DRINKING WATER SOURCE PROTECTION
DE L'EAU POTABLE À LA SOURCE

Raisin Region Conservation Authority
Office de protection de la nature de la region Raisin

South Nation Conservation
de la Nation Sud

CORNWALL

Drinking Water Source Protection

Ontario's Clean Water Act helps protect drinking water from source to tap by preventing contaminants from entering sources of drinking water like lakes, rivers and aquifers. Scientific studies were completed in 26 communities across our region to determine the local drinking water source. These studies also identify the activities that could adversely impact the quality of the drinking water source. The technical studies can be found in the comprehensive *Assessment Report.*

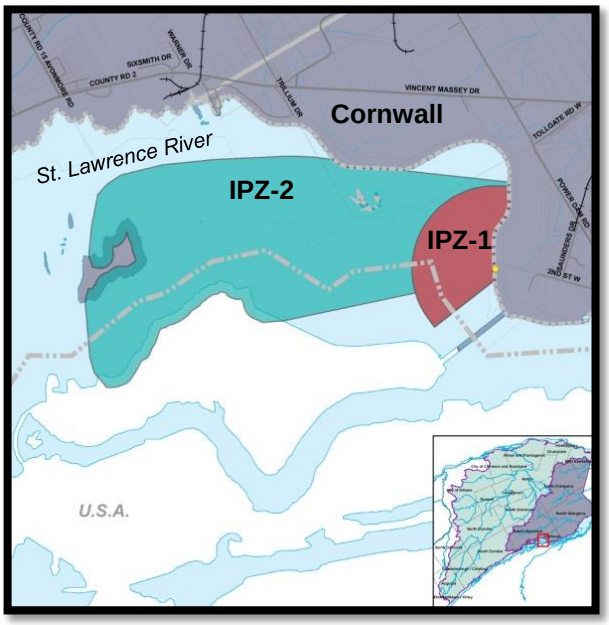
City of Cornwall

The City of Cornwall of Cornwall's municipal water supply is taken from a small lake feature, within the St. Lawrence River (Lake St. Lawrence). The intake is located in the west face of the RH Saunders Dam, within the Cornwall Dyke closure structure on north side of the dam. The depth of the water over the intake is 15 m. Raw water is piped from the intake by a gravity fed main to the water purification plant, located 3km east of the intake. Owned and operated by the City of Cornwall, the Cornwall Water Treatment Plant currently serves a population of over 47,000 residents and includes service to the communities of Rosedale Terrace and St. Andrew's West.

City of Cornwall Intake Area

What is an Intake Protection Zone?

Surface water intakes draw raw water from rivers or lakes to provide drinking water. An Intake Protection Zone (IPZ) is an area of water or land that is located within a specific distance of an intake. Intake protection zones in smaller bodies of water may also include smaller rivers or tributaries.



City of Cornwall Intake Protection Zones (IPZs)

IPZ-1: This is the area closest to the intake and is the area of highest concern because contaminants entering this zone can reach the intake quickly with little or no dilution.

IPZ-2: Considered the secondary protection zone, this area is calculated based upon how far water can travel in a two-hour time period. The allocation is determined by viewing flows, wind, and transport pathways.

This is a summary. For more information on Source Protection in this region, please visit www.yourdrinkingwater.ca.

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Vulnerability Scores

Vulnerability scores are used to indicate how at risk the drinking water source is to contamination. Scores in the Assessment Report are based upon the features of each intake. Characteristics such as the depth of the intake, distance of the intake from land, and the past water quality history affect its vulnerability. The higher the vulnerability score, the higher the level of concern for possible source water contamination, with a score of 10 being the highest score. The following table summarizes the vulnerability scores for each IPZ area.

Vulnerable Area	Vulnerability Score
IPZ-1	8
IPZ-2	5.6

Existing Water Quality

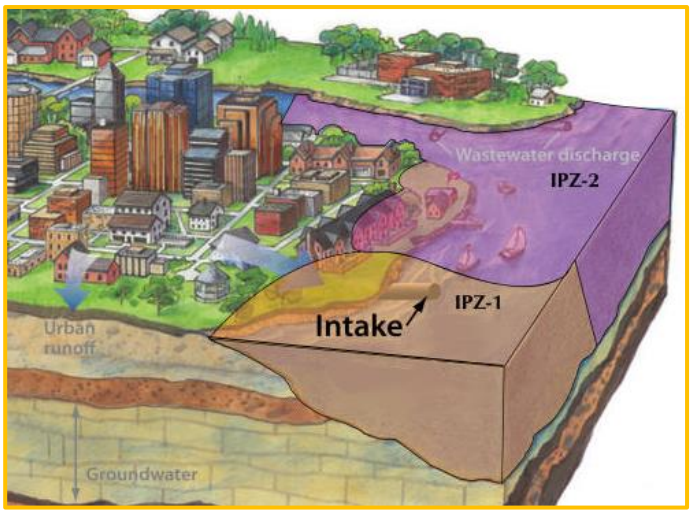
A review of water quality data from regular testing at the Cornwall intake confirms that there are no current issues that adversely impact the source for drinking water.

Drinking Water Threats

There are certain activities which have been identified by the province as threats to drinking water sources. An activity may be considered a significant threat based on various circumstances: proximity to the well, vulnerability of the IPZ and the nature of the activity.

The following table lists the significant threat activities that pose a risk to the drinking water source in this area.

Drinking Water Threat
Application of Septage
Sewage Works
Agricultural Activities
Chemicals



What is Next?

The Raisin-South Nation Source Protection Committee has completed its Source Protection Plan in consultation with local municipalities and stakeholders. This committee is made up of community members representing the public, farmers, industry, business and local municipalities.

The Source Protection Plan identifies ways to protect the quality and quantity of municipal drinking water sources in this part of eastern Ontario. The Plan addresses existing threats to drinking water and contains policies to prevent future risks.

The South Nation and Raisin Region Conservation Authorities will continue to work with municipalities and property owners to ensure local drinking water is safe.

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