2,500 kg of MCPA or Mecoprop stored at a manufacturing or processing facility. Greater than 250 kg of MCPA or Mecoprop or greater than 2,500 kg of other chemicals (refer to 'Provincial Tables of Circumstances') stored for retail sale or by end users.			
						IPZ 10	Greater than 2,500 kg of MCPA or Mecoprop stored at a manufacturing or processing facility. Greater than 250 kg of MCPA or Mecoprop or greater than 2,500 kg of other chemicals (refer to 'Provincial Tables of Circumstances') stored for retail sale or by end users.			
				IPZ 9			Greater than 2,500 kg of MCPA or Mecoprop stored for retail sale or by end users.			
				The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard					Management or Handling of ASM Generation (grazing and pasturing, yards or confinement)	WHPA 10
					IPZ 10,9,8.1,8					

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	Significant	Moderate	Low			
The application agricultural source material to land and the storage of agricultural source material				Application and Storage	WHPA 10	Any amount applied to land.
					IPZ 10,9,8.1,8	Any amount stored in a permanent nutrient storage facility or at a temporary field storage site.
The application of non-agricultural source material to land and the handling and storage of non-agricultural source material				Application of NASM (contains material from a meat plant or sewage works)	WHPA 10	Any amount applied to land.
				Application of NASM (does not contain material from a meat plant or sewage works)	WHPA 10	Depends on a combination of the managed land percentage and livestock density. This circumstance is only met at Munster (any amount applied).
					IPZ 10,9,8.1,8	
				Storage and handling of NASM (contains material from a meat plant)	WHPA 10	Any storage below, at or above grade.
					IPZ 10	
Storage and handling of NASM (contains material from a meat plant)	IPZ 9,8.1,8	Any storage at or above grade.				
Storage and handling of NASM (does not contain material from a meat plant)	WHPA 10	Depends on location of storage (above or below grade), type of storage (permanent or temporary field) and the mass of nitrogen in tonnes.				
	IPZ 10,9					
Aquaculture - The management of agricultural source material				The Management of ASM	IPZ 10, 9	The use of land or water for aquaculture. The land use may result in the presence of one or more pathogens in surface water.
The management of runoff that contains chemicals used in the de-icing of aircraft					WHPA 10	Runoff containing de-icing materials that originates at a national airport.
					IPZ 10	Runoff containing de-icing materials that originates at a national or regional airport.
					IPZ 9	Runoff containing de-icing materials that originates at a national airport.

Detailed Circumstances for Waste

SIGNIFICANT THREAT CIRCUMSTANCES

Waste Disposal Site - Application of Untreated Septage to Land

Vulnerable Area	Significant Threat Circumstance
WHPA 10	Land application of hauled sewage in any quantity
IPZ 10, 9, 8.1, 8	

Storage, Treatment and Discharge of Tailings from Mines

Vulnerable Area	Significant Threat Circumstance
WHPA 10	Stored in a pit; is or is not part of a facility for which the NPRI Notice requires a person to report
	Stored in an impoundment structure at the surface; is part of a facility for which the NPRI Notice requires a person to report*
IPZ 10	Stored in an impoundment structure at the surface; is or is not part of a facility for which the NPRI Notice requires a person to report
	Stored in an impoundment structure at the surface; is part of a facility for which the NPRI Notice requires a person to report*
IPZ 9	Stored in an impoundment structure at the surface; is part of a facility for which the NPRI Notice requires a person to report*
	is part of a facility for which the NPRI Notice requires a person to report*

*The report must include information in relation to a substance listed in Group 1, 2, 3 or 4 of Part 1 of Schedule 1 or Part 2 of Schedule 1 of the notice

Waste Disposal Site - Landfarming of Petroleum Refining Waste*

Vulnerable Area	Significant Threat Circumstance
WHPA 10	> 10 ha
IPZ 10	> 1 ha
IPZ 9	> 10 ha

*The land disposal of petroleum refining waste within the meaning of clause (d) of the definition of "land disposal" in S. 1 of Reg. 347 (General - Waste Management) RRO 1990 made under the *Environmental Protection Act*

Waste Disposal Site - Liquid Industrial Waste Injection into a Well*

Vulnerable Area	Significant Threat Circumstance
WHPA 10	Combined rate of discharge > 380 m ³ / year
WHPA 8	Combined rate of discharge > 380 million m ³ / year

*The land disposal of liquid industrial waste within the meaning of clause (c) of the definition of "land disposal" in S. 1 of Reg. 347 (General - Waste Management) made under the *Environmental Protection Act*

Waste Disposal Site - PCB Waste Storage*

Vulnerable Area	Significant Threat Circumstance
WHPA 10	Below grade in a facility or engineered cell
	Below or partially below grade in a storage tank
	Outdoor area and not in a container
IPZ 10	Outdoor area and not in a container

*The PCB waste is stored at a PCB waste disposal site as described in S. 3 of Reg 362 (Waste Management - PCBs), RRO 1990, made under the *Environmental Protection Act* or was delivered to a site under written instructions of a Director in accordance with clause 8(a) of that regulation.

Waste Disposal Site - Landfilling (Hazardous Waste)*

Vulnerable Area	Significant Threat Circumstance
WHPA 10	Any size fill area
IPZ 10	>1 ha fill area
IPZ 9	> 10 ha fill area

*The land disposal of hazardous waste, liquid industrial waste, or processed liquid industrial waste within the meaning of clauses (a) and (b) in S. 1 of Reg. 347 (General - Waste Management) made under the *Environmental Protection Act*

Waste Disposal Site - Landfilling (Municipal Waste)*

Vulnerable Area	Significant Threat Circumstance
WHPA 10	Any size fill area
WHPA 8	>10 ha fill area
IPZ 10	>1 ha fill area
IPZ 9	> 10 ha fill area

*The land disposal of municipal waste within the meaning of clauses (a) and (b) of the definition of "land disposal" in S. 1 of Reg. 347 (General - Waste Management) made under the *Environmental Protection Act*

Waste Disposal Site - Landfilling (Solid, Non-Hazardous Industrial or Commercial Waste)*

Vulnerable Area	Significant Threat Circumstance
WHPA 10	Any size fill area
WHPA 8	>10 ha fill area
IPZ 10	>1 ha fill area
IPZ 9	> 10 ha fill area

*The land disposal of industrial or commercial waste within the meaning of clause (c) of the definition of "land disposal" in S. 1 of Reg. 347 (General - Waste Management) made under the *Environmental Protection Act*

Waste Disposal Site - Storage of Hazardous Waste at Disposal Sites*

Vulnerable Area	Significant Threat Circumstance
WHPA 10	Hazardous waste or liquid industrial waste stored at or above grade, below or partially below grade
IPZ 10, 9	Hazardous waste or liquid industrial waste stored at or above grade or partially below grade

*Hazardous waste or liquid industrial waste.

Waste Disposal Site - Storage of Wastes Described in Clauses...*

Vulnerable Area	Significant Threat Circumstance
WHPA 10	Stored below, at or above grade
IPZ 10	Stored at or above grade

*A site that is not approved to accept hazardous waste or liquid industrial waste but accepts a waste described in clause (p,q,r,s,t or u) of the definition of hazardous waste as defined in Reg. 347 (General - Waste Management) made under the *Environmental Protection Act* or in clause (d) of the definition of liquid industrial waste in that regulation.

MODERATE THREAT CIRCUMSTANCES IN THE HIGHLY VULNERABLE AQUIFER

Waste Disposal Site - Landfilling (Municipal Waste)*

Vulnerable Area	Moderate Threat Circumstance
HVA	>10 ha fill area

*The land disposal of municipal waste within the meaning of clauses (a) and (b) of the definition of "land disposal" in S. 1 of Reg. 347 (General - Waste Management) made under the *Environmental Protection Act*

Waste Disposal Site - Landfilling (Solid, Non-Hazardous Industrial or Commercial Waste)*

Vulnerable Area	Moderate Threat Circumstance
HVA	>10 ha fill area

*The land disposal of industrial or commercial waste within the meaning of clause (c) of the definition of "land disposal" in S. 1 of Reg. 347 (General - Waste Management) made under the *Environmental Protection Act*

Waste Disposal Site - Liquid Industrial Waste Injection into a Well*

Vulnerable Area	Moderate Threat Circumstance
HVA	Combined rate of discharge > 38 million m ³ / year

*The land disposal of liquid industrial waste within the meaning of clause (c) of the definition of "land disposal" in S. 1 of Reg. 347 (General - Waste Management) made under the *Environmental Protection Act*

LOW THREAT CIRCUMSTANCES IN THE HIGHLY VULNERABLE AQUIFER

Application of Untreated Septage to Land

Vulnerable Area	Low Threat Circumstance
HVA	The application of hauled sewage to land. Any size area.

Storage, Treatment and Discharge of Tailings from Mines

Vulnerable Area	Low Threat Circumstance
HVA	Stored in a pit or stored in an impoundment structure on the surface;
	Is or is not part of a facility for which the NPRI Notice requires a person to report

*The report must include information in relation to a substance listed in Group 1, 2, 3 or 4 of Part 1 of Schedule 1 or Part 2 of Schedule 1 of the notice

Waste Disposal Site - Landfarming of Petroleum Refining Waste*

Vulnerable Area	Low Threat Circumstance
HVA	Any size fill area

*The land disposal of petroleum refining waste within the meaning of clause (d) of the definition of "land disposal" in S. 1 of Reg. 347 (General - Waste Management) RRO 1990 made under the *Environmental Protection Act*

Waste Disposal Site - Landfilling (Hazardous Waste)*

Vulnerable Area	Low Threat Circumstance
HVA	Any size fill area

*The land disposal of hazardous waste, liquid industrial waste, or processed liquid industrial waste within the meaning of clauses (a) and (b) in S. 1 of Reg. 347 (General - Waste Management) made under the *Environmental Protection Act*

Waste Disposal Site - Landfilling (Municipal Waste)*

Vulnerable Area	Low Threat Circumstance
HVA	Any size fill area

*The land disposal of municipal waste within the meaning of clauses (a) and (b) of the definition of "land disposal" in S. 1 of Reg. 347 (General - Waste Management) made under the *Environmental Protection Act*

Waste Disposal Site - Landfilling (Solid, Non-Hazardous Industrial or Commercial Waste)*

Vulnerable Area	Low Threat Circumstance
HVA	Any size fill area

*The land disposal of industrial or commercial waste within the meaning of clause (c) of the definition of "land disposal" in S. 1 of Reg. 347 (General - Waste Management) made under the *Environmental Protection Act*

Waste Disposal Site - Liquid Industrial Waste Injection into a Well*

Vulnerable Area	Low Threat Circumstance
HVA	Combined rate of discharge > 380 m ³ / year

*The land disposal of liquid industrial waste within the meaning of clause (c) of the definition of "land disposal" in S. 1 of Reg. 347 (General - Waste Management) made under the *Environmental Protection Act*

Waste Disposal Site - PCB Waste Storage*

Vulnerable Area	Low Threat Circumstance
HVA	Stored below grade in a facility or engineered cell
	Stored in drums at or above grade
	Stored in storage tanks below grade or partially below grade
	Stored in an outdoor area and not in a container

*The PCB waste is stored at a PCB waste disposal site as described in S. 3 of Reg 362 (Waste Management - PCBs), RRO 1990, made under the *Environmental Protection Act* or was delivered to a site under written instructions of a Director in accordance with clause 8(a) of that

Waste Disposal Site - Storage of Hazardous Waste at Disposal Sites*

Vulnerable Area	Low Threat Circumstance
HVA	Hazardous waste or liquid industrial waste stored at or above grade, below or partially below grade

*Hazardous waste or liquid industrial waste.

Waste Disposal Site - Storage of Wastes Described in Clauses...*

Vulnerable Area	Low Threat Circumstance
HVA	Stored below, at or above grade

*A site that is not approved to accept hazardous waste or liquid industrial waste but accepts a waste described in clause (p,q,r,s,t or u) of the definition of hazardous waste as defined in Reg. 347 (General - Waste Management) made under the *Environmental Protection Act* or in clause (d) of the definition of liquid industrial waste in that regulation.

Detailed Circumstances for Sewage Works

SIGNIFICANT THREAT CIRCUMSTANCES

Untreated Stormwater from a Stormwater Retention Pond*

Vulnerable Area	Significant Threat Circumstance
WHPA 10	>100 ha; drainage area is rural, agricultural, low or high density residential
	>10 ha; drainage area is industrial/commercial
IPZ 10	>10 ha; drainage area is rural, agricultural, low density residential
	> 1 ha; drainage area is high density residential or industrial/commercial
IPZ 9	>100 ha; drainage area is rural, agricultural, low or high density residential
	>10 ha; drainage area is industrial/commercial
IPZ 8.1, 8	>100 ha; drainage area is industrial/commercial

*The system is a storm water management facility designed to discharge storm water to land or surface water.

The drainage area associated with the facility is x ha and the predominant land uses in the area are...

Sanitary Sewers and Related Pipes

Vulnerable Area	Significant Threat Circumstance
WHPA 10	The system is part of a wastewater collection facility that collects or transmits sewage containing
	Does not include a sewage storage tank or a designed bypass
	Chemical circumstance: System is designed to convey >10,000 m ³ /day
	Pathogen circumstance: Any size system
IPZ 10	The system is part of a wastewater collection facility that collects or transmits sewage containing
	Does not include a sewage storage tank or a designed bypass
	Chemical circumstance: None
	Pathogen circumstance: Any size system

Sewage Treatment Plant Effluent Discharges (Including Lagoons)*

Vulnerable Area	Significant Threat Circumstance
WHPA 10	Discharging to surface water - any size system
	Discharging to land; system is designed for >17,500 m ³ average daily rate
IPZ 10	Discharging to surface water - any size system
	Discharging to land; system is designed for >2,500 m ³ average daily rate
IPZ 9	Discharging to surface water - any size system
	Discharging to land; system is designed for >17,500 m ³ average daily rate
IPZ 8.1, 8	Discharging to surface water - any size system
	Discharging to land; system is designed for >50,000 m ³ average daily rate

*The system is a wastewater treatment facility that discharges directly to land or surface water through a means other than a designed bypass.

The system is designed to discharge treated sanitary sewage at average daily rate of x m³ on an annual basis.

Storage of Sewage (E.G. Treatment Plant Tanks)*

Vulnerable Area	Significant Threat Circumstance
WHPA 10	Any size system; tanks at, above or below grade
WHPA 8**	System is designed for >50,000 m ³ average daily rate; tanks below or partly below grade (above grade tanks not significant)
IPZ 10	Any size system; tanks at, above or below grade
IPZ 9	Any size system; tanks at or above grade (below grade tanks not significant)

***Chemical Circumstance Wording:** The system is a treatment tank or storage tank that is part of a sewage works within the meaning of the *Ontario Water Resources Act*.

The tank treats or stores sanitary sewage containing human waste.

The system is associated with a wastewater treatment facility designed to discharge treated sanitary sewage at an average daily rate of x m³ on an annual basis.

***Pathogen Circumstance Wording:** The system is a sewage treatment tank or storage tank in either a wastewater collection facility or wastewater treatment facility.

**No pathogen circumstance in WHPA 8

Combined Sewer Discharge from a Stormwater Outlet to Surface Water*

Vulnerable Area	Significant Threat Circumstance
IPZ 10	The system** is a combined sewer that may discharge sanitary sewage containing human waste to surface water
IPZ 9, 8.1, 8	

*Other than by way of a designed bypass.

**Any size system

Sewage Treatment Plant Bypass Discharge to Surface Water

Vulnerable Area	Significant Threat Circumstance
IPZ 10	Any size system* discharging via a designed bypass
IPZ 9, 8.1, 8	Any size system* discharging via a designed bypass

*The system is a wastewater treatment facility that may discharge sanitary sewage containing human waste via a designed bypass.

Industrial Effluent Discharges

Vulnerable Area	Significant Threat Circumstance
IPZ 10	System discharges to surface water*
	System is or is not part of a facility for which the NPRI notice requires a person to report
IPZ 9, 8.1, 8	System discharges to surface water*
	System is not part of a facility for which the NPRI notice requires a person to report
IPZ 10, 9, 8.1, 8	System discharges to surface water**

*Primary function is the collection, transmission or treatment of industrial sewage.

**Primary functions include conveying sewage from a meat plant (pathogen circumstance).

***NPRI (National Pollution Release Inventory) is a publicly-accessible inventory of pollutant releases (to air, water & land), disposals and transfers for recycling .

On-Site Sewage Systems*

Vulnerable Area	Significant Threat Circumstance
WHPA 10	earth pit privy, privy vault, greywater system, cesspool, leaching bed or holding tank**
IPZ 10	earth pit privy, privy vault, greywater system, cesspool, leaching bed or holding tank**

*A sewage system as defined in O. Reg. 350/06 (Building Code) or a sewage works as defined in the *Ontario Water Resources Act* . Also referred to as On-Site Sewage Systems

**The system requires or uses a holding tank for the retention of hauled sewage at the site where it is produced before its collection by a hauled sewage system.