

01-23-NVSPA

Nottawasaga Valley Conservation Authority
Apr 28, 2023 at 11:00 AM EDT to Apr 28, 2023 at 12:00 PM EDT
8195 8th Line, Utopia ON, L0M 1T0

Agenda

1. Call to Order

2. Adoption of Agenda

Recommendation:

RESOLVED THAT: the agenda for the Nottawasaga Valley Source Protection Authority #01-23-NVSPA dated April 28, 2023 be approved.

3. Declarations of Pecuniary and Conflict of Interest

3.1. Minutes

Minutes of the Nottawasaga Valley Source Protection Authority 01-22-NVSPA dated April 22, 2022

Recommendation:

RESOLVED THAT: The Minutes of the Nottawasaga Valley Source Protection Authority 01-22-NVSPA dated April 22, 2022 be approved.

4. Correspondence

5. Presentations

5.1. Intro to SWP - Bill Thompson, Manager, Watershed Plans and Strategies, Lake Simcoe Region Conservation Authority

Bill Thompson, Manager, Watershed Plans and Strategies, Lake Simcoe Region Conservation Authority will conduct a presentation on Intro to SWP.

Recommendation:

RESOLVED THAT: the Board of Directors receive the presentation regarding the Introduction to Source Water Protection.

5.2. Annual Report - Sarah Thompson, Acting Source Water Coordinator

Sarah Thompson, Sarah Thompson, Acting Source Water Coordinator will conduct a presentation on the Annual Report.

Recommendation:

RESOLVED THAT: the Board of Directors receive the presentation regarding the Annual Report to the Ministry.

6. Reports

6.1. Staff Report No. 01-04-23-NVSPA from Lynn Dollin, Chair, South Georgian Bay Lake Simcoe Source Protection Committee

Recommendation:

RESOLVED THAT: That the report by South Georgian Bay Lake Simcoe Source Protection Committee Chair Lynn Dollin regarding Source Protection Committee updates be received for information.

6.2. Staff Report No. 02-04-23-NVSPA from Sarah Thompson, Acting Source Water Coordinator

Recommendation:

RESOLVED THAT: Staff Report No. 02-04-23-NVSPA regarding the 2022 Source Water Protection Annual Report to the Ministry be received for information.

6.3. Staff Report No. 03-04-23-NVSPA from Bill Thompson, Manager, Watershed Plan and Strategies, Lake Simcoe Region Conservation Authority

Recommendation:

RESOLVED THAT: Staff Report No. 03-04-23-NVSPA regarding the Source Protection Plan amendments be received for information.

7. Other Business

8. Adjourn

Recommendation:

RESOLVED THAT: the Nottawasaga Valley Source Protection Authority meeting adjourn at _____, to meet again at the call of the Chair.



01-22-NVSPA Minutes
Nottawasaga Valley Conservation Authority
April 22, 2022 at 9:00 AM EDT

Attendance

Members Present:

Cllr. Donna Jebb, New Tecumseth (Town); Cllr. Cathy Keane, Oro-Medonte (Township); Vice-Chair Gail Little, Amaranth (Township); Cllr. Andrea Matrosovs, Blue Mountains (Town); Chair Mariane Mcleod, Collingwood (Town); Cllr. Margaret Mercer, Melancthon (Township); Cllr. Rob Nicol, Innisfil (Town); Cllr. Dane Nielsen, Grey Highlands (Municipality); Mayor Floyd Pinto, Adjala Tosorontio (Township); Cllr. George Watson, Wasaga Beach (Town); Cllr. Thom Paterson, Clearview (Township);

Members Absent:

Deputy Mayor Michael Smith, Essa (Township); Mayor Don Allen, Springwater (Township); Cllr. Raj Sandhu, Bradford West Gwillimbury (Town); Cllr. Walter Benotto, Shelburne (Town); Cllr. Shirley Boxem, Mulmur (Township); Cllr. Gary Harvey, Barrie (City); Cllr. Ralph Manktelow, Mono (Town);

NVCA Staff:

Sheryl Flannagan, Director, Corporate Services; Doug Hevenor, Chief Administrative Officer; Chris Hibberd, Director, Watershed Management Services; Byron Wesson, Director, Conservation Services; Ryan Post, Manager, Watershed Science; Kerry Jenkins, Administrative Assistant/Recorder

Guests:

Lynn Dollin, Chair, South Georgian Bay Lake Simcoe Source Protection Committee; Bill Thompson, Project Manager, South Georgian Bay Lake Simcoe Source Protection Region.

1. Call to Order

Chair McLeod called the meeting to order at 10:17am

2. Adoption of Agenda

Recommendation:

RES: 01-22

Moved by: Cllr. George Watson

Seconded by: Cllr. Cathy Keane

RESOLVED THAT: the agenda for the Nottawasaga Valley Source Protection Authority #01-22-NVSPA dated April 22, 2022 be approved.

Carried;

3. Declarations of Pecuniary and Conflict of Interest

3.1. Minutes

Minutes of the Nottawasaga Valley Source Protection Authority NVSPA-01-2021 dated April 23, 2021.

Recommendation:

RES: 02-22

Moved by: Cllr. Margaret Mercer

Seconded by: Cllr. Andrea Matrosovs

RESOLVED THAT: the minutes of the Nottawasaga Valley Source Protection Authority (NVSPA-02-21) dated April 23, 2021 be approved.

Carried;

4. Correspondence

There were no correspondence at this time.

5. Presentations

Ryan Post, Manager, Watershed Science to conduct a presentation regarding the Annual Report to the Ministry - Progress Made in Protecting Sources of Drinking Water

Recommendation:

RES: 03-22

Moved by: Mayor Floyd Pinto

Seconded by: Cllr. Rob Nicol

RESOLVED THAT: the Board of Directors receive the presentation regarding the Annual Report to the Ministry - Progress Made in Protecting Sources of Drinking Water.

Carried;

6. Reports

6.1. Staff Report No. 01-04-22-NVSPA from Lyn Dollin, Chair - South Georgian Bay Lake Simcoe Source Protection

Recommendation:

RES: 04-22

Moved by: Cllr. Thom Paterson

Seconded by: Cllr. George Watson

RESOLVED THAT: That the report by South Georgian Bay Lake Simcoe Source Protection Committee Chair Lynn Dollin regarding Source Protection Committee updates be received for information.

Carried;

6.2. Staff Report No. 02-04-22-NVSPA from Ryan Post, Manager, Watershed Science

Annual Source Water Protection Progress Report to the Ministry by Ryan Post, Manager Watershed Science, Watershed Management Services, Nottawasaga Valley Conservation Authority.

Recommendation:

Please see the above presentation for the approval.

6.3. Staff Report No. 03-04-22-NVSPA from Bill Thompson, Project Manager, South Georgian Bay Lake Simcoe Source Protection Region.

Source Protection Plan amendments submitted by Bill Thompson, Project Manager, South Georgian Bay Lake Simcoe Source Protection Region.

Recommendation:

RES: 05-22

Moved by: Cllr. Dane Nielsen

Seconded by: Cllr. Cathy Keane

RESOLVED THAT: Staff Report No. 03-04-22-SPA regarding amendments to the South Georgian Bay Lake Simcoe Source Protection Plan submitted to the Minister of Environment, Conservation and Parks for approval be received.

Carried;

7. Other Business

There were no other business.

8. Adjourn

Recommendation:

RES: 06-22

Moved by: Cllr. Donna Jebb

Seconded by: Cllr. George Watson

RESOLVED THAT: the Nottawasaga Valley Source Protection Authority meeting adjourn at 10:57am, to meet again at the call of the Chair.

Carried;

Source Water Protection

South Georgian Bay Lake Simcoe Region

Sourcewater protection – a partnership to protect municipal drinking water sources

Bill Thompson

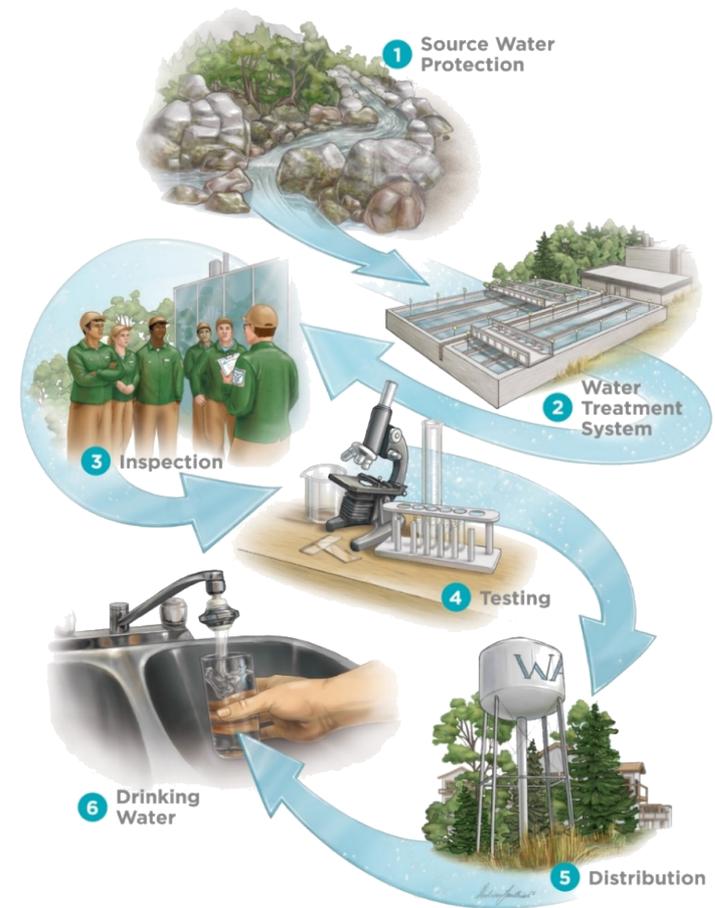
Manager, Watershed Plans and Strategies



Water
is life.
Protect
Yours.

What is Source Water Protection?

- Contamination of Walkerton municipal water supply in 2000. Seven deaths; thousands left with severe, long term illnesses.
- Justice O'Connor's inquiry: multi-barrier approach to protecting drinking water
- The purpose of the Clean Water Act is to **protect existing and future sources of drinking water** from contamination or depletion.
- The **Drinking Water Source Protection Program** is a multi-stakeholder, collaborative, locally-driven process to protect existing and future municipal residential drinking water sources



South Georgian Bay - Lake Simcoe Source Protection Region

- Four watersheds
 - Lake Simcoe
 - Black River
 - Nottawasaga Valley
 - Severn Sound
- 52 municipalities
- 3 First Nation communities
- 284 municipal wells
- 16 surface water intakes



Roles and responsibilities

Source Protection Committee

- Develop policies in the Source Protection Plan
- Revise policies, when required
- Report annually on implementation progress

Source Protection Staff

- Support deliberations of the Committee
- Coordinate amendments to Plan
- Support implementing bodies
- Coordinating funding agreements

Source Protection Authorities

- Endorse plan, and any amendments
- Appoint members to the Source Protection Committee
- Review annual implementation report

MECP

- Approve the plan and any amendments
- Some obligations to implement policies

Implementing bodies

- Includes municipalities, Province, Source Protection Authorities
- Legal obligations to implement the Plan

Vulnerable areas

- Wellhead protection areas
 - Centred around municipal wells
- Intake protection zones
 - Centred around surface water intakes



The designated activities

- Municipal activities
 - Waste management
 - Sewage
 - Storage and application of road salt
 - Snow storage
- Agricultural activities
 - Storage and application of manure, fertilizer, pesticides
 - Pasturing livestock
- Industrial activities
 - Organic solvents
 - Dense non-aqueous phase liquids
 - Fuel Handling and Storage
 - Liquid hydrocarbon pipelines
- Water quantity
 - Water taking
 - Disruption of groundwater recharge

The Source Protection Plan

- Best available science
- Stakeholder driven
- Legally binding



Water *is* life. Protect Yours.

The role of this Board:

- Appoint members to the Source Protection Committee
- Endorse amendments to the Source Protection Plan
- Review annual report on implementation, support implementation where necessary

Thank you

Water
is life.
Protect
Yours.



Water *is life.* **Protect** *Yours.*

Annual Report to the Ministry - Progress Made in Protecting Sources of Drinking Water

Sarah Thompson, Acting Source Water
Coordinator

April 28, 2023

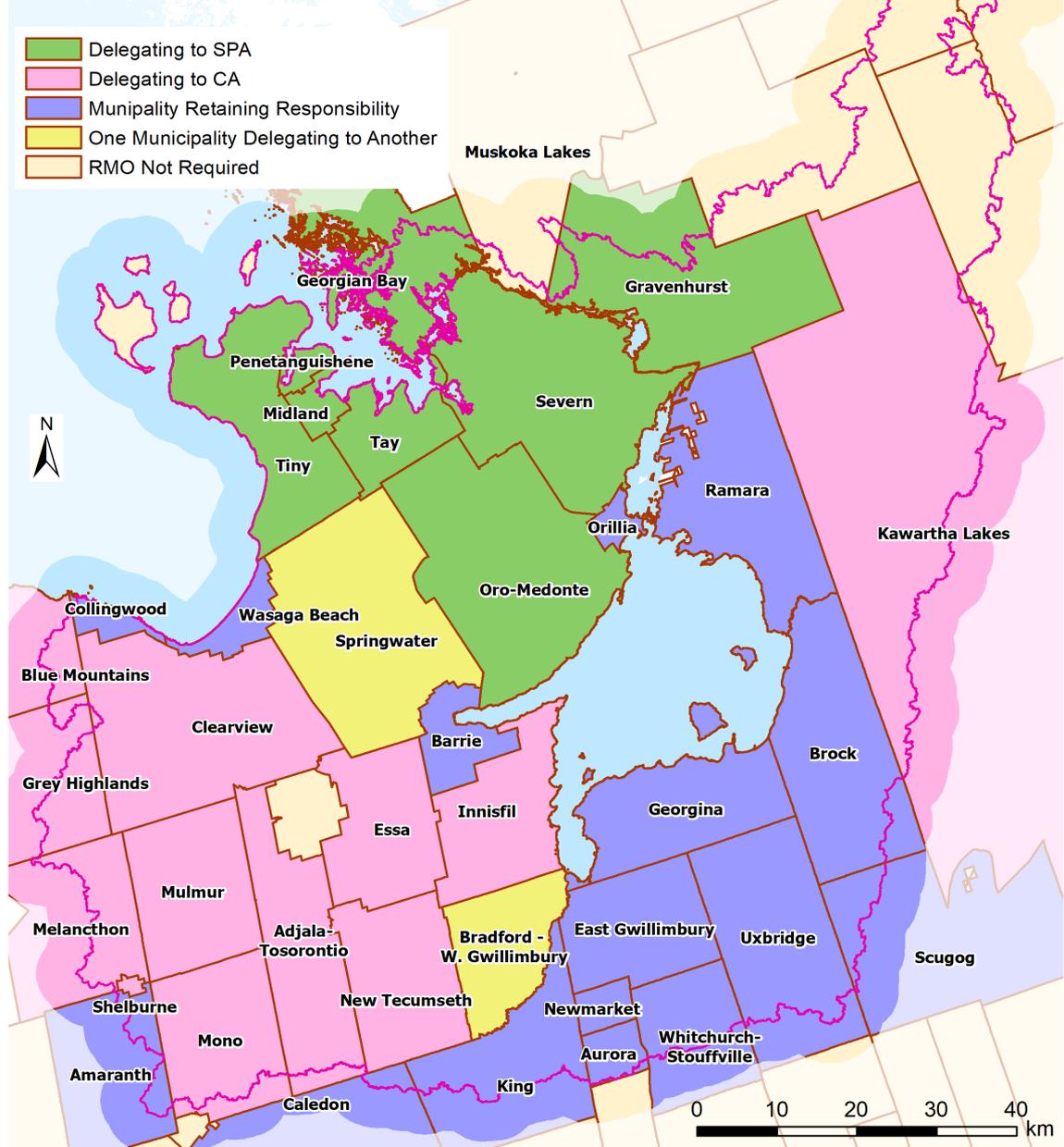


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Presentation Outline

- Objectives of Annual Reporting
- Progress Update (Risk Management Plans, Official Plan Amendments, Septic Inspections, and Prescribed Instruments)
- Potential Issues
- Next Steps
- Source Protection Committee's Comment on Progress
- Questions?

Risk Management Official Status



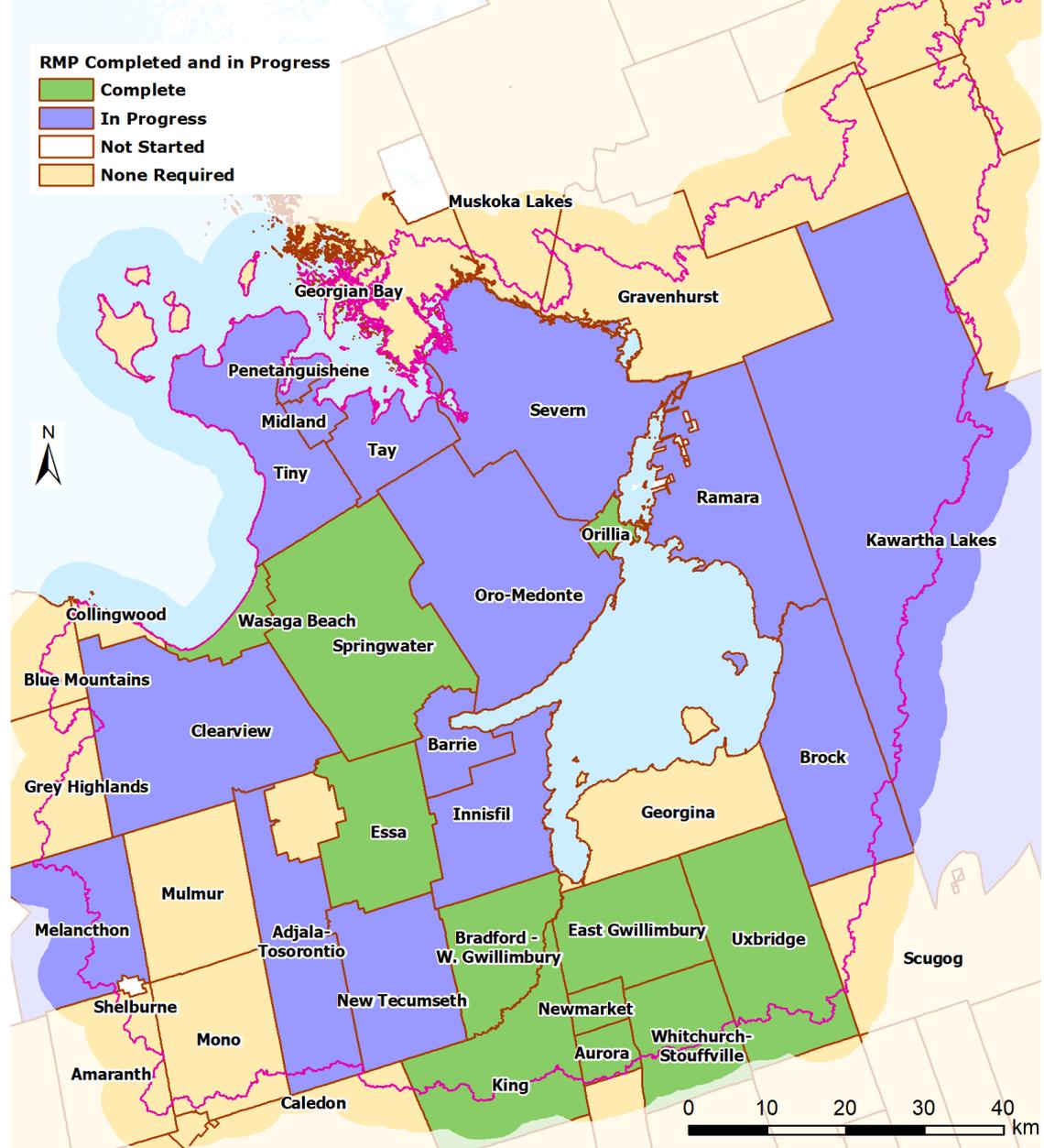
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Risk Management Plans Progress to Date (Completed and In-Progress RMPs)

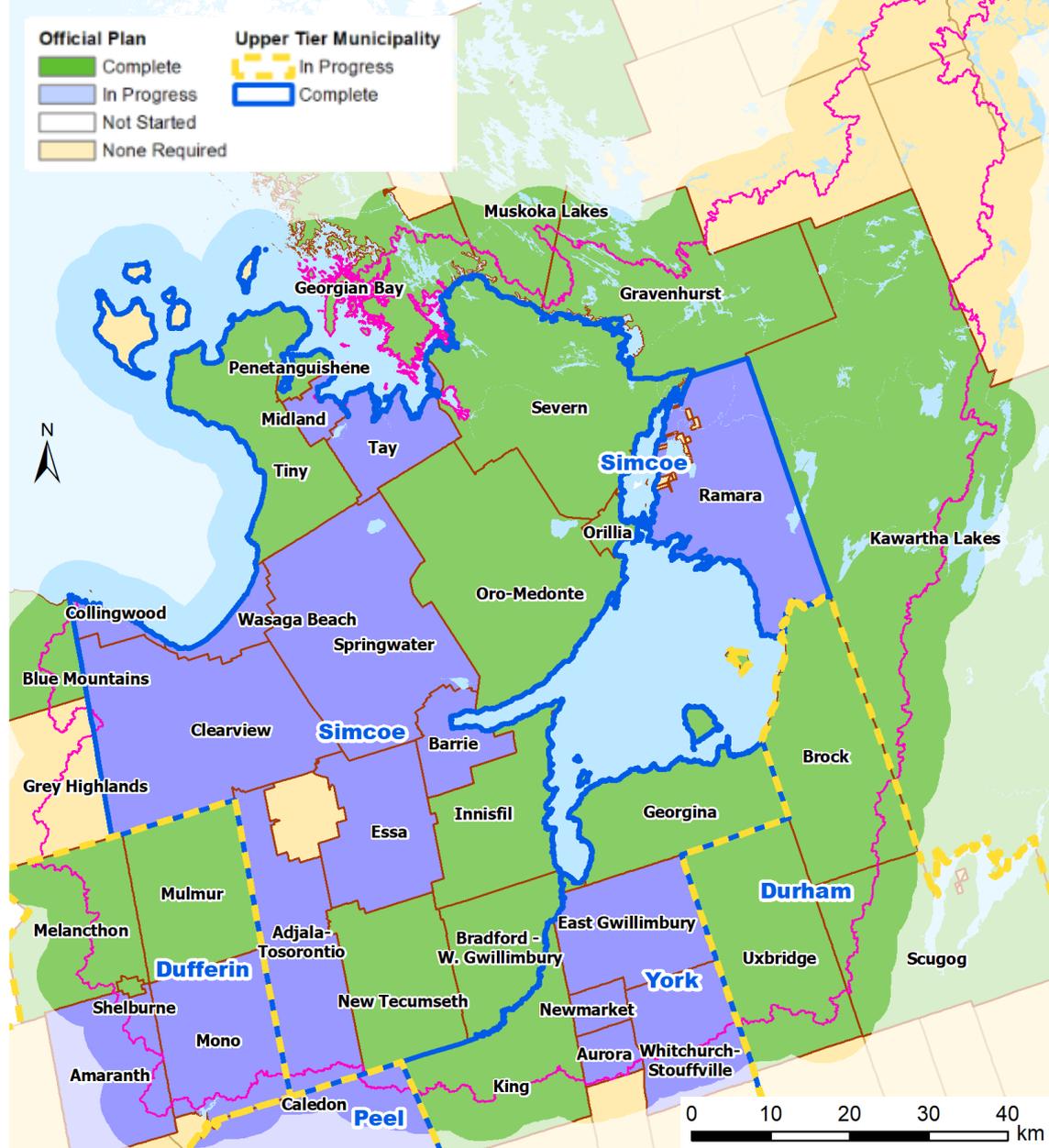
Reporting Period	Estimated Number of Risk Management Plans Required	Number of Risk Management Plans Completed
Half of 2015	No Data	25
2016	691	32
2017	476	49
2018	360	72
2019	140	54
2020	119	19
2021	103	14
2022	92	6
Total		271

We have approx. 92 RMPs remaining to negotiate with 15 months to go.

Some RMPs required for Application of Commercial Fertilizer are not included

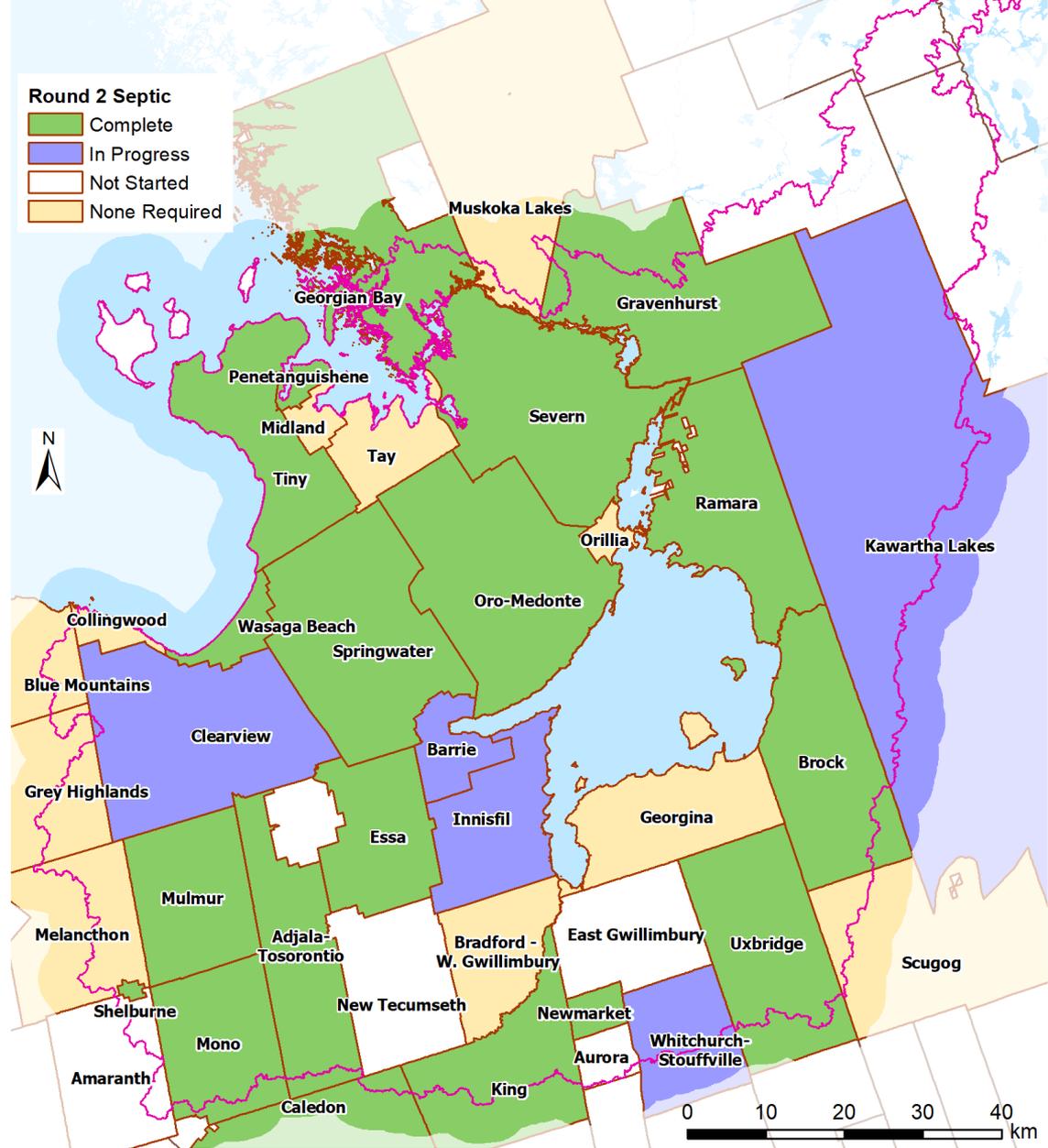


Official Plan Updates Progress to Date



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Septic Inspections Progress to Date



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Ministry Progress in Addressing Existing Threats

MECP

Fuel Handling
& Storage

Permit to
Take Water

Wastewater /
Sewage Works

Landfilling
and Storage



OMAFRA

Non-Agricultural
Source Material Plans

Nutrient Management
Strategies



100% Complete

Water *is* life. **Protect** Yours.

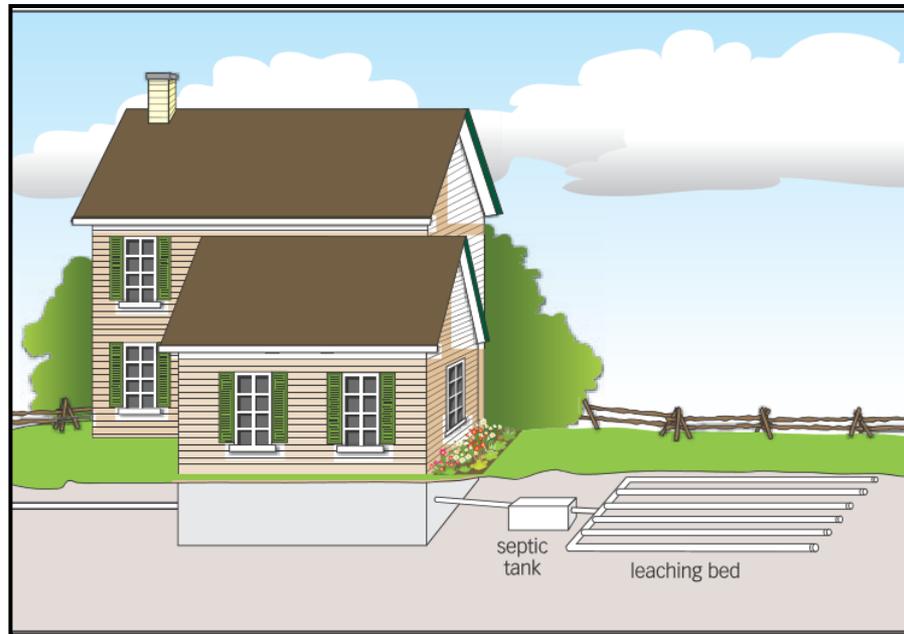
Potential Issues - RMPs

- The COVID-19 pandemic impacted RMP negotiation across the province in 2022.
- MECP recently (January 2023) approved an extension (to July 1, 2024) to the deadline to complete RMPs.
- The RMP workload is not distributed equally across the region. Some RMOs require aggressive RMP workplans to complete all the required RMPs by the deadline (15 months left).



Potential Issues – Septic Inspections

- 129 Septic Inspections (second round) need to be completed (deadline was January 2022).
- The COVID-19 pandemic impacted the ability of many municipalities to complete the inspections by the deadline.



Next Steps - RMPs

- RMOs with RMPs remaining to negotiate have developed workplans designed to complete all RMPs by the July 2024 deadline.
- Source Protection Authority staff will bring progress reports to future SPC meetings to track progress.



Summary Points

1. All municipalities submitted their 2022 annual reports to the Source Protection Authority. Municipalities in our source protection region have processes in place to ensure that their day-to-day planning decisions conform to our source protection plan.
2. 98% of the policies that address significant drinking water threats have been or are being implemented.
3. Approximately 94% of the existing SDWTs have been addressed through policy implementation.
4. While 271 RMPs have been established as of December 31, 2022, it will be challenging for many of our RMOs to complete the estimated 92 outstanding RMPs by the July 1, 2024, deadline.
5. 94% (1,954 of the estimated 2,083) of round-two on-site septic system inspections have been completed by municipal staff.

Recommended Progress Score

- The Source Protection Committee recommends providing a progress score of:

S: Satisfactory

on achieving source protection plan objectives this reporting period.

(Satisfactory = Some of the source protection plan policies have been implemented and/or are progressing in accordance with the timelines specified in the source protection plan)



**A clean glass of water starts
long before you turn on the tap**

Thank you!
Questions?

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Source Protection Authority Staff Report

Staff Report: 01-04-23-NVSPA

To: Nottawasaga Valley Source Protection Authority

From: Lynn Dollin, Chair – South Georgian Bay Lake Simcoe Source Protection Committee

Date: April 28, 2023

Subject

Source Protection Committee Chair's Update

Recommendation

That the report by South Georgian Bay Lake Simcoe Source Protection Committee Chair Lynn Dollin regarding Source Protection Committee updates be received for information

Chair's Update

It is my pleasure to bring you a brief update from the Source Protection Committee since the last meeting of the Lakes Simcoe and Couchiching/Black River Source Protection Authority Board.

The Source Protection Committee has met seven times since your last Source Protection Authority meeting. In our most recent meeting, we received the annual report on implementation progress, a copy of which is in your agenda package today. As evident in this report, the delays in implementing the Source Protection Plan introduced by the COVID-19 pandemic are still being felt, but the Committee has confidence that the Risk Management Officials and other municipal staff in this Source Protection Region remain committed to their role in delivering this program.

Source Protection Committee meetings have gotten more frequent than they have in recent years, as the Committee has been involved in two significant undertakings.

First, has been reviewing and commenting on proposed amendments to the Source Protection Plan to add new municipal drinking water systems. This is a very important part of the Source Protection Program, which ensures that all future municipal drinking water systems receive the same level of protection as existing systems, and all the future residents in our Source Protection Region can have the same level of confidence in the water that they drink. With the rate of growth and development in this area however, our Source Protection Committee has dealt with more amendments of this sort than any other committee in the province. Through

this experience, both the Committee and staff have become aware of inefficiencies in the process; recommendations to address these efficiencies were forwarded by Source Protection Authority staff to Ministry staff. Questions have also arisen in the Committee about the relationship between our role and other Ministry approval processes associated with new wells.

The second item the Committee continues to focus on is a review of the policies in our Source Protection Plan in the light of recent changes the Province made to the technical rules underpinning the program. In some cases, these rules will change what is considered a “significant drinking water threat” and, as such, will change where our policies apply. The committee has been reviewing the implications of these changes, to ensure that our policies continue to find the right balance between protecting drinking water, without becoming overly onerous or providing unnecessary restrictions on people’s livelihoods. The committee has reviewed changes related to road salt, waste management, and the storage of fuel. Next will be a review of policies which relate to farming practices. Given the prevalence of farming in our Source Protection Region, the committee recognizes that changes to provincial rules could have far-reaching implications, and I expect the committee will review these changes in some detail.

Finally, I am happy to announce that Minister Piccini has appointed me to another term as Chair of the Source Protection Committee, through until 2025.

Respectfully submitted,

Lynn Dollin, Chair



Staff Report: 02-04-23-NVSPA
Date: 28/04/2023
To: Chair and Members of the Board of Directors
From: Sarah Thompson
Acting Source Water Coordinator

SUBJECT: Annual Source Water Protection Progress Report to the Ministry

Recommendation

RESOLVED THAT: The Board of Directors receive Staff Report No. 02-04-23-NVSPA regarding the 2023 Source Water Protection Annual Report to the Ministry be received for information.

Purpose of the Staff Report

The purpose of this Staff Report is to provide an overview of the South Georgian Bay Lake Simcoe Source Protection Plan annual progress report, as well as to obtain approval to submit the annual report to the Director, Conservation and Source Protection Branch, Ministry of the Environment, Conservation and Parks.

Background

The South Georgian Bay Lake Simcoe Source Protection Plan (the Plan) has been in effect since July 1, 2015. The *Clean Water Act* (Section 46) requires that the lead Source Protection Authority report to the Director on the implementation of all policies each year. It also requires that the Source Protection Committee be provided an opportunity to comment on the draft report before its submission (draft report attached).

A primary objective of monitoring and reporting is to assess if threats to municipal drinking water sources are being reduced through the implementation of the

Plan's policies. This information will help support any future amendments to the Plan and provide accountability and transparency to stakeholders.

Essential implementation actions such as establishing a Risk Management Office and drafting policies for municipal Official Plans have been completed across the Source Protection Region. All municipalities have been negotiating risk management plans (RMPs) with landowners, and many municipalities have successfully completed some or all of their required risk management plans. Similarly, Ontario ministries have completed the task of reviewing previously issued provincial approvals (prescribed instruments such as Nutrient Management Plans) where they have been identified to address existing activities that may pose a risk to sources of drinking water.

Issues/Analysis

At their most recent meeting, the Source Protection Committee reviewed source protection plan implementation progress data and identified the following key findings:

- All municipalities have submitted their annual reports to Source Protection Authority staff.
- Most policies (98%) that address significant drinking water threats in the Plan have been or are in the process of being implemented in accordance with the timelines set out in the Plan or otherwise amended.
- It is estimated that 94% (4,070 of 4,317) of existing significant drinking water threats have been mitigated through policy implementation.
- A total of 271 risk management plans have been established and an estimated 92 risk management plans remain to be negotiated across the Source Protection Region. Risk Management Officials have workplans that indicate the remaining risk management plans will be established by the July 2024 deadline.
- Approximately 94% (1,954 of 2,083) of the round-two on-site sewage (septic) system inspections required have been completed, with the deadline having passed in the current reporting year (2022).

In January 2023 the Ministry of the Environment, Conservation and Parks approved an extension to the RMP deadline to July 1, 2024, for all municipalities (except for York Region, who had not sought an extension) in the South Georgian Bay Lake Simcoe source protection region. As part of granting this extension, they have requested that the Source Protection Authority submit a workplan for completing all remaining RMPs. Risk Management Officials worked with Source Protection Authority staff to develop a comprehensive RMP workplan which was

presented to the Source Protection Committee at the March 30, 2023 meeting. Based on the workplan (see Table 1), all the RMPs remaining to be negotiated will be established by the July 2024 deadline.

Source Protection Authority staff will continue to bring progress reports on RMP completion to future meetings of the Source Protection Committee so the Committee can monitor progress. The Source Protection Committee indicated that, considering the impact the COVID-19 pandemic has had on RMP negotiations over the past three years, it is satisfied with the current rate of progress on plan implementation.

It is therefore recommended that Staff Report No. 02-04-23-NVSPA regarding the 2023 Source Water Protection Annual Report to the Ministry be received; and Further that the Annual Report be approved for submission to the Director, Conservation and Source Protection Branch, Ministry of the Environment, Conservation and Parks.

Relevance to Authority Policy/Mandate

The various implementers of the South Georgian Bay Lake Simcoe Source Protection Plan have submitted their 2022 annual reports to the Source Protection Authority as required under the *Clean Water Act*. These reports show that implementation of the Plan is currently progressing at a satisfactory rate. Most Plan policies are progressing in accordance with the timelines specified in the Plan. The comprehensive RMP workplan developed in early 2023 by Risk Management Officials indicates that all the RMPs remaining to be negotiated will be established by the July 2024 deadline.

Impact on Authority Finances

The receipt of the RMO annual reports by the NVSPA has no implications on the finances of the Authority.

Climate Change Implications

This staff report does not result in an increase in greenhouse gases, temperature or precipitation exposure.

Reviewed by: Approved for submission by:

Original Signed by

Chris Hibberd

Director Watershed Management Services

Original Signed by

Doug Hevenor

Chief Administrative Officer

Attachments:

Table 1- Risk Management Plans Status

The Source Protection Annual Progress Report, South Georgian Bay Lake Simcoe Region.



Table 1 – Risk Management Plans Status

Risk management plan category, timelines for signature and mechanism to be used if signature deadline missed	City of Barrie	City of Kawartha Lakes	Durham Region	Nottawasaga Valley Conservation Authority	Severn Sound Environmental Association	Township of Ramara	Total
Estimated number of Risk Management Plans remaining	13	3	4	25	35	5	85
Number on hiatus	0	1	3	4	6	0	14
Number which may need to be "Ordered"	0	0	0	1	0		1
Number remaining to be negotiated	13	2	1	20	29	5	70
Number remaining to be drafted	0	2	1	20	11	0	34
Timeline for circulating drafts	Not applicable	April 2023	Pending WHPA approval	Adjala-Tosorontio and New Tecumseth: Spring 2023 Melancthon and Shelburne: Winter 2023	July 2023	Not applicable	Not applicable
Timeline by which signatures are expected	June 2023	May 2023	Pending WHPA approval	Adjala-Tosorontio and New Tecumseth: Summer 2023 Melancthon and Shelburne: Spring 2024	March 2024	Sept 2023	Not applicable
Mechanism to be used if signature deadline missed	Not expected to occur	RMO will issue Notices if necessary	TBD, Pending WHPA approval	RMO will consider using Part IV powers after the specified time has passed	RMO will utilize Part IV powers under the Act	RMO will utilize Part IV powers under the Act	Not applicable



Source Protection Annual Progress Report

South Georgian Bay Lake Simcoe Region



On the Implementation of the South Georgian Bay Lake Simcoe Source Protection Plan

Reporting period January 1 to December 31, 2022

Ourwatershed.ca

Water
is life.
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Yours.

2022 Source Protection Annual Progress Report

I. Introduction

This annual report briefly summarizes the progress made in implementing the source protection plan for the Lakes Simcoe & Couchiching Black River, Nottawasaga Valley and Severn Sound Source Protection Areas, as required by the Clean Water Act and its regulations for the 2022 calendar year.

Protecting the sources of our drinking water is the first step in a multi-barrier approach to safeguard the quality and quantity of our water supplies. The source protection plan is the culmination of extensive science-based assessments, consultation with the community, collaboration with local stakeholders and the province, and research. The implementation of the policies contained in the source protection plan ensure that activities carried out in the vicinity of municipal drinking water supply wells and lake-based drinking water intakes do not pose a significant risk to those supplies.



II. A Message from your local Source Protection Committee

Our source protection committee was asked to provide a progress score on achieving source protection plan objectives this reporting period, with three progress scores to choose from as follows:

- **Progressing Well/On Target** – The majority of the source protection plan policies have been implemented and/or are progressing
- **Satisfactory** – Some of the source protection plan policies have been implemented and/or are progressing
- **Limited progress** – A few of source protection plan policies have been implemented and/or are progressing

The progress score selected for achieving source protection plan objectives this reporting period is satisfactory.

The COVID-19 pandemic has impacted progress made in achieving source protection plan objectives in 2022. All municipalities submitted their 2022 annual reports to the Source Protection Authority. Municipalities in our source protection region have processes in place to ensure planning decisions conform to our source protection plan. Ninety-eight percent of the policies that address significant drinking water threats in our Plan have been or are being implemented. Approximately 94% of the 3,313 significant drinking water threats that existed at the time of source protection plan approval have been addressed through policy implementation.

A total of 271 risk management plans have been established as of December 31, 2022, and workplans have been established by Risk Management Officials to complete the estimated 92 outstanding Risk Management Plans by the July 2024 deadline. Progress will be closely monitored on outstanding Plans and reported to the Source Protection Committee until they are all complete.

III. Our Watershed

The South Georgian Bay Lake Simcoe source protection region contains four watersheds and spans over 10,000 km², from the Oak Ridges Moraine in the south to the Canadian Shield in the north and is comprised of the Black-Severn, Lake Simcoe, Nottawasaga Valley and Severn Sound watersheds. The region contains portions of the Niagara Escarpment, Oak Ridges Moraine, Oro Moraine, Peterborough Drumlin Fields, Simcoe Uplands and Lowlands and the Canadian Shield. The region includes:

- 4 watersheds
- 52 municipalities
- 3 First Nations communities
- 107 drinking water systems
- 276 municipal supply wells
- 16 municipal surface water intakes
- More than 50,000 private wells

All told, the South Georgian Bay Lake Simcoe region has about one third of the municipal drinking water systems in the province.

The region is complex and diverse in terms of geology, physiography, population, and development pressures, with many, often conflicting, water uses including drinking water supply, recreation, irrigation, agriculture, commercial and industrial uses, as well as ecosystem needs.

These differences represent a significant challenge for the development of a source protection plan because of the associated variability of available information upon which to base the technical work, the differing stresses on water resources related to development pressure and population growth, and the differences in the nature, density and locations of threats to the quality and quantity of water resources.

To learn more, please read our assessment reports and source protection plan.

IV. At a Glance: Progress on Source Protection Plan Implementation

1. Source Protection Plan Policies and Addressing Significant Risks

The South Georgian Bay Lake Simcoe Source Protection Committee included 129 policies in their source protection plan to address 22 prescribed threats, protect sources of drinking water and monitor the progress of policy implementation.

Since the source protection plan took effect over eight years ago, much has been accomplished. To date, 100% of the legally binding policies that address significant drinking water threat activities have been or are being addressed. 42% have been implemented, 51% are in the process of being implemented, and 7% have been evaluated and determined no further action is required.

The progress score for implementing Plan policies is progressing well/on target.

2. Municipal Progress: Addressing Risks on the Ground

Of the 52 municipalities (upper, lower and single-tier) within the South Georgian Bay Lake Simcoe Source Protection Region, 43 of these are subject to one or more source protection plan policies. The remaining nine municipalities do not have vulnerable areas where policies apply.

Planning departments and building officials are screening applications for locations within vulnerable areas where threats to drinking water sources are possible and policies may apply.

Municipalities in our source protection region are also required to review and update their Official Plan to ensure it conforms with the local source protection plans the next time they undertake an Official Plan review under the Planning Act. All 43 of the municipalities that are subject to source protection plan policies have amended or are in the process of amending their Official Plan to conform with the source protection plan for our region.

The municipal progress score is progressing well/on target.

3. Septic Inspections

Within our source protection region, 2,083 septic systems are required to be inspected as part of the 5-year inspection cycle. To date, 1,954 (94%) of on-site sewage systems have been inspected in accordance with the Ontario Building Code in the second round.

The progress score for the septic inspection program is progressing well/on target.

4. Risk Management Plans

265 risk management plans were established in our source protection region as of December 31, 2022 and six more completed since then.

56 inspections were carried out in 2022 by a Risk Management Official/Inspector for prohibited or regulated activities. There is a greater than 99% compliance rate with the risk management plans established in our source protection region.

Workplans have been established by Risk Management Officials to complete the 92 outstanding Risk Management Plans by the July 2024 deadline. Progress will be closely monitored on outstanding Plans and reported to the Source Protection Committee until they are all complete.

The progress score for establishing risk management plans is satisfactory.

5. Provincial Progress: Addressing Risks on the Ground

Ontario ministries are reviewing applications for new or amended and previously issued provincial approvals (i.e. prescribed instruments, such as environmental compliance approvals under the Environmental Protection Act) where they have been identified as a tool in our plan to address activities that pose a significant risk to sources of drinking water. The provincial approvals are being issued, denied, amended or revoked, where necessary, to conform to plan policies. Our policies set out a timeline of five years from the date the source protection plan took effect (July 1, 2015) to complete the review of existing activities and make any necessary changes to previously issued approvals. The timeline for new or amended prescribed instruments is outlined in the Plan as the day the Source Protection Plan took effect. The Ministries have reported 100% completion of previously issued provincial approvals in our source protection region and have a review protocol in place to screen all new applicable approval applications.

The progress score for the addressing risks using prescribed instruments is progressing well/on target.

6. Source Protection Awareness and Change in Behaviour

To raise awareness about the protection of local drinking water sources, municipalities across the South Georgian Bay Lake Simcoe source protection region have installed a total of 334 drinking water protection zone signs on municipal roads surrounding vulnerable areas. In addition, 14 signs have been installed on provincial highways.

Staff from Lake Simcoe and Severn Sound Source Protection Authorities met with Beausoleil First Nation, Ogemawahj Tribal Council and Chippewas of Georgina Island First Nation to present to them the Source Water Protection Best Management Practices,

developed by the Ministry. Beausoleil First Nation has since signed a funding agreement with the Ministry, allowing them to implement some of the voluntary best practices to protect their well and surface water supplies.

7. Source Protection Plan Policies: Summary of Delays

Of the 129 policies included in the Source Protection Plan, all (with the exception of one) are currently being implemented or are in the process of being implemented. The only policy that has had no progress made to date is the non-legally binding policy on transport pathways (TP-1). This policy only applies to one municipality in the Severn Sound Source Protection Area. Within this area there are numerous significant drinking water threats and managing these threats through the use of legally binding policies has been the main priority to date. This policy will continue to be considered in future work plans.

8. Source Water Quality: Monitoring and Actions

City of Barrie - Barrie Well Supply - Central Well Field Issue contributing area for:

Sodium and Chloride

An increasing concentration/trend has been observed.

Risk management plans are being developed for large users of salt to ensure best practices are implemented for storage and application. The City of Barrie staff follow Smart About Salt practices.

Town of Penetanguishene - Robert Street West Supply Well Issue contributing area for:

Trichloroethylene

A decreasing concentration/trend has been observed.

Township of Brock – Cannington Well Supply – Arena Well Field

Trichloroethylene

A decreasing concentration/trend has been observed.

Township of Severn - Coldwater Well Supply Issue contributing area for:

Trichloroethylene

No change in concentration/trend.

Tiny Township - Lafontaine Well Supply Issue contributing area for:

Nitrate

A decreasing concentration/trend has been observed.

Tiny Township - Georgian Sands Well Supply Issue contributing area for:

Nitrate

No change in concentration/trend.

9. Science-based Assessment Reports: Work Plans

No work plans were required to be implemented for our assessment reports.

10. More from the Watershed

To learn more about the South Georgian Bay-Lake Simcoe Protection Region, visit:

www.ourwatershed.ca

Education and outreach are an important part of implementing Source Protection. Source protection authorities, municipalities and Risk Management Officials within the region continue to engage the community through site visits, social media, and workshops.



Staff Report: 03-04-23-NVSPA

Date: 28/04/2023

To: Chair and Members of the Board of Directors

From: Bill Thompson
Manager, Watershed Plans and Strategies, Lake Simcoe Region
Conservation Authority

SUBJECT: Update on Source Protection Plan amendments submitted for Ministerial approval

Recommendation

RESOLVED THAT: Staff Report No. 03-04-23-NVSPA regarding amendments to the South Georgian Bay Lake Simcoe Source Protection Plan submitted to the Minister of Environment, Conservation and Parks for approval be received for information.

Purpose of the Staff Report

The purpose of this Staff Report is to provide an update to the Source Protection Authority Board of Directors on amendments to the South Georgian Bay Lake Simcoe Source Protection Plan that have recently been submitted for approval.

Background

Regulation 205/18 under the *Safe Drinking Water Act* requires that any amendments to municipal residential Drinking Water Works Licences and Permits be accompanied by an amendment to the appropriate Source Protection Plan. The intent of this Regulation is to ensure that raw sources of municipal drinking water remain protected, even as drinking water systems change (or expand). As such, new or upgraded municipal wells or water treatment plants generally require new or revised Wellhead Protection Areas and Intake Protection Zones in Source

Protection Plans, and may lead to new restrictions association with Source Protection Plan policies in those areas.

Source Protection Authority staff are responsible for ensuring these amendments are completed, and ultimately approved by the Minister of Environment, Conservation and Parks. The process directed to follow is a consultation-rich one, with engagement occurring with MECP staff, municipal staff and councils, and affected local landowners. After completing that consultation and drafting the amendment to the Plan, staff are to submit to the Minister for approval.

Issues/Analysis

At the April 23, 2021, this Board delegated Authority to submit such amendments to staff (04-01-21-NVSPA). This corresponds to an annual progress update encompassing the Source Protection Region.

Over the course of the past year, Source Protection Authority staff have submitted to MECP two amendments to the Source Protection Plan for approval, as follows:

- Township of Clearview, to incorporate five planned new wells in the Stayner drinking water system, to support future growth. This amendment was submitted in April 2022 and approved in November.
- Township of Springwater, to incorporate two planned wells to the Midhurst Valley drinking water system, to support future growth. This amendment was submitted in September 2022 and approved in November.

It is therefore recommended:

That Staff Report No. 03-04-23-NVSPA regarding amendments to the South Georgian Bay Lake Simcoe Source Protection Plan submitted to the Minister of Environment, Conservation and Parks for approval be received.

Relevance to Authority Policy/Mandate

Working in partnership with other the lead Source Protection Authority, Nottawasaga Valley Source Protection Authority is responsible for ensuring that the Source Protection Plan is amended to account for new or expanded municipal drinking water systems. Over the course of the last year, two amendments to the source protection plan to address changes in municipal drinking water systems have been submitted to the Minister of Environment, Conservation and Parks for approval, both of which have been approved.

Impact on Authority Finances

Source Protection Plan amendments under Section 34 of the Clean Water Act in support of Regulation 205/18 has no implications on the finances of the Authority.

Climate Change Implications

This staff report does not result in an increase in greenhouse gases, temperature or precipitation exposure.

Reviewed by:

Original Signed by

Chris Hibberd

Director Watershed Management Services

Approved for submission by:

Original Signed by

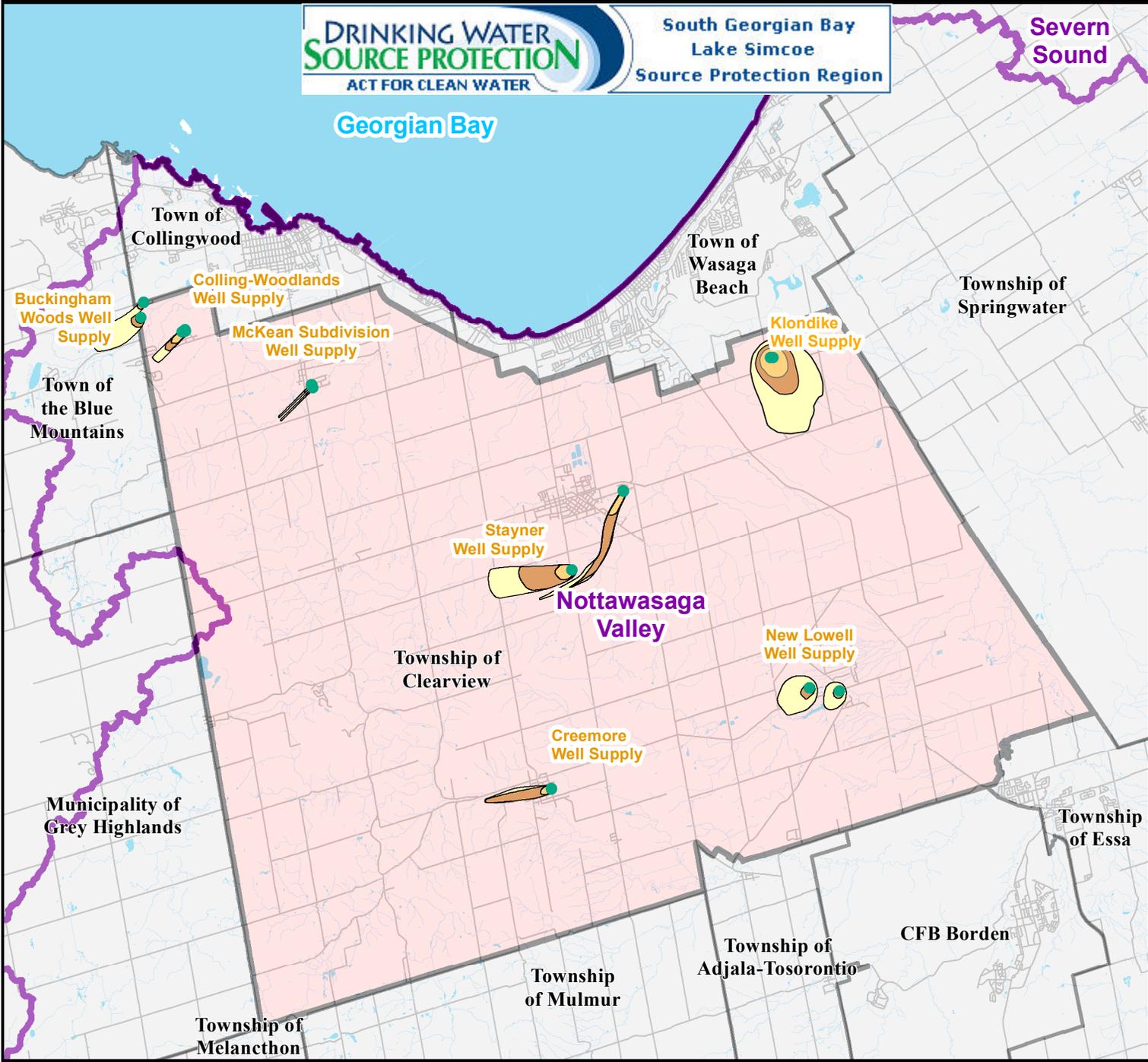
Doug Hevenor

Chief Administrative Officer

Attachments:

Revised wellhead protection area mapping:

- A. Township of Clearview (overview)
- B. Stayner drinking water system, Clearview
- C. Township of Springwater (overview)
- D. Midhurst Valley drinking water system, Springwater



Legend

- Municipal Supply Well in Township of Clearview
- WHPA-A (100 m RADIUS)
- WHPA-B (2-YEAR TIME-OF-TRAVEL)
- WHPA-C (5-YEAR TIME-OF-TRAVEL)
- WHPA-C1 (10-YEAR TIME-OF-TRAVEL)
- WHPA-D (25-YEAR TIME-OF-TRAVEL)
- Municipality Boundary
- SWP Watershed Area

Drinking Water System Vulnerable Areas in Township of Clearview



2,100,050 0 2,100 Meters

Created by: NVCA
Date: 2021-09



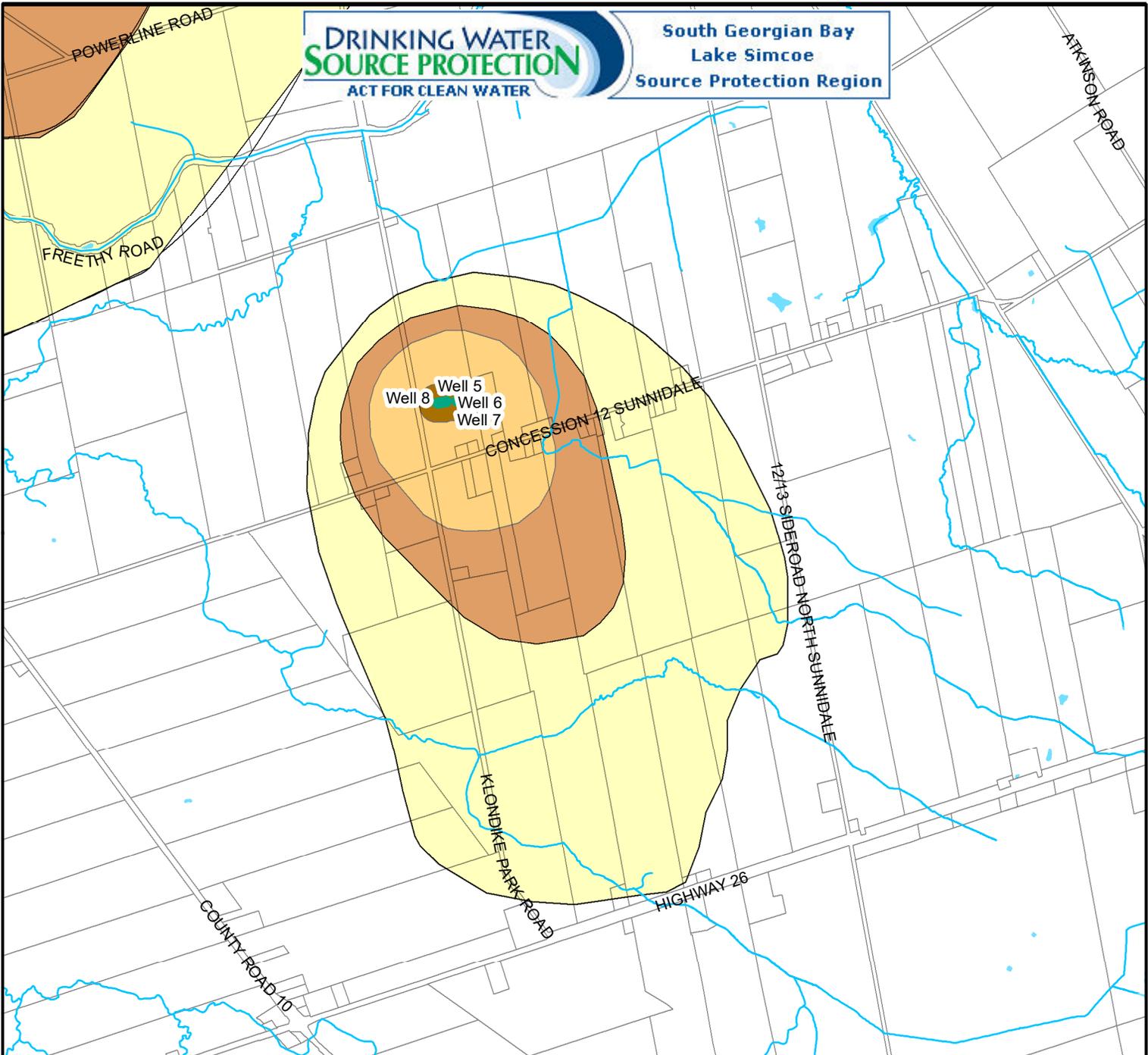
Ontario

Scale: 1:200,000

UTM Zone 17N, NAD83

Figure 10-1

This map was produced for the South Georgian Bay Lake Simcoe Protection Region for the purposes of completing the South Georgian Bay Lake Simcoe Assessment Report. Base data have been compiled from various sources, under data sharing agreements. While every effort has been made to accurately depict the base data, errors may exist.



Legend

- MUNICIPAL WELL LOCATION
- WHPA-A: 100 m RADIUS
- WHPA-B: 2-YEAR TIME-OF-TRAVEL
- WHPA-C: 5-YEAR TIME-OF-TRAVEL
- WHPA-D: 25-YEAR TIME-OF-TRAVEL



**WELLHEAD PROTECTION AREAS-
KLONDIKE WELLS, STAYNER, CLEARVIEW**

ASSESSMENT OF DRINKING WATER THREATS
SELECTED MUNICIPAL GROUNDWATER SUPPLIES
South Georgian Bay Lake Simcoe
Source Protection Region

Created by: NVCA
Date: 2021-09



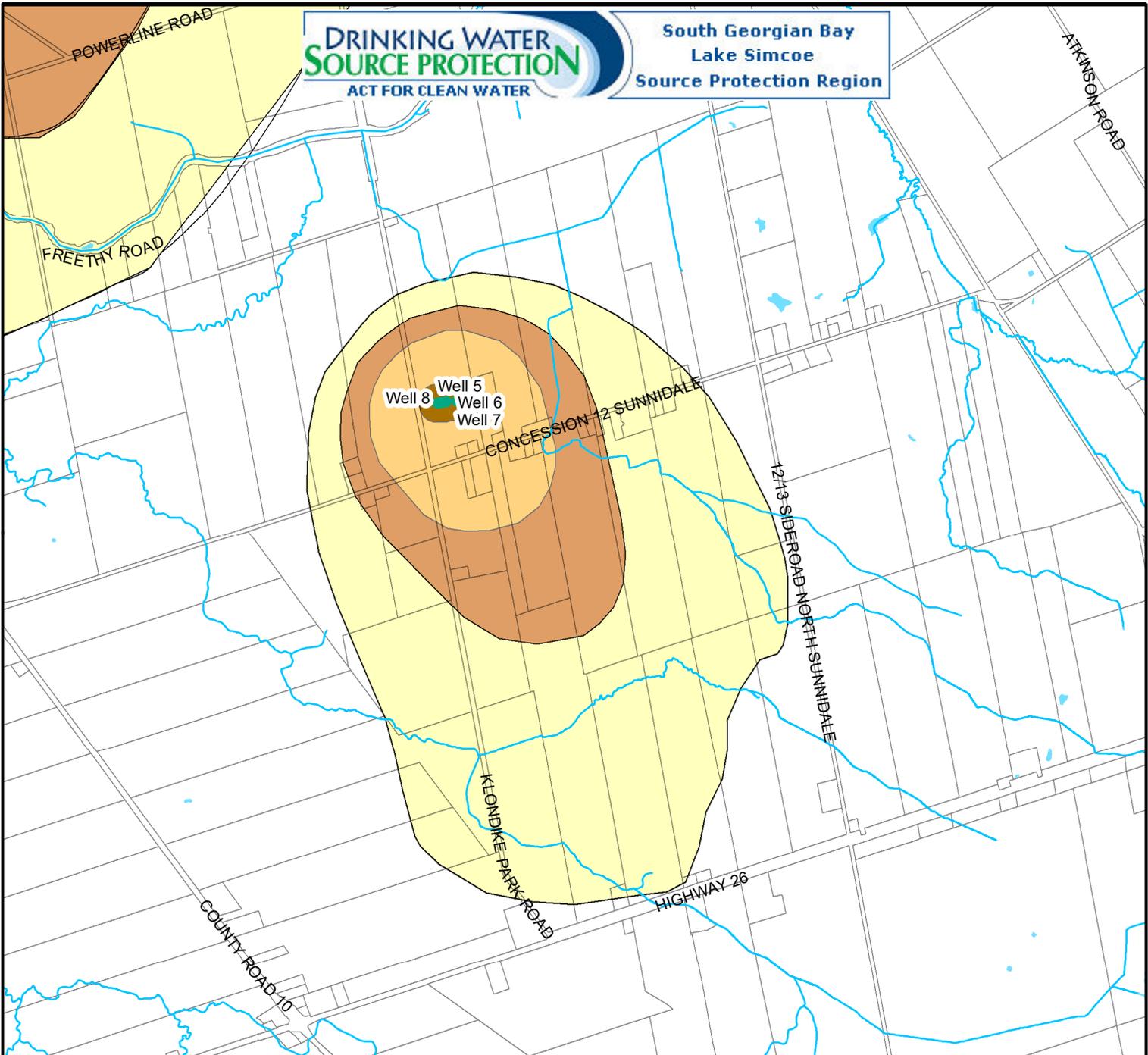
Ontario

Scale: 1:30,000

UTM Zone 17N, NAD83

Figure 10f-10

This map was produced for the South Georgian Bay Lake Simcoe Protection Region for the purposes of completing the South Georgian Bay Lake Simcoe Assessment Report. Base data have been compiled from various sources, under data sharing agreements. While every effort has been made to accurately depict the base data, errors may exist.



Legend

- MUNICIPAL WELL LOCATION
- WHPA-A: 100 m RADIUS
- WHPA-B: 2-YEAR TIME-OF-TRAVEL
- WHPA-C: 5-YEAR TIME-OF-TRAVEL
- WHPA-D: 25-YEAR TIME-OF-TRAVEL



**WELLHEAD PROTECTION AREAS-
KLONDIKE WELLS, STAYNER, CLEARVIEW**

ASSESSMENT OF DRINKING WATER THREATS
SELECTED MUNICIPAL GROUNDWATER SUPPLIES
South Georgian Bay Lake Simcoe
Source Protection Region

Created by: NVCA
Date: 2021-09



Ontario

Scale: 1:30,000

UTM Zone 17N, NAD83

Figure 10f-10

This map was produced for the South Georgian Bay Lake Simcoe Protection Region for the purposes of completing the South Georgian Bay Lake Simcoe Assessment Report. Base data have been compiled from various sources, under data sharing agreements. While every effort has been made to accurately depict the base data, errors may exist.



Legend

- MUNICIPAL SUPPLY WELL IN SPRINGWATER
- WHPA-A (100 m RADIUS)
- WHPA-B (2-YEAR TIME-OF-TRAVEL)
- WHPA-C (5-YEAR TIME-OF-TRAVEL)
- WHPA-C1 (10-YEAR TIME-OF-TRAVEL)
- WHPA-D (25-YEAR TIME-OF-TRAVEL)
- SWP Watershed Area
- Municipality Boundary

Drinking Water System Vulnerable Areas in Township of Springwater

Created by: NVCA
Date: 2022-05

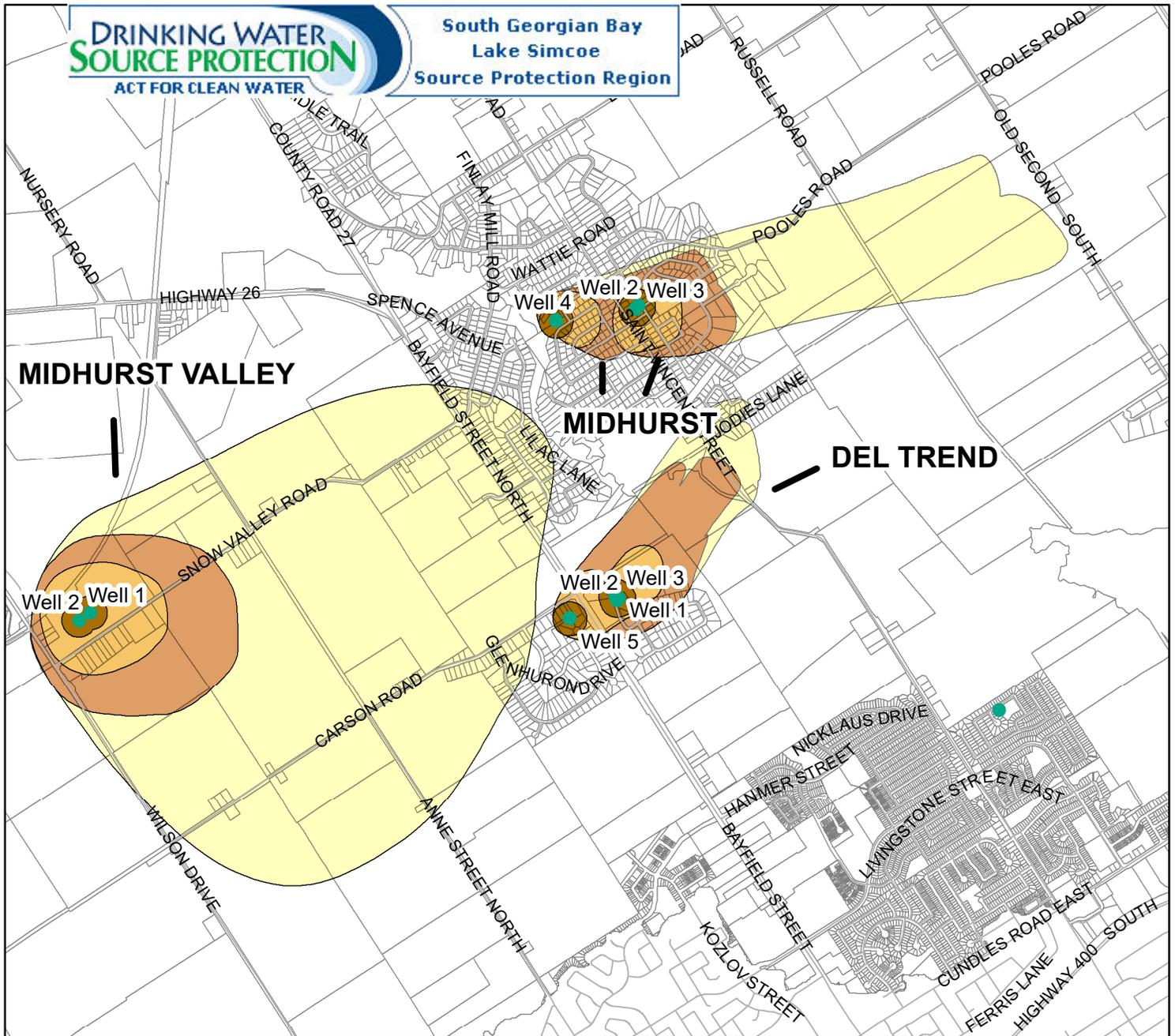
Scale: 1:225,000

UTM Zone 17N, NAD83



2,300,150 0 2,300 Meters





Legend

- MUNICIPAL WELL LOCATION
- WHPA-A (100 m RADIUS)
- WHPA-B (2-YEAR TIME-OF-TRAVEL)
- WHPA-C/C1 (5/10-YEAR TIME-OF-TRAVEL)
- WHPA-D (25-YEAR TIME-OF-TRAVEL)



**WELLHEAD PROTECTION AREAS-
MIDHURST VALLEY/DEL TREND/MIDHURST**

ASSESSMENT OF DRINKING WATER THREATS
SELECTED MUNICIPAL GROUNDWATER SUPPLIES
South Georgian Bay Lake Simcoe
Source Protection Region

Created by: NVCA
Date: 2022-05



Ontario

Scale: 1:35,000

UTM Zone 17N, NAD83

Figure 16b-1

This map was produced for the South Georgian Bay Lake Simcoe Protection Region for the purpose of completing the South Georgian Bay Lake Simcoe Assessment Report. Base data have been compiled from various sources, under data sharing agreements. While every effort has been made to accurately depict the base data, errors may exist.