DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

Thames-Sydenham and Region

Source Protection Plan

Threats Policy Discussion Papers

November 2, 2012

Produced in support of the Thames-Sydenham and Region Source Protection Plan for:

Lower Thames Valley Source Protection Area
St Clair Region Source Protection Area
Upper Thames River Source Protection Area

Prepared by the Thames-Sydenham and Region Source Protection Committee

St. Clair Conservation

Lower Thames Valley Conservation Authority

Upper Thames River Conservation Authority

Ontario

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Introduction

A series of Threat Policy discussion papers for the Thames-Sydenham and Region have been developed in support of Source Protection Plan development. Each discussion paper looks at the nature of one or more types of drinking water threat that have been prescribed in Ontario Regulation 287/07 made under the Clean Water Act, describes the local occurrence of those threats, assesses existing policies/programs and introduces related 'policy concepts' for Source Protection Planning.

This is a standalone document compiled from individual threats policy discussion papers to provide further background into the prescribed threats. Each discussion paper addresses the nature of the drinking water threat; local occurrences of the threat; applicable legislation, policies and programs; gaps in legislation, policies and programs; policy considerations; proposed policy concepts; policy examples, draft policies and references. This document is organized in the following manner:

Table 0-1 Organization of Document

Section 1:	provides information on Waste Disposal and Sewage Threats
1.1.	Application of untreated septage to the land
1.2.	Waste disposal sites
1.3.	Stormwater management
1.4.	Sewage treatment plants, sewage storage and sanitary sewers
1.5.	On-site septic systems
1.6.	Industrial effluent
Section 2:	provides information on Agricultural Threats
2.1.	Application and storage of agricultural source material (ASM)
2.2.	Application and handling/storage of non-agricultural source material (NASM)
2.3.	Applicant and handling/storage of commercial fertilizer
2.4.	Application and handling/storage of pesticides
2.5.	The use of land as livestock grazing and pasturing, outdoor confinement areas and farm-animal yards
Section 3:	provides information on Chemical Threats
3.1.	Handling and storage of fuel
3.2.	Handling and storage of dense non-aqueous phase liquids (DNAPLs) and organic solvents
Section 4:	provides information on Transportation Threats
4.1.	Application and handling/storage of road salt and storage of snow
4.2.	Spills prevention, spills contingency and emergency response plans
Section 5:	provides information on Transport Pathways
Section 6:	provides information on Local Threats (transportation of fuel and fertilizer along corridors and petroleum products through pipelines)
Section 7:	provides information on Threats Not in the Thames-Sydenham and Region
7.1.	Storage, treatment and discharge of tailings from mines
7.2.	Management of runoff that contains chemicals used in de-icing aircraft
7.3.	Management of ASM-aquaculture
Definitions	

Each threat policy discussion paper was developed individually to assist with the policy development related to the drinking water threats discussed in the paper. These were considered to be working drafts because were continuously revised as the policy development process progresses. They were used for discussion with working groups including the Municipal Policy Advisory Committee. This discussion paper represents the best information available to the SPC upon which they based their policy decisions. ***While every effort has been made to ensure the accuracy of the information in this document, it should not be construed as legal advice or relied on as a substitute for the legislation***.

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