





# RAISIN-SOUTH NATION SOURCE PROTECTION REGION

## PROPOSED TERMS OF REFERENCE

for the

Raisin Region Source Protection Area and the South Nation Source Protection Area

Submitted to The Minister of the Environment May 31, 2009

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### **Executive Summary**

### Why you should read this document:

The Clean Water Act, 2006 impacts municipalities, conservation authorities, and watershed residents. Attached is a terms of reference for all municipalities within the Raisin-South Nation Source Protection Region. This terms of reference is the basis for developing source protection plans which will include:

- The identification of drinking water risks
- Development of Land Use Policies to address drinking water risks

Source Protection Plans will impact all municipalities, especially municipalities that own and/or operate drinking water systems. The tasks in this document lay the foundation for how these plans will be developed. Specifically, the *Clean Water Act, 2006* may affect municipalities through:

- Costs for implementation of Source Protection Plans
- Required amendments to Official Plans and Zoning By-Laws

### What is in this document:

Attached is the proposed Terms of Reference.

The Terms of Reference is a work plan that outlines:

- 1. resources;
- 2. costs; and
- 3. timelines for developing the Assessment Reports and Source Protection Plans.

**Assessment Reports**: are a summary of water quality and quantity risks in the Raisin-South Nation Source Protection Region.

**Source Protection Plans:** are policy documents, which are action plans for eliminating, reducing, and managing water quantity and quality risks in the Raisin-South Nation Source Protection Region.

The Source Protection Committee has circulated previous drafts of the attached terms of reference to municipalities, working groups, First Nations, conservation authorities and the general public. All municipal residential drinking water systems are currently being studied by conservation authorities in cooperation with local municipalities. This document summarizes the work to date, and proposes high level tasks required to complete the source protection plans.

**Note:** The Ministry of the Environment has not released regulations on either the Assessment Report or the Source Protection Plans. Once these regulations are developed, the Terms of Reference will likely require amendment.

### 1.0 Mission Statement and Guiding Principles

The Raisin-South Nation Source Protection Committee is committed to the development of fair and responsible source protection plans. Protection of drinking water as a common resource will be premised upon the following principles:

- Policy development based on the best available science
- Provision of opportunities for public input and consideration of public concerns
- Provision of direct and timely contact with affected property owners
- Consideration of economic impacts (i.e. cost-benefit analysis) prior to implementation
- Advocating sustainable funding for affected property owners and municipalities to implement measures for water quality and/or quantity protection
- Fair and reasonable decisions made through an open and transparent process

### 2.0 Background

The Province of Ontario has embarked on a comprehensive study of all watersheds in the province with the end goal of producing source protection plans, which will outline scientific approaches to managing water quality and quantity risks for drinking water supplies. The *Clean Water Act, 2006* was brought into effect with the passing of the first set of regulations on July 3, 2007. The legislation and associated regulations puts in place a framework for establishing a Source Protection Committee and geographic study areas called Source Protection Regions and Source Protection Areas. The Source Protection Committee has the responsibility to guide the development of source protection plans for each of the Source Protection Areas within their respective Source Protection Region.

The first step for the Source Protection Committee to prepare the source protection plans is to develop a comprehensive terms of reference that will outline the technical studies required, the cost and who will perform the work. In the first set of regulations passed under the *Clean Water Act*, this work plan is referred to as a terms of reference. Regulation 287/07 outlines the requirements for how to develop the terms of reference, the content and the minimum consultation requirements to get local input included.

Prior to the *Clean Water Act*, local municipalities and conservation authorities have been promoting and implementing source water protection for decades. Through watershed studies, landowner incentive programs and regional partnerships for water resource management, a significant wealth of information and progress has been made at the local level to protect our watersheds. Therefore, as the Source Protection Committee develops a work plan for source protection plans, it is imperative that this new governance structure builds on the success and momentum of existing partnerships and watershed initiatives.

### 3.0 Introduction

This document represents the terms of reference for developing two source protection plans for the Raisin-South Nation Source Protection Region (Map 1). The Raisin Region Source Protection Area and the South Nation Source Protection Area together comprise a region that is over 7000 km². The terms of reference begins with a focus on the Source Protection Region and the common elements that need to be studied and included in both source protection plans. For example, groundwater movement within the region is not necessarily restricted to the boundaries of surface watersheds so it is important to examine regional information. Likewise, each Source Protection Area contains distinct municipal residential drinking water systems that must be studied to identify potential drinking water risks. Therefore, the terms of reference will draw upon the local information requirements specific to each Source Protection Area.

As outlined in Figure 1, the content of the terms of reference needs to focus on two principal products: 1) the Assessment Report and 2) the Source Protection Plan. The tasks required to complete each of these products started before the *Clean Water Act* was enacted. The Ministry of the Environment (MOE) has provided funding since 2005 to initiate watershed and technical studies that would integrate into the assessment report and ultimately into source protection plans.

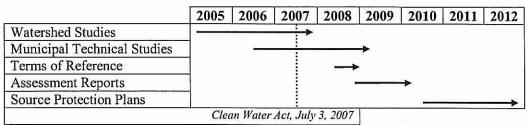


Figure 1. Timeline for Source Protection Products

In order to establish the work plan for developing the assessment reports and the source protection plans, the Source Protection Committee needs to consider what work has been completed, initiated or is required. Figure 2 represents the three components that need to be addressed to establish the scope of work. The inherent challenge is to balance the triangle so the work proposed is achievable and realistic goals are set.

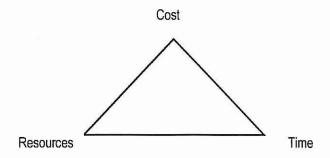
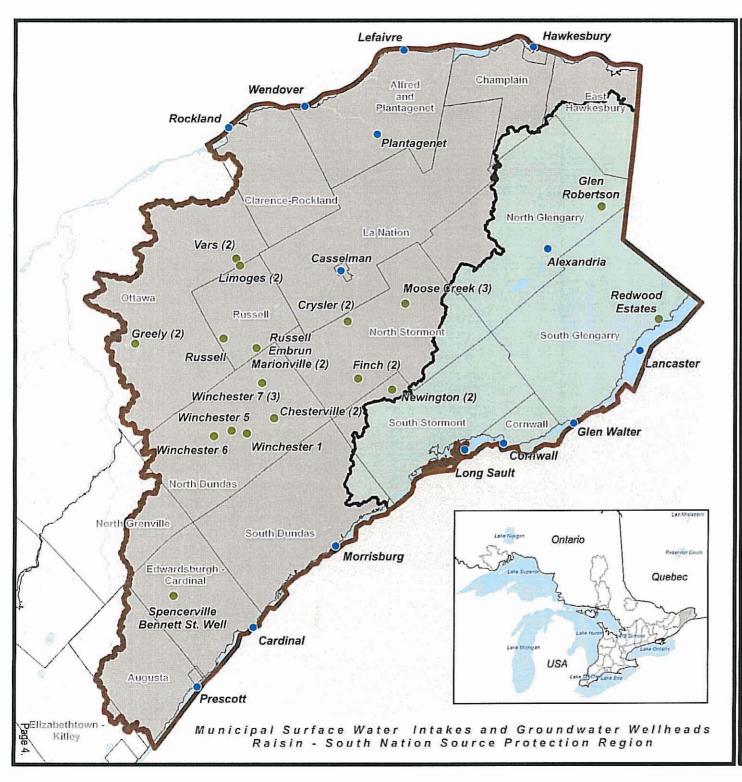
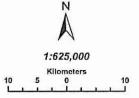


Figure 2. Scope of Work







### Map 1

# Legend Municipal Surface Water Intakes and Wellheads Municipal Surface Water Intake Municipal Wellhead (2) Indicates # of Wellheads Source Protection Region and Area Boundaries Raisin Region Source Protection Area South Nation Source Protection Region Raisin-South Nation Source Protection Region

Source Protection Area Boundary

Created By: D.H.
Date Produced: February 11, 2008
Version: 0.1 Draft
Revision Date: February 20, 2008
Review By: Phil Barnes
Produced For: Terms of Reference
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Municipal Boundary

Major Lakes and Rivers

North American Datum 1983, Zone 18

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The source/base data is known to be the best available information provided through the Ontario Geospatial Data Exchange and by Ontario Ministry of Natural Resources, Ontario Ministry of Environment, Conservation Ontario

Additional data was provided by other provincial or municipal agencies and clearing houses.

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www.yourdrinkingwater.ca www.notreeaupotable.ca The following sections of the terms of reference outline each of the components shown in Figure 2 for both the source protection region and the two source protection areas.

### 4.0 The Source Protection Region

Of the 19 Source Protection Regions in the province of Ontario, the Raisin-South Nation Source Protection Region is the most easterly. Bordered by the province of Quebec to the east and north, the United States to the south and as part of the traditional territories of the Mohawks of Akwesasne and the Algonquins of Pikwakanagan, the Raisin-South Nation Source Protection Region is influenced by many complex inter-provincial and international issues related to water quality and quantity. These influences add complexity to the development of source protection plans, specifically relating to multijurisdictional concerns. The United Counties of Stormont, Dundas and Glengarry, the United Counties of Prescott and Russell, a portion of the United Counties of Leeds and Grenville, a portion of the City of Ottawa, and the City of Cornwall and the Town of Prescott make up the Source Protection Region. Within the Raisin-South Nation Source Protection Region, there are 24 upper, lower and single tier municipalities. These municipalities rely on a combination of surface water and groundwater sources for drinking water, with the majority of the Source Protection Region's population relying on private wells to supply their drinking water. Similar to the reliance on private water supplies, the Source Protection Region consists mainly of private land at approximately 95% of the total land area.

### 4.1 The Raisin Region Source Protection Area

Consisting primarily of the jurisdiction of the Raisin Region Conservation Authority the Raisin Region Source Protection Area is shown on Map 2. With the exception of the Rigaud River watershed, all of the watersheds within the Raisin Region Source Protection Area flow into the St. Lawrence River.

The municipal drinking water supplies in the Raisin Region Source Protection Area are predominantly along the St. Lawrence River. One in-land surface water source is located in the Garry River watershed and the two groundwater sources are Redwood Estates in South Glengarry and Glen Robertson in North Glengarry.

Table 1. Municipalities and Residential Drinking Water Systems in the Raisin Region Source Protection Area

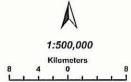
Municipality	Tier	Source Water	# of Wells	Location of Intake or Well	Communities Serviced
United Counties of Prescott-Russell	Upper	Does not operate municipal systems.		n/a	n/a
Champlain	Lower	Municipal supply in South Nation Source Protection Area		n/a	n/a
East Hawkesbury	Lower	Private Wells		n/a	n/a
La Nation	Lower	Municipal supply in South Nation Source Protection Area		n/a	n/a
United Counties of Stormont-Dundas and Glengarry	Upper	Does not operate municipal systems.		n/a	n/a
North Stormont	Lower	Municipal supplies in South Nation Source Protection Area		n/a	n/a
South Stormont	Lower	St. Lawrence River		Long Sault	Long Sault Ingleside
South Dundas	Lower	Municipal supplies in South Nation Source Protection Area		n/a	n/a
North Glengarry	Lower	Garry River Groundwater	1	Alexandria Glen Robertson	Alexandria Glen Robertson
South Glengarry	Lower	St. Lawrence River Groundwater	1	South Lancaster  Glen Walter Redwood Estates	South Lancaster Lancaster Glen Walter Redwood Estates
City of Cornwall	Single	St. Lawrence River		Cornwall	Comwall St. Andrews West

As indicated in Table 1, there are 8 lower tier municipalities and the City of Cornwall that are included in the Raisin Region Source Protection Area. In several instances the portion of the municipality that contains one or more municipal residential drinking water systems is located in the adjacent South Nation Source Protection Area. Despite the location of municipal residential systems, there are a significant number of non-municipal systems scattered throughout the Raisin Region Source Protection Area. The Mohawks of Akwesasne reserve is within the Raisin Region Source Protection Area and has several community drinking water systems with both groundwater and surface water sources.

Page 6.







Map 2

### Legend

Municipal Surface Water Intakes and Wellheads

Municipal Surface Water Intake

Municipal Wellhead (2) Indicates # of Wellheads

Raisin Region Source Protection Area

Raisin Region Source Protection Area

South Nation Source Protection Area

Source Protection Area Boundary

Municipal Boundary

Major Lakes and Rivers

Created By: D.H. Date Produced: February 11, 2008 Version: 0.1 Draft Revision Date: February 20, 2008 Review By: Phil Barnes Produced For: Terms of Reference

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Additional data was provided by other provincial or municipal agencies and

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### 4.2 The South Nation Source Protection Area

The South Nation Source Protection Area contains watershed that flows primarily into the Ottawa River (Map 3). The exception to this is a relatively small band of land along the St. Lawrence River which drains directly south into the St. Lawrence and contains a few municipal residential drinking water systems.

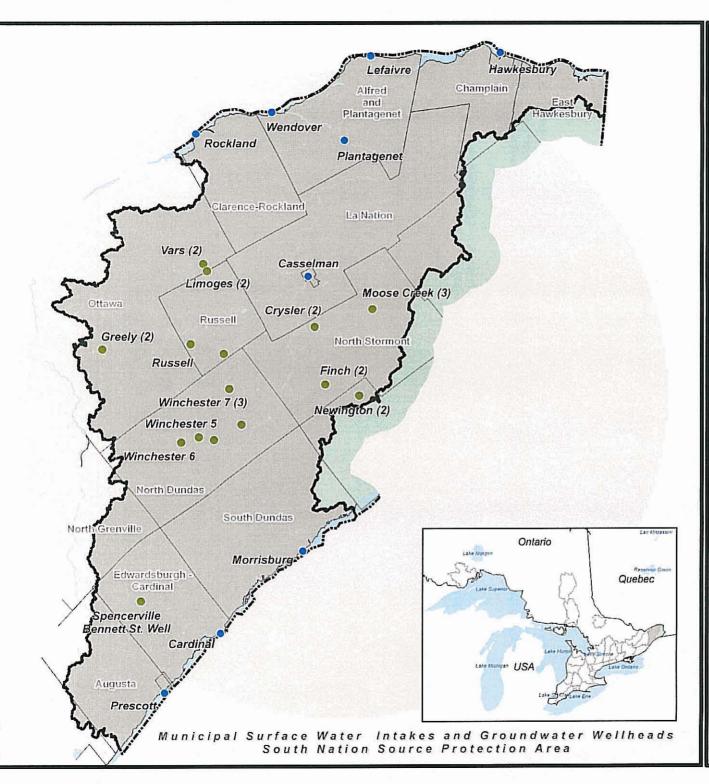
The South Nation Source Protection Area is comprised of the jurisdiction of the South Nation River Conservation Authority as well as the municipalities along the Ottawa River that contain watersheds that flow directly into the Ottawa River. These municipalities or portions thereof have been included in the source protection planning process under the Clean Water Act, 2006.

As indicated in Table 2, the South Nation Source Protection Area contains a complex mix of municipal drinking water systems, many of which have joint servicing with several communities and neighbouring municipalities. The South Nation Source Protection Area covers a large area and has drinking water supplies on the major rivers like the St. Lawrence and Ottawa. In addition, there is an in-land drinking source in the South Nation River and 27 groundwater wells that supply water to in-land communities.

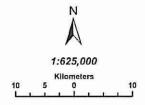
Table 2. Municipalities and Residential Drinking Water Systems in the South Nation Source Protection Area

Municipality	Tier	Source Water	# of Wells	Location of Intake or Well	Communities Serviced
United Counties of Prescott-Russell	Upper	Does not operate municipal systems.			
Clarence-Rockland	Lower	Ottawa River		Rockland	Rockland Hammond, St. Pascal de Bayon Cheney Bourget
Alfred-Plantagenet	Lower	Ottawa River		Lefaivre  Wendover	Lefaivre Alfred St. Isidore Plantagenet
Champlain	Lower	Ottawa River		Hawkesbury	L'Orignal, Vankleek Hill
East Hawkesbury	Lower	Private wells		N/A	N/A
La Nation	Lower	Ottawa River Groundwater	2	Lefaivre Russell	St. Isidore Limoges
Russell	Lower	Groundwater	2	Embrun	Embrun Marionville Russell
			1 1	Russell	Russell

Municipality	Tier	Source Water	# of Wells	Location of Intake or Well	Communities Serviced
Casselman	Lower	South Nation River		Casselman	Casselman
Town of Hawkesbury	Single	Ottawa River		Hawkesbury	Hawkesbury L'Orignal Vankleek Hill
United Counties of Stormont-Dundas and Glengarry	Upper	Does not operate municipal systems.			
North Dundas	Lower	Groundwater	2 6	Chesterville Winchester	Chesterville Winchester
North Stormont	Lower	Groundwater	2 2 3	Crysler Finch Moose Creek	Crysler Finch Moose Creek
South Stormont	Lower	Groundwater	2	Newington	Newington
South Dundas	Lower	St. Lawrence River		Morrisburg	Morrisburg Iroquois
North Glengarry	Lower	Municipal supply in the Raisin Region Source Protection Area		n/a	n/a
United Counties of Leeds-Grenville	Upper	Groundwater	1	Spencerville	Apartment Complex Bennett St.
Edwardsburg- Cardinal	Lower	St. Lawrence River		Cardinal	Cardinal
Augusta	Lower	Private wells		n/a	n/a
Elizabethtown-Kitley	Lower	Municipal supply outside of Source Protection Region		n/a	n/a
North Grenville	Lower	Municipal supply outside of Source Protection Region		n/a	n/a
Town of Prescott	Single	St. Lawrence River		Prescott	Prescott Edwardsburgh-Cardinal
City of Ottawa	Upper	Groundwater  Note: additional systems outside of Source Protection Region	2 2	Vars Greely	Vars Shadow Ridge







Map 3

### Legend

#### Municipal Surface Water Intakes and Wellheads

- Municipal Surface Water Intake
- Municipal Wellhead (2) Indicates # of Wellheads

#### South Nation Source Protection Area

- Raisin Region Source Protection Area
- South Nation Source Protection Area
- Source Protection Area Boundary
  - Municipal Boundary
  - Major Lakes and Rivers

Created By: D.H. Date Produced: February 11, 2008 Version: 0.1 Draft

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### 5.0 Scope of Work

The work required under the *Clean Water Act* consists of two main products: assessment reports and source protection plans. For the Raisin-South Nation Source Protection Region, two assessment reports and two source protection plans will be created, one for each of the source protection areas shown on Map 2 and Map 3.

The drinking water systems that can be included in the source protection planning process include:

- Municipal residential drinking water systems;
- Other drinking water systems (e.g. non-municipal systems, clusters of private wells);
   and
- First Nations drinking water systems.

Details on the tasks and status of current technical work are found in appendix A for the assessment reports and appendix B for the source protection plans. It is important to note that the Ministry of the Environment is expected to provide guidance on other ie. non-municipal drinking water systems in spring 2008. Likewise, the regulations and Director's rules on the assessment report are expected to be complete in summer 2008.

The terms of reference will be amended as required once Ministry of the Environment guidance and regulations are finalized.

### 5.1 Communications:

Communications in the Raisin-South Nation Region is guided by two principles; accountability and transparency. These two principles are important to all our stakeholder engagement processes as they contribute to the fairness and legitimacy of the program.

#### Accountability

Whatever the consultation tools and process used to engage stakeholders in drinking water source protection, the Source Protection Committee is responsible to the participants. Expectations of involvement and how the participants' contribution will be used need to be clearly articulated and met. Stakeholder engagement expectations need to be clearly defined, understood and met. The tools and activities used by staff of the stakeholder engagement processes need to fit the level of participation sought and promised. If participants are being asked to provide input, then staff and the Source Protection Committee are accountable to the participants having promised that their input will receive due attention and consideration.

#### **Transparency**

Transparency relates to the procedures for engagement. Clear descriptions and instructions on how stakeholders can become involved and participate in the source protection planning process are needed. The roles and responsibilities of all parties need to be clearly defined and shared with participants at the outset. Stakeholders need to be informed up front of the how, where, when, and what is to be expected of their

contribution and participation. Processes for considering the contributions and concerns brought forward by stakeholders need to be clearly outlined so participants in events understand how their concerns will inform decision-making. Mechanisms also need to be developed and employed to ensure people throughout the watershed have access to source protection planning engagement follow-up materials: reports, decisions, etc. The source protection website <a href="https://www.yourdrinkingwater.ca">www.yourdrinkingwater.ca</a> is an excellent tool to achieve this. Making sure our Source Protection Authorities, municipal partners and other groups or organizations are also kept informed of their role and program updates is also important and staff have made ourselves available for presentations and updates when requested.

### 5.2 Resources: The Source Protection Partners

The Raisin-South Nation Source Protection Region organizational framework is shown in Figure 3. This network of partners is a combination of existing partnerships that have been working successfully on watershed management for decades and new partnerships that have been initiated to achieve the requirements of the *Clean Water Act*.

#### Source Protection Committee

The Source Protection Committee is responsible to guide the development of the assessment reports and the source protection plans. The Source Protection Committee will work in cooperation with the source protection authorities to establish work plans and set goals and priorities for source water protection. The Source Protection Committee will use geographically based working groups to guide technical study requirements, ensure input from local municipalities and provide advice on source protection plan requirements.

#### Source Protection Authorities and Management Committee

The Raisin and South Nation Source Protection Authorities are responsible for managing the funding requirements for source water protection and to provide input on the Source Protection Committee products like the assessment report and source protection plans. The Source Protection Authorities consist of the existing Board of Directors for the conservation authorities and members from municipalities outside of Conservation Authority jurisdiction. Currently, the South Nation Source Protection Authority contains the same membership as the Board of Directors, whereas the Raisin Region Source Protection Authority has a member representing the portion of Prescott and Russell that lies within the source protection area. The two Source Protection Authorities have agreed to use a Management Committee as a partnership mechanism to manage the day-to-day operations of the source protection program. Through the Management Committee, the Source Protection Authorities provide the technical resources and staffing that the Source Protection Committee needs to achieve the requirements of the *Clean Water Act*.

### Working Groups

Working groups were established at the outset of the municipal technical studies to guide and oversee the technical studies including project initiation, review and comment on draft reports and deliverables and feedback for the project lead to incorporate into the final report. Five geographically based working groups have been created. They include: the St. Lawrence Working Group, the Ottawa River Working Group, the South Nation

River Working Group, the Garry River Working Group and the Groundwater Working Group. All municipalities with residential drinking water systems are represented on one or more working groups as well as representatives from other stakeholder groups.

The Source Protection Committee will establish Ad Hoc Working Groups from time to time to deal with specific issues.

### **Watershed Committees**

The four long standing watershed committees have been working with their respective conservation authority for several years and form the backbone of source water protection initiatives in the region. Through their various expertise and mandates, the watershed committees will be a resource for the Source Protection Committee to draw on as the source protection plans are developed.

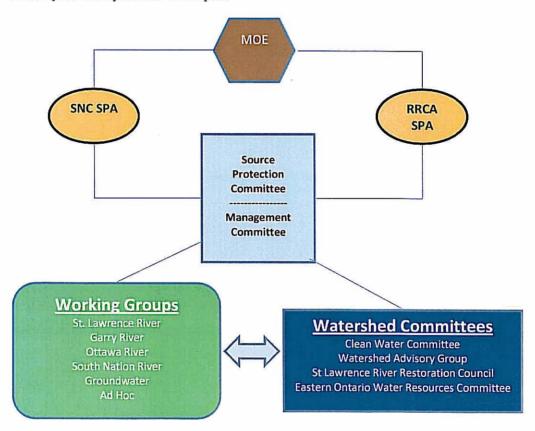


Figure 3. Source Protection Region Organizational Framework

Staff support for the development of source protection plans includes professional staff from both the Raisin Region and South Nation conservation authorities. Staff positions dedicated to the source protection program includes a regional project manager, hydrogeologist, water resources engineer, communication specialist, project coordinators, GIS specialists, database specialist and a Source Protection Committee administrative coordinator.

### 5.3 Assessment Reports

The assessment report is a legislated requirement in the Clean Water Act 2006 that the Source Protection Committee must develop for each Source Protection Area within the Source Protection Region. Although the Clean Water Act provides a general framework for the assessment report, the specific details regarding content and methods will only be available once the province develops and passes a regulation. The anticipated date for a final regulation on the assessment report is June 2008.

In its simplest form, the assessment report will be a summary of the general watershed characteristics, a summary of the municipal technical studies showing the location of vulnerable areas as well as a list of the water quality and quantity risks around municipal drinking water systems. Watershed characteristics have been studied under the watershed characterization process and water budget activities across the entire Source Protection Region. Based on this regional information, it is anticipated that both assessment reports will have similar sections on regional characteristics. As for specific drinking water systems, all of the municipal systems in the Raisin-South Nation Source Protection Region are currently being studied.

Table 1 and Table 2 outline the municipalities or portion of municipalities that lie within each of the Source Protection Areas and the municipal residential drinking water systems that currently exist. All of the municipal systems listed in these tables are currently being studied and are included in the cost estimates in Appendix A.

Appendix A outlines the tasks required for the assessment reports including a description of the task, the lead for the task and whether this has been confirmed, cost estimate and timelines. Due to the strong relationship between the conservation authorities and local municipalities, all of the work completed to date has been led by the Raisin and South Nation source protection authorities. Municipal Council resolutions have been provided to confirm the current lead role of the source protection authorities. Where a task has not been initiated, the lead needs to be confirmed through the development of the terms of reference.

Once the terms of reference has been approved by the MOE, the Source Protection Committee has one year to complete the assessment report for each of the source protection areas.

### 5.4 Source Protection Plans

The source protection plan is a legislated requirement in the *Clean Water Act* that the Source Protection Committee must develop for each Source Protection Area within the Source Protection Region. Although the *Clean Water Act* provides a general framework for the source protection plan, the specific details regarding content and methods will only be available once the province develops and enacts a regulation. The anticipated date for a final regulation on the source protection plan is spring 2009.

The source protection plans will be policy documents that address actions required to protect and enhance drinking water in the Source Protection Region. The Source Protection Committee will establish criteria for policy development, priority areas based on the assessment report, monitoring and implementation requirements. The Raisin-South Nation Source Protection Committee has specifically included the development of policies that address funding requirements for the implementation of source protection plans on private land. The Source Protection Committee also recognizes the importance of working with local municipalities on the development of policies which will influence official plans and zoning by-laws.

The development of the source protection plans for the Raisin Region and South Nation Source Protection Areas will be guided by the same resources identified in the assessment report scope of work. It is anticipated that the roles may shift slightly for some of the stakeholders involved. For instance, as the technical studies are completed for the municipal residential drinking water systems, the working groups may expand their membership to include planners and decision makers who can assist with providing advice to the Source Protection Committee on how to incorporate technical information into source protection plans.

In developing Source Protection Plans, the Raisin-South Nation Source Protection Committee (SPC) intends to propose policies which are environmentally protective, effective, economical and fair to local communities and stakeholders.

While the SPC recognizes the Clean Water Act (CWA) does not allow compensation for affected stakeholders, it has entrenched in law a financial assistance program called the Ontario Drinking Water Stewardship Program (ODWSP). The ODWSP currently has committed dollars until 2011 for early actions ahead of approved source protection plans. The CWA does state the intent of the ODWSP is to provide financial assistance to persons whose activities or properties are affected by the CWA.

The Raisin-South Nation SPC has been and will continue to pressure the province to provide adequate funding to the ODWSP beyond 2011 in order to provide the necessary financial assistance to impacted property owners in accordance to the guiding principles of the Advisory Panel on the Ontario Drinking Water Stewardship Program.

More specifically:

 "Proposed Principle: The Stewardship Program should ensure sustainable financial assistance for source protection over the long-term while also demonstrating continuous improvement in program design, delivery and results. <sup>1</sup>

• "Panel members considered that this was strong rationale for having differences in higher funding amounts and/or percentage maximums for project required under the CWA. In fact, for the highest level of threat, there should be the flexibility to allow up to 100 per cent funding in exceptional circumstances (e.g., demonstrated financial hardship), though this is not expected to be the general rule. Exceptions that might also qualify for a 100 per cent cost share could be measures that provide no benefit to the property owner"<sup>2</sup>

Appendix B highlights the principle tasks required for the creation of source protection plans. Through the review of the terms of reference, feedback will be requested from local municipalities on the roles and implementation of these tasks. Due to the absence of the source protection plan regulation, cost estimates and timelines have not been finalized. Only general timelines can be set at this point in the process. The overall timelines are reflected in Figure 4, the multi-year schedule which provides a schematic of the start date and completion date for the major source protection tasks.

# 6.0 List of Matters that Affect Other Source Protection Committees

The Raisin-South Nation Source Protection Region is the most eastern region in the province and is bordered by the Mississippi-Rideau Source Protection Region and the Cataraqui Source Protection Area. Several issues need to be discussed with each of the neighbouring Source Protection Committees. Even though the issues are similar, the geographic proximity of these two regions presents contextual differences that need to be addressed during the development of source protection plans. The list of matters is as follows:

# 6.1 Regional Groundwater Flow, Significant Recharge Areas and Vulnerability Mapping

There will be a need to discuss both technical findings and policy recommendations related to groundwater with neighbouring Source Protection Committees. Groundwater resources in Eastern Ontario may flow between surface watersheds, such that the protection of one aquifer is of common interest to two or more Source Protection Committees. The regional groundwater vulnerability deliverable for drinking water source protection will involve the review of previous work and a more accurate and upto-date map of highly vulnerable aquifers and significant groundwater recharge areas. As this technical exercise is conducted, it is essential that the mapping is compared and relatively compatible with the mapping in neighbouring Source Protection Regions. In some cases, the deep groundwater system in the Raisin-South Nation Source Protection

<sup>2</sup> Ibid., at page 17.

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<sup>&</sup>lt;sup>1</sup> Ontario, Ministry of the Environment, Ontario Drinking Water Stewardship Program Advisory Panel, *Advisory Panel on the Ontario Drinking Water Stewardship Program*, Final Report. at page 14 (Toronto, Queen's Printer for Ontario, 2007). also online at: <a href="http://www.ene.gov.on.ca/publications/6269e.pdf">http://www.ene.gov.on.ca/publications/6269e.pdf</a>>.

Region is recharged from outside the region. Therefore, understanding the techniques and outputs from neighbouring Source Protection Regions will help create a better representation of the groundwater system in our region.

### 6.2 Coordinated Approach to Surface Water Technical Studies

Since many of the municipal intakes in the Raisin-South Nation Source Protection Region are along the Ottawa River and St. Lawrence River, the Source Protection Committee will work with adjacent regions to achieve a coordinated approach for methods to delineate intake protection zones. Along the St. Lawrence River this means the Cataraqui Source Protection Area whereas the Mississippi-Rideau lies upstream along the Ottawa River.

### 6.3 Shared Municipalities

An important issue for discussion with neighbouring Source Protection Committees relates to the municipalities that lie in one or more source protection regions. Although each Source Protection Region will have distinct geographic features that will have an impact on the drinking water systems, municipalities have indicated from the beginning of the technical work that a coordinated approach to the development of well head protection areas and intake protection zones should be undertaken. In addition, once the plan development phase begins, shared municipalities anticipate reasonably consistent policies for drinking water source protection.

### 6.4 Information Management

In order to ensure accurate delineation of drinking water protection areas a comprehensive approach to information management must be undertaken. The maps and policies produced through source protection must be defensible and reproducible. With the amount of data that are required to produce the legislated requirements, it is important that neighbouring Source Protection Committees discuss information management approaches and aim to achieve similar standards and protocols for sharing information. As noted above, for municipalities that lie in more than one Source Protection Region, a consistent approach to data management will be expected.

### 6.5 St. Lawrence River Agreements

If a source protection area contains water that flows into the Great Lakes, the terms of reference for the preparation of an assessment report and source protection plan for the source protection area shall be deemed to require consideration of the following documents: the Great Lakes Water Quality Agreement, 1978, the Great Lakes Charter, 1978, and the Canada-Ontario Agreement, 2002. Since the Raisin-South Nation Source Protection Region drains into the Great Lakes system and is downstream of the Cataraqui and Quinte Source Protection Regions in eastern Ontario, it is advisable to discuss the implications of this requirement and the level of detail that is required to achieve the intent of the legislation. The status of the Ottawa River as a Great Lakes connecting channel is also a topic for discussion under this section of the Act.

### 6.6 Quebec-Ontario Agreements

The Raisin-South Nation Source Protection Region has an Ottawa River Working Group that was established at the beginning of the technical studies. The working group includes representatives from Quebec and Ontario and one of the issues is that a significant portion of several intake protection zones include land in Quebec. The City of Ottawa has initiated a study of their Ottawa River intake therefore it is prudent to discuss with the Mississippi-Rideau Source Protection Committee the approach for intake protection zone delineation, threats inventory and source protection plan development.

### 6.7 Emergency Response along Rivers

Contamination from spills upstream of a drinking water intake can pose a risk to the quality of the supply. Since the Raisin-South Nation Source Protection Region is downstream from the Cataraqui Source Protection Area on the St. Lawrence River and the Mississippi-Rideau Source Protection Region on the Ottawa River, lines of communication must be established between regions. The Source Protection Committees will develop policy to transfer their knowledge about spills to municipalities and other authorities who are responsible for emergency response.

### 6.8 Coordinated Approach to Plan / Policy Development

The Raisin-South Nation Source Protection Committee will work with adjacent Source Protection Committees to assess the costs and benefits of various policy alternatives for addressing risks and to share draft policies in an effort to develop clear and consistent source protection plans. This approach will assist municipalities that fall into two or more source protection areas by contributing to common policy approaches for risks that occur in more than one Source Protection Area.



### Appendix A Scope of Work: Assessment Report Raisin Region Source Protection Area

Assessment Report Tasks	Description	Load	Confirmed	Cost Estimate	Ti	meline
Project Management and Coordination Source Protection Committee	Undertaking administrative support, staffing, management support, and training necessary to provide project coordination for the assessment report components and direct support to the source protection committee.	RR-SN SPA	Y	1,404,500	Or	n-going
Communications	Local area engagement, outreach and creation of communications products that support the assessment report process.	RR-SN SPAs	Y	176,500	Or	n-going
nformation management	Conducting overall data management, data sharing agreements, standards, mapping, software and maintenance.	RR-SN SPA	Y	200,000	Or	n-going
	Identifying and describing watersheds in the source protection area. May include water quality analysis and peer review for water quality analysis.	RR-SN SPAs	¥	21.514	Oct-06	Mar-08
Valershed characterization	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					V120409900
Valer Budget						
Conceptual water budget	Describing the overall flow system dynamics for each watershed in the source protection area taking into consideration surface water and groundwater features, land cover (e.g. proportion of urban vs. rural uses), human-made structures (e.g. dams, channel diversions, water crossings), and water takings.	RR-5N SPAs	Y	80,908	Oct-06	Jun-08
nceptus) water budget	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					
	Conducting a tier 1 water budget analysis, stress assessment, and delineation of significant groundwater recharge areas.					
ier 1 water budget analysis and stress	May also include the identification of water quantity concerns and an analysis of uncertainty.	RR-SN SPAs	Y	65,012	May-07	Aug-08
	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					
	If determined necessary from a lier 1 water budget analysis and stress assessment, conducting a tier 2 water budget analysis and stress assessment, and refining the delineation of significant groundwater recharge areas.	RR-SN SPAs				
ier 2 water budget analysis and stress issessmert	May also include the identification of water quantity concerns and an analysis of uncertainty.		N	150,000	Jun-06	Dec-09
communications  Information management  Vatershed characterization  Vater Budget  Conceptual water budget  Information management  Vater Budget  Conceptual water budget  Information water budget  Information water budget  Information water budget  Information water water  Information water  In	Details on how to complete this tack will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					
	If determined necessary from a tier 2 water budget analysis and stress assessment, conducting a tier 3 water budget analysis and water quantity risk assessment.					
ier 3 water budget analysis and water quantity risk	May include identifying significant, moderate and low water quantity threats,	RR-SN SPA	N	tbd	lbd	thd
ssessment	May also include consultation with property owners/residents/stakeholders impacted by a significant drinking water threat scoring and an analysis of uncertainty.					
	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.				1 1	



### Appendix A Scope of Work: Assessment Report Raisin Region Source Protection Area

Assessment Report Tasks	Description	Lead	Confirmed	Cost Estimate		mellno
Regional Groundwater Vulnerability						
	Defineating the location and extent of highly vulnerable aquifers in the source protection area and applying vulnerability scores.					
elineate Highly Vulnerable Aquifers (HVA)	An uncertainty analysis may be included in this task.	RR-SN SPAs	Y	6,666	Sep-07	Oct-0
	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed					
dentifying issues, inventorying threats and	Listing and describing drinking water quality issues, inventorying threats and assessing hazards (including uncertainty analysis) in the highly vulnerable aquifers.	RR-SN SPAs	٠,	13,333	Sep-08	Mar-0
assessing hozards in HVAs	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					
	Identifying any significant, moderate, low, and negligible drinking water threats, undertaking an issues evaluation, and analysing uncertainty in highly vulnerable aquifers.	RR-SN SPAs	Y	3.333	Sep-08	Mar-0
Assessing risks in HVAs	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.	ALL SURVEY		101000		
Delineate Significant Groundwater Recharge Areas	Applying vulnerability scores to significant groundwater recharge areas in the source protection area (desineated in the water budget process).	RR-SN SPAs	v	6 566	5ep-07	Oct-Of
(SGRA)	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.	Tur-cur ou / u	,			
Identifying issues, inventorying threats and	Listing and describing drinking water quality issues, inventorying threats and assessing hazards (including uncertainty analysis) in the significant groundwater recharge areas.	RR-SN SPAs	Y	11,956	Sep-08	Mar-O
assessing hazards in SGRAs	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.	181,031,011		2.01.00		0.000000
Assessing risk in SGRAs	identifying any significant, moderate, low, and negligible drinking water threats, undertaking an issues evaluation, and analysing uncertainty in significant groundwater recharge areas.	RR-SN SPAs	Y	3,333	Sep-08	Mar-0
•	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					
Hunicipal Residential Orinking Water Systems on Groundwater						
	Delineating the location and extent of the vulnerable area around a drinking water system in the source protection area and applying a vulnerability score.					
Delineate Wellhead Protection Areas (WHPA)	Uncertainty analysis and peer review may be required. In addition, consultation with property owners/residents/stakeholders affected by the defineation and scoring for these vulnerable areas may be required.	RR-SN SPAs	Y	213,571	Jul-06	Sep-O
	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					
dentifying issues, inventorying threats and	Listing and describing drinking water quality issues, inventorying threats and assessing hazards (including uncertainty analysis) in wellhead protection areas.	RR-SN SPAs	Y	83,200	Jul-06	Dec-0
assessing hazards in WHPAs	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.	2017/2006/27/2001				
	Identifying any eignificant, moderate, low, and negligible drinking water threats, undertaking an issues evaluation, and analysing uncertainty in wellhead protection areas. Tier 2 risk assessments will be conducted for all significant risks identified in Tier 1.		¥			Dec-0
Assess risk in WHPAs	Consultation may be required with stakeholders impacted by significant drinking water threats scoring.	RR-SN SPAs	4	39,000	Jul-06	Dec-u
	Details on how to complete this tack will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					
Consultation on the overall proposed assessment	Meeting the legislative and regulatory requirements on the consultation and aubmission process of the proposed assessment report.	RR-SN SPAs	Y	3,333	Sep-08	Dac-0
Consultation on the overall proposed assessment report	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed,	RA-SIT GEAS		2,333	Cep-co	Duc-c



#### Appendix A Scope of Work: Assessment Report Raisin Region Source Protection Area

Assessment Report Tasks	Description	Lead	Confirmed	Cost Estimate	Ti	meline
Municipal Residential Drinking Water Systems on Surface Water						
	Delineating the location and extent of the vulnerable area around a drinking water system in the source protection area and applying a vulnerability score.					
Delineate Irrake Protection Zones (IPZ)	Uncertainty analysis and peer review may be required. In addition, consultation with property owners/residents/stakeholders affected by the defineation and scoring for these vulnerable areas may be required.	RR-SN SPAs	Y	312,857	Jul-06	Apr-08
	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					
dentifying issues, inventorying (tyests and	Listing and describing drinking water quality issues, inventorying threats and assessing hazards (including uncertainty analysis) in intake protection zones.	RR-SN SPAs	Y	197,862	Jul-06	Oct-08
assessing hazards in IPZs	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					
	Identifying any significant, moderate, low, and negligible drinking water threats, undertaking an issues evaluation, and analysing uncertainty in intake protection zones. Tier 2 risk assessments will be conducted for all significant risks identified in Tier 1.					
Assess risk in IPZs	Consultation may be required with stakeholders impacted by significant drinking water threats scoring.	RR-SN SPAs	Y	79,923	Jul-06	Oct-05
	Consultation with adjacent source protection areas or regions may also be required for shared Great Lakes drinking water issues.					
	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed					
Consultation on the overall proposed assessment	Meeting the legislative and regulatory requirements on the consultation and submission process of the proposed assessment report.	RR-SN SPAs		3 333	Sep-08	Dec-09
eport	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.	141.41.41.74				
	Under the Clean Water Act municipal councils may include non-municipal drinking water systems in the source protection plans by resolution.					
	In the Raisin-South Nation SPR there are extensive non-municipal systems that could potentially be included.					
	To date, local municipalities have been requested to identify any systems that they may be considering to include.			70.000	16.4	
Yon-Municipal Drinking Water Systems	The Ministry of the Environment is currently preparing a guidance document on the implications for including these systems (i.e. cost, liability etc.).	RR-SN SPAs	N	6,606	tbd	tbd
	It is anticipated that most municipalities will wait until the provincial guidance is available before making a decision. The Source Protection Committee and Source Protection staff will work with municipalities to assess potential non-municipal systems in accordance with the provincial guidance.					
	The terms of reference can be amended to include these systems at a later date.					
	Any municipal residential drinking water sytems that may be partially or wholly taken off-line (i.e. not supplying municipal water) within the next 5 years are not to be included in the source protection plan.					
Exempled Systems	Municipalities have been requested to identify any of these systems and to forward the council resolution to the SPR staff.	nta	N	rs/a	rva	rVa
	For example, the Plantagenet surface water intake will be off-line, therefore it will not be studied for threats and risk assessment.					
	Total Cos	i Estimate for Ass	essment Report	3,091,176		
	Total Cos	i Esilmale for Ass	essment Report	3,091,176	ll	
						Pi

# Appendix A Scope of Work: Assessment Report South Nation Source Protection Area

Assessment Report Tasks	Description	Lead	Confirmed	Cost Estimate	Tim	eline
	Undertaking administrative support, staffing, management support, and training necessary to provide project coordination for the assessment report components and direct support to the source protection committee.	RR-SN SPAs	Y	1,404,500	On-	going
Communications	Local area engagement, outreach and creation of communications products that support the assessment report process.	RR-SN SPAs	Y	176,500	On-	going
information management	Conducting overall data management, data sharing agreements, standards, mapping, software and maintanance.	RR-SN SPAs	Y	200,000	On-	going
	Identifying and describing watersheds in the source protection area. May include water quality analysis and peer review for water quality analysis.	RR-SN SPAs	Y	21,514	Oct-06	Mar-08
Watershed characterization	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					
Nater Budget						
Conceptual water budget	Describing the overall flow system dynamics for each watershed in the source protection area taking into consideration surface water and groundwater features, land cover (e.g. proportion of urban vs. rural uses), human-made structures (e.g. dams, channel diversions, water crossings), and water takings.	RR-SN SPAs	Υ	177,817	Oct-06	Jun-08
	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.		-			
	Conducting a tier 1 water budget analysis, stress assessment, and delineation of significant groundwater recharge areas,	RR-SN SPAs				
Fier 1 water budget analysis and stress assessment	May also include the identification of water quantity concerns and an analysis of uncertainty,		٧	130,024	May-07	Aug-08
	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed,					
	If determined necessary from a tier 1 water budget analysis and stress assessment, conducting a tier 2 water budget analysis and stress assessment, and refining the delineation of significant groundwater recharge areas.					
Fier 2 water budget analysis and stress assessment	May also include the Identification of water quantity concerns and an analysis of uncertainty.	RR-SN SPA	N	150,000	Jun-08	Dec-09
r 2 water budget analysis and stress assessment	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					
	If determined necessary from a lier 2 water budget analysis and stress assessment, conducting a tier 3 water budget analysis and water quantity risk assessment.					
Fier 3 water budget analysis and water quantity risk	May include identifying significant, moderate and low water quantity threats.	RR-SN SPAs	N	ttod	tbd	tbd
	May elso include consultation with property owners/residents/stakeholders impacted by a significant drinking water threat scoring and an analysis of uncertainty.	RH-ON SPAS	20			-
	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					



# Appendix A Scope of Work: Assessment Report South Nation Source Protection Area

Assessment Report Tasks	Description	Lead	Confirmed	Cost Estimate	Tim	eline
Regional Groundwater Vulnerability						
	Defineating the location and extent of highly vulnerable aquifers in the source protection area and applying vulnerability scores.					
Delineate Highly Vulnerable Aquifera (HVA)	An uncertainty analysis may be included in this tesk.	RR-SN SPAs	Y	13,333	Sep-07	Oct-
	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed					
identifying issues, inventorying threats and	Listing and describing drinking water quality issues, inventorying threats and assossing hazards (including uncertainty analysis) in the highly vulnerable equifers.	RR-SN SPAs	Y	26,666	Sep-08	Mar-
assessing hazards in HVAs	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					38895
	Identifying any significant, moderate, low, and negligible drinking water threats, undertaking an issues evaluation, and analysing uncertainty in highly vulnerable equifors.	RR-SN SPAs	Y	8,008	Sep-08	Mar-
Assessing risks in HVAs	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.			1.595.552.1		
Delineate Significant Groundwater Recharge Areas	Applying vulnerability scores to significant groundwater recharge ereas in the source protection area (delineated in the water budget process).	RR-SN SPAs	Y	13.333	Sep-07	Oct-
SGRA)	Details on how to complete this tack will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.	THE STATE OF THE				
dentifying issues, inventorying threats and	Listing and describing drinking water quality issues, inventorying threats and assessing hazards (including uncertainty analysis) in the significant groundwater recharge areas.	RR-SN SPAs	Y	23,333	Sep-08	Mar-
assessing hazards in SGRAs	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.	I,II-GII GI AG		25,935	Copies	
Assessing risk in SGRAs	Identifying any significant, moderate, low, and negligible drinking water threats, undertaking an issues evaluation, and analysing uncertainty in significant groundwater recharge areas.	RR-SN SPAs	Y	6,666	Sep-08	Mar-
	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					_
Municipal Residential Drinking Water Bystems on Groundwater						
	Delineating the location and extent of the vulnerable area around a drinking water system in the source protection area and applying a vulnerability score.					
Delineate Wellhead Protection Areas (WHPA)	Uncertainty analysis and peer review may be required. In addition, consultation with property owners/residents/stakeholders affected by the delineation and scoring for these vulnerable areas may be required.	RR-SN SPA	Y	1,281,428	Jul-06	Feb
	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					
dentifying issues, inventorying threats and	Listing and describing drinking water quality issues, inventorying threats and assessing hazards (including uncertainty analysis) in wellhead protection areas.	RR-SN SPA	Ÿ	499,200	Jul-09	Mar-
esessing hazards in WHPAs	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.		8.			
	Identifying any significant, moderate, low, and negligible drinking water threats, undertaking an issues evaluation, and analysing uncertainty in wellhead protection areas. Tier 2 risk assessments will be conducted for all significant risks identified in Tier 1.					
Assess risk in WHPAs	Consultation may be required with stakeholders impacted by significant drinking water threats scoring.	RR-SN SPAs	Y	234,000	Jul-06	Sep-
	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.					
oncultation on the overall proposed assessment	Meeting the legislative and regulatory requirements on the consultation and submission process of the proposed assessment report.		Υ	6,066		
eport	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.	RR-SN SPAs	,	8,558	Oct-09	Jan-10
						Page



# Appendix A Scope of Work: Assessment Report South Nation Source Protection Area

	Description	Lead	Confirmed	Cost Estimate	Tim	reline
dunicipal Residential Drinking Water Systems or Jurface Water						
	Defineating the location and extent of the vulnerable area around a drinking water system in the source protection area and applying a vulnerability score.	RR-SN SPAs				T
Delineate Intake Protection Zones (IPZ)	Uncertainty analysis and peer review may be required. In addition, consultation with property owners/residents/stakeholders affected by the delineation and scoring for these vulnerable areas may be required.		Y	584,000	Jul-06	Apr-0
	Details on how to complete this lask will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.				1	
dentifying issues, inventorying threats and	Listing and describing drinking water quality issues, inventorying threats and assessing hazards (including uncertainty analysis) in intake protection zones,					
ssessing hazards in IPZs	Details on how to complete this lask will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.	RR-SN SPA	Y	399,342	Jul-06	Dec-C
	Identifying any significant, moderate, low, and negligible drinking water threats, undertaking an issues evaluation, and analysing uncertainty in intake protection zones. Tier 2 risk assessments will be conducted for all significant risks identified in Tier 1.					
ssess risk in IPZs	Consultation may be required with stakeholders impacted by significant drinking water threats scoring.	RR-SN SPA	Y	149,190	Jul-06	Jan-0
Assess risk in IPZs	Consultation with adjacent source protection areas or regions may also be required for shared Great Lakes drinking water issues.					
	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed					
onsultation on the overall proposed assessment	Meeting the legislative and regulatory requirements on the consultation and submission process of the proposed assessment report,	RR-SN SPAs				
port	Details on how to complete this task will be available in the Assessment Report regulation, Director's rules, and guidance when they are developed.		Y	6,066	Oct-09	Jan-1
	Under the Clean Water Act municipal councils may include non-municipal drinking water systems in the source protection plans by resolution.					
	In the Raisin-South Nation SPR there are extensive non-municipal systems that could potentially be included,					
	To date, local municipalities have been requested to identify any systems that they may be considering to include.					
on-Municipal Drinking Water Systems	The Ministry of the Environment is currently preparing a guidance document on the implications for including these systems (i.e. cost, liability etc.).	RR-BN SPAs	N	13,333	tbd	tbd
	It is anticipated that most municipalities will wait until the provincial guidance is available before making a decision. The Source Protection Committee and Source Protection staff will work with municipalities to assess potential non-municipal systems in accordance with the provincial guidance.					
	The terms of reference can be amended to include these systems at a later date,					
	Any municipal residential drinking water sytems that may be partially or wholly taken off-line (i.e. not supplying municipal water) within the next 5 years are not to be included in the source protection plan.					
	Municipalities have been requested to identify any of these systems and to forward the council resolution to the SPR staff.	n/a	n	n/a	n/a	n/a
	For example, the Plantagenet surface water intake will be off-line, therefore it will not be studied for threats and risk assessment,					
	ToblCoats	T				
	I viai Cu i	Sullette for Waser	ament Hepott	3,494,177		-



### Appendix B Scope of Work: Source Protection Plan Raisin Region Source Protection Area

Source Protection Plan Tosks	Description	Lead	Confirmed	Cost Estimate	Tim	eline
Project Management and Coordination	Undertaking administrative support, staffing, management support, and training necessary to provide project coordination for the source protection plan components and direct support to the source protection committee.	RR-SN SPAs	Y	770.192	On-	-going
Communications	Local area engagement, outreach and creation of communications products that support the source protection plan process.	RR-SN SPAs	Y	88,000	10	going
oformation Management	Conducting overall data management, data charing agreements, standards, mapping, software and maintenance.	RR-SN SPAs	Ÿ	50,000		-going
	Establishing evaluation criteria to assist with objectively deciding how policies will be considered in a transparent manner.	11111011111111				
stablish evaluation criteria for selecting olicies	Criteria may consider elements such as the natural, social, and economic environments, including health, cost-benefit considerations, and conformance with existing official plans.	SPC	Y	10 000	Mar-09	May-0
	Administrative priority setting and strategic planning for the management of the work required to complete the source protection plan based on results of risk assessments documented in the assessment report.					
dministrative priority setting of work equired to complete SPP based on risk paesaments in Assessment Report	It is anticipated that the number of significant threats, the distribution and location of the threats, etc., may guide the committee in how they will specifically create the plan (e.g. which threats in which vulnerable area will be addressed first), who will be the key players in the plan development, and how they wish to prioritize the work required.					
	Detailed requirements and guidance will be provided in the Source Protection Plan regulation and guidance document when they are developed.	SPC	Y	6,666	Mar-09	May-0
olicy development to address drinking	Policy development to address drinking water threats (where required and/or permissible in the Act and source protection plan regulation).			- 17		
vater threats (where required and/or permissible in Act/Regs)	Detailed requirements and guidance will be provided in the Source Protection Plan regulation and guidance document when they are developed.	SPC	Y	6,666	Sep-09	Mar-1
olicy development for monitoring (where	Policy development for monitoring activities (where required, advisable and/or permissible in the Act and source protection plan regulation), including determining who is responsible for implementing these policies.					
Act & Regs)	Detailed requirements and guidance will be provided in the Source Protection Plan regulation and guidance document when they are developed.	SPC	Y	6,666	Nov-09	May-1
olicy development for Great Lakes Hements (where required/permissible in Act	Policy development for Great Lakes associated elements (where directed by the Minister and required or permissible in the Act and source protection plan regulation), including monitoring policies to assist in implementing and determining the effectiveness of achieving Great Lake target(s) policies, determining who is responsible for implementing those policies, and determining the need to identify any of these policies as "designated Great Lakes policies".					
(Regs)	Detailed requirements and guidance will be provided in the Source Protection Plan regulation and guidance document when they are developed,	SPC	Y	13,333	Nov-09	Aug-1
	Establishing timelines for policy implementation after all policies for the SPP are developed, giving consideration to the policies developed, key players effected, capacity for implementation, the assessed insits, and natural, social, and economic considerations, including local community interestalneeds.					
mplementation	Detailed requirements and guidance will be provided in the Source Protection Plan regulation and guidance document when they are developed.	SPC	Y	6,666	Nov-10	Feb-1
	Consultation and submission process of the overall proposed source protection plan,					
onsultation on the overall proposed ource protection plan	Details on how to conduct the consultations on the overall proposed source protection plan will be provided in the Source Protection Plan regulation and guidance document when they are developed.	SPC .	Y	6,666	Feb-11	May-1
other Source Protection Plan Preparation asks	Additional lasks are to be discussed with the Source Protection Committee.	SPC	Y	6,668	thd	tbd
	Total Cost Estir	nate for Source	Protection Plan	971,521		
						Page 2



Source Protection Plan Tasks	Description	Lead	Confirmed	Cost Estimate	Tim	eline
Project Management and Coordination Source Protection Committee	Undertaking administrative support, staffing, management support, and training necessary to provide project coordination for the source protection plan components and direct support to the source protection committee.	RR-SN SPAs	٧	770.192	On-	apina
Communications	Local area engagement, outreach and creation of communications products that support the source protection plan process.	RR-SN SPAs	Υ	88,000	ones.	going
information Management	Conducting overall data management, data sharing agreements, standords, mapping, software and maintenance.	RR-SN SPAs	Y	50 000		pniap
Establish evaluation criteria for selecting	Establishing evaluation criteria to assist with objectively deciding how policies will be considered in a transparent manner.					1000100
policies	Criteria may consider elements such as the natural, social, and economic environments, including health, cost-benefit considerations, and conformance with existing official plans.	SPC	Y	10,000	Aug-09	Dec-09
	Administrative priority setting and strategic planning for the management of the work required to complete the source protection plan based on results of risk assessments documented in the assessment report.					
Administrative priority setting of work required to complete SPP based on risk assessments in Assessment Report	It is anticipated that the number of significant threats, the distribution and location of the threats, etc., may guide the committee in how they will specifically create the plan (e.g. which threats in which vulnorable area will be addressed first), who will be the key players in the plan development, and how they wish to prioritize the work required.					
	Detailed requirements and guidance will be provided in the Source Protection Plan regulation and guidance document when they are developed.	SPC	Y	13,333	May-09	Mar-10
Policy development to address drinking	Policy development to address drinking water threats (where required and/or permissible in the Act and source protection plan regulation).					
water threats (where required and/or permissible in Act/Regs)	Detailed requirements and guidance will be provided in the Source Protection Plan regulation and guidance document when they are developed.	SPC	Y	13,333	Jan-10	Jan-11
Policy development for monitoring (where equired, advisable and/or permissible in						
Act & Regs)	Detailed requirements and guidance will be provided in the Source Protection Plan regulation and guidance document when they are developed.	SPC	Y	13,333	May-10	May-11
Policy development for Great Lakes Haments (where required/permissible in Act & Regs)	Policy development for Great Lakes associated elements (where directed by the Minister and required or permissible in the Act and source protection plan regulation), including monitoring policies to acciet in implementing and determining the effectiveness of achieving Great Lake target(s) policies, determining who is responsible for implementing those policies, and determining the need to identify any of these policies as "designated Great Lakes policies".					
	Detailed requirements and guidance will be provided in the Source Protection Plan regulation and guidance document when they are developed,	SPC	Y	6,666	Oct-10	Jan-11
stablishing timelines for policy	Establishing timelines for policy implementation after all policies for the SPP are developed, giving consideration to the policies developed, key players affected, capacity for implementation, the assessed instr., and natural, social, and economic considerations, including local community interests/needs.					
mplementation	Detailed requirements and guidance will be provided in the Source Protection Plan regulation and guidance document when they are developed.	SPC	Y	13,333	Dec-11	Apr-11
	Consultation and submission process of the overall proposed source protection plan.					
Consultation on the overall proposed cource protection plan	Details on how to conduct the consultations on the overall proposed source protection plan will be provided in the Source Protection Plan regulation and guidance document when they are developed.	SPG	Y	13,333	May-11	Aug-11
Other Source Protection Plan Preparation Tasks	Additional tasks are to be discussed with the Source Protection Committee.	SPC	Y	13,333	thd	tbd
				alasta de salesta e		
	Total Cost Estin	nate for Source	Protection Plan	1,004,856		

AR: Assessment Report SPP: Source Protection Plan SPR: Source Protection Region

### Appendix C

### **Raisin-South Nation Source Protection Committee Members**

Category	Name	Representing
Chair	Claude Cousineau	Provincial Appointment
Municipal	Glenn Mackey	Leeds-Grenville
•	Chris McDonnell	Stormont, Dundas and Glengarry
	Mary McCuaig	Prescott-Russell
	Norm Levac	City of Cornwall
	Clive Doucet	City of Ottawa
Sector	Shawn McRae	Agriculture
	William Smirle	Agriculture
	Brian Powell	Agriculture
	Joel Potvin	Aggregates
	Margaret Taylor	Commercial/Industrial
Other	Ray Beauregard	Eastern Ontario Water
		Resource Committee
	Walter Oeggerli	St.Lawrence River
		Restoration Council
	Denis Perrault	Clean Water Committee
	Don Munro	General Public
	Tom Van Dusen	General Public
Liaisons	Mary Wooding	Ministry of the
	449 92 W	Environment
	Richard Sarazin	Eastern Ontario Health Uni
	Alton Blair	Raisin Region Source
		Protection Authority
	Lawrence Levere	South Nation Source
		Protection Authority

# Raisin-South Nation Source Protection Management Committee Members

Name	Representing
Alton Blair, Chair	Raisin Region Conservation Authority
Roger Houde	Raisin Region Conservation Authority
Bryan McGillis	Raisin Region Conservation Authority
Bill McKenzie	Raisin Region Conservation Authority
Ken Hill	South Nation Conservation
Floyd Dingwall	South Nation Conservation
Lawrence Levere	South Nation Conservation
Dennis O'Grady	South Nation Conservation
Claude Cousineau	Source Protection Committee Chair

# Appendix D – Clean Water Act References to Financial Assistance

The Clean Water Act, 2007 contains the following provisions related to financial assistance:

# Section 97 establishes the Ontario Drinking Water Stewardship Program with the following purpose:

- 97 (2) The purpose of the program is to provide financial assistance in accordance with the regulations to,
- (a) persons whose activities or properties are affected by this Act;
- (b) persons and bodies who administer incentive programs and education and outreach programs that are related to source protection plans; and
- (c) other persons and bodies, in circumstances specified in the regulations that are related to the protection of existing or future sources of drinking water. 2006, c. 22, s. 97 (2).

# Section 22 of the *Clean Water Act* sets out the required contents of a source protection plan including:

### Source protection plan - preparation

<u>22. (1)</u> The source protection committee for a source protection area shall, in accordance with the regulations and the terms of reference, prepare a source protection plan for the source protection area. 2006, c. 22, s. 22 (1).

### **Contents**

### Incentive programs; education and outreach programs

(7) Without limiting the generality of paragraphs 2 and 3 of subsection (2) and paragraphs 1 and 2 of subsection (6), a source protection plan may, in accordance with the regulations, set out policies governing incentive programs and education and outreach programs. 2006, c. 22, s. 22 (7).

# APPENDIX E - Detailed Information on Municipal Residential Drinking Water System(s) in the Raisin Region Source Protection Area

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220008408	GLEN ROBERTSON WELL SUPPLY	NORTH GLENGARRY, THE CORPORATION OF THE TOWNSHIP OF	NORTH GLENGARRY, THE CORPORATION OF THE TOWNSHIP OF	Groundwater	1
Number of Surface Water Intakes	Comments					
D	Services town of Glen	Robertson			-	

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	250002311	REDWOOD ESTATES WELL SUPPLY	SOUTH GLENGARRY, THE CORPORATION OF THE TOWNSHIP OF	SOUTH GLENGARRY, THE CORPORATION OF THE TOWNSHIP OF	Groundwater	1
Number of Surface Water Intakes	Comments					
0	Services community o	f Redwood Estates		(200 min)	2002-bigger - 1000	

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	260006867	LANCASTER WATER TREATMENT PLANT	SOUTH GLENGARRY, THE CORPORATION OF THE TOWNSHIP OF	SOUTH GLENGARRY, THE CORPORATION OF THE TOWNSHIP OF	Surface Water	0
Number of Surface Water Intakes	Comments					
1		cis (St. Lawrence River)				

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	210001861	GLEN WALTER WATER TREATMENT PLANT	SOUTH GLENGARRY, THE CORPORATION OF THE TOWNSHIP OF	SOUTH GLENGARRY, THE CORPORATION OF THE TOWNSHIP OF	Surface Water	0
Number of Surface Water Intakes	Comments					
1	Source St. Lawrence F					
	Services community of	f Glen Walter				

1	Source St. Lawrence I	River vall and town of St. Andrews West				
Number of Surface Water Intakes	Comments					
Existing	220001049	CORNWALL WATER TREATMENT PLANT	CORNWALL, THE CORPORATION OF THE CITY OF	CORNWALL, THE CORPORATION OF THE CITY OF	Surface Water	0
Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	260066417	LONG SAULT/INGLESIDE REGIONAL WATER TREATMENT PLANT	SOUTH STORMONT, THE CORPORATION OF THE TOWNSHIP OF	CANEAU WATER AND SEWAGE OPERATIONS INC.	Surface Water	o
Number of Surface Water Intakes	Comments					
1	Source St. Lawrence I					

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220001030	ALEXANDRIA WATER TREATMENT PLANT	NORTH GLENGARRY, THE CORPORATION OF THE TOWNSHIP OF	NORTH GLENGARRY, THE CORPORATION OF THE TOWNSHIP OF	Surface Water	0
Number of Surface Water Intakes	Comments					
1	Source Loch Garry, M	iddle Lake and Mill Pond				
	Services Town of Alex	andria				

### Detailed Information on Municipal Residential Drinking Water System(s) in the South Nation Source Protection Area

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	260006841	LIMOGES WELL SUPPLY	NATION MUNICIPALITY,THE CORPORATION OF THE	ONTARIO CLEAN WATER AGENCY (NANTICOKE HUB)	Groundwater	2
Number of Surface Water Intakes	Comments					
0	Wells are identified as Services the town of L					

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220008033	MOOSE CREEK WELL SUPPLY	NORTH STORMONT, THE CORPORATION OF THE TOWNSHIP OF	ONTARIO CLEAN WATER AGENCY (NANTICOKE HUB)	Groundwater	3
Number of Surface Water Intakes	Comments					
0	Wells are identified as Services the town of M					

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220001012	SOUTH DUNDAS REGIONAL WATER TREATMENT PLANT	SOUTH DUNDAS, THE CORPORATION OF THE TOWNSHIP OF	CANEAU WATER AND SEWAGE OPERATIONS INC.	Surface Water	0
Number of Surface Water Intakes	Comments					
1	Source St. Lawrence Services the towns of	River Morrisburg and Iroquois			345,000,000	3.

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220008051	NEWINGTON WELL SUPPLY	SOUTH STORMONT, THE CORPORATION OF THE TOWNSHIP OF	CANEAU WATER AND SEWAGE OPERATIONS INC.	Groundwater	2
Number of Surface Water Intakes	Comments					
0	Wells are identified a Services the town of					

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	210001736	PLANTAGENET WATER TREATMENT PLANT	ALFRED AND PLANTAGENET, THE CORPORATION OF THE TOWNSHIP OF	ONTARIO CLEAN WATER AGENCY (NANTICOKE HUB)	Surface Water	O
Number of Surface Water Intakes	Comments					
1	Source South Nation I System was studied for	River or vulnerability but has been decommission	oned			

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220001245	PRESCOTT WATER TREATMENT PLANT	PRESCOTT, THE CORPORATION OF THE SEPARATED TOWN OF	ONTARIO CLEAN WATER AGENCY (NANTICOKE HUB)	Surface Water	D
Number of Surface Water Intakes	Comments					
1	Source St. Lawrence F Services the town of P	River rescott and adjacent area of Edwardsburn	gh-Cardinal			

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	210000639	ROCKLAND WATER TREATMENT PLANT	CLARENCE- ROCKLAND, THE CORPORATION OF THE CITY OF	ONTARIO CLEAN WATER AGENCY (NANTICOKE HUB)	Surface Water	o
Number of Surface Water Intakes	Comments					
1	Source Ottawa River Services towns of Roc	kland, Hammond, St. Pascal de Bayon, C	heney and Bourget			

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	210002263	VARS WELL SUPPLY	OTTAWA, CORPORATION OF THE CITY OF	OTTAWA, CORPORATION OF THE CITY OF	Groundwater	2
Number of Surface Water Intakes	Comments					
0	Wells are identified as Services the town of V				*	

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	260004293	WENDOVER WATER TREATMENT PLANT	ALFRED AND PLANTAGENET, THE CORPORATION OF THE TOWNSHIP OF	ONTARIO CLEAN WATER AGENCY (ALFRED HUB)	Surface Water	0
Number of Surface Water Intakes	Comments					
1	Source Ottawa River Services the town of V	/endover		3,339463		

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	210000586	WINCHESTER WELL SUPPLY	NORTH DUNDAS, THE TOWNSHIP OF	ONTARIO CLEAN WATER AGENCY (NANTICOKE HUB)	Groundwater	6
Number of Surface Water Intakes	Comments					
0	Wells are identified as V Services the town of Wir					

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells		
Existing	260006971	BENNETT STREET WELL SUPPLY	LEEDS AND GRENVILLE, UNITED COUNTIES OF	EDWARDS/CARDIN AL ENVIRONMENTAL SERVICES	Groundwater	1		
Number of Surface Water Intakes	Comments							
0	Services 15 Unit apartm	Services 15 Unit apartment complex in the town of Spencerville						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	220003582	CARDINAL WATER TREATMENT PLANT	EDWARDSBURGH- CARDINAL, THE CORPORATION OF TOWNSHIP OF	EDWARDSBURGH/ CARDINAL ENVIRONMENTAL SERVICES	Surface Water	0
Number of Surface Water Intakes	Comments					
1	Source St. Lawrence Riv Services the town of Car				a to Control day 1. I day Commission	

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	210001219	CASSELMAN WATER TREATMENT PLANT	CASSELMAN, THE CORPORATION OF THE VILLAGE OF	CASSELMAN, tHE CORPORATION OF THE VILLAGE OF	Surface Water	0
Number of Surface Water Intakes	Comments					
ı	Source South Nation Riv Services the town of Car			, , , , , , , , , , , , , , , , , , , ,		

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells
Existing	210000728	CHESTERVILLE WELL SUPPLY	NORTH DUNDAS, THE TOWNSHIP OF	ONTARIO CLEAN WATER AGENCY (CHESTERVILLE HUB)	Groundwater	2
Number of Surface Water Intakes	Comments					
0	Wells are identified as P Services town of Cheste					

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells	
Existing	220008649	CRYSLER WELL SUPPLY	NORTH STORMONT, THE CORPORATION OF THE TOWNSHIP OF	ONTARIO CLEAN AGENCY (NANTICOKE HUB)	Groundwater	2	
Number of Surface Water Intakes	Comments						
0	Wells are identified as Production and Standby Services the town of Cryster						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells	
Existing	220004297	EMBRUN-RUSSELL- MARIONVILLE WELL SUPPLY	RUSSELL, THE CORPORATION OF THE TOWNSHIP OF	RUSSELL, THE CORPORATION OF THE TOWNSHIP OF	Groundwater	3	
Number of Surface Water Intakes	Comments						
0	Wells are identified as Wells 1 & 2 Services towns of Embrun, Marionville and Russell						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells	
Existing	210003912	FINCH WELL SUPPLY	NORTH STORMONT, THE CORPORATION OF THE TOWNSHIP OF	ONTARIO CLEAN WATER AGENCY (NANTICOKE HUB)	Groundwater	2	
Number of Surface Water Intakes	Comments						
0	Wells are identified as Wells 1 & 2 Services the town of Finch						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells	
Existing	220002832	HAWKESBURY WATER TREATMENT PLANT	HAWKESBURY, THE CORPORATION OF THE TOWN OF	HAWKESBURY, THE CORPORATION OF THE TOWN OF	Surface Water	0	
Number of Surface Water Intakes	Comments						
1	Source Ottawa River Services the towns of Hawkesbury, L'Original and Vankleek Hill						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells	
Existing	220002841	LEFAIVRE WATER TREATMENT PLANT	ALFRED AND PLANTAGENET, THE CORPORATION OF THE TOWNSHIP OF	ONTARIO CLEAN WATER AGENCY (NANTICOKE HUB)	Surface Water	o	
Number of Surface Water Intakes	Comments						
1	Source Ottawa River Services towns of St. Isodore, Alfred, St. Isodore and Plantagenet						

Drinking Water System Type (planned or existing)	Drinking Water System Number	Drinking Water System Name	Owner	Operating Authority	Source Water Type (surface, ground, both)	Number of Wells		
Existing	Not Available	SHADOW RIDGE WELL SUPPLY	City of Ottawa	City of Ottawa	Groundwater	2		
Number of Surface Water Intakes	Comments							
0	Services the community	Services the community of Shadow Ridge which is part of the town of Greely						