



**Lake Erie Region Source Protection Committee
Agenda**

Thursday, April 4, 2019

1:00 pm

Auditorium

Grand River Conservation Authority

400 Clyde Road, Box 729

Cambridge, ON N1R 5W6

Pages

1. Call to Order
2. Roll Call and Certification of Quorum – 17 Members Constitute a Quorum (2/3 of Members plus Chair)
3. Chair's Remarks
4. Review of Agenda
5. Declarations of Pecuniary Interest
6. Minutes of the Previous Meeting
7. Hearing of Delegations
8. Presentations
9. Correspondence
10. Reports
 - a. SPC-19-04-01 Source Protection Program Update 1
 - b. SPC-19-04-02 Progress Report Grand River 5
 - c. SPC-19-04-03 Otterville Wellfield and Wellhead Protection Area and Issue Contributing Area Update 9

d.	SPC-19-04-04 Catfish Creek Annual Progress Report	17
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f.	SPC-19-04-06 Long Point Region Annual Progress Report	115
g.	SPC-19-04-07 Grand River Annual Progress Report	167
h.	SPC-19-04-08 Revised Updated Grand River Assessment Report and Source Protection Plan for Grey/Hamilton/Brant	219
i.	SPC-19-04-09 Draft Updated Bundled Grand River Assessment Report and Source Protection Plan	231

11. Business Arising from Previous Meetings

- a. Lake Erie Region Source Protection Committee request under Technical Rule 119, from February 3, 2011, Re: rehabilitation activities at an aggregate operation within a vulnerable area of a municipal drinking water system that allows ponding of water.

12. Other Business

- a. Question and Answer Period

13. Closed Meeting

14. Next SPC Meeting

June 20, 2019 at 1:00pm, Grand River Conservation Authority, 400 Clyde Road, Cambridge, ON

15. Adjourn

LAKE ERIE REGION SOURCE PROTECTION COMMITTEE

REPORT NO. SPC-19-04-01

DATE: April 4, 2019

TO: Members of the Lake Erie Region Source Protection Committee

SUBJECT: Source Protection Program Update

RECOMMENDATION:

THAT the Lake Erie Region Source Protection Committee receives report SPC-19-04-01 – Source Protection Program Update – for information.

REPORT:

2019/2020 Financial Update

On January 30, 2019, the Ministry of the Environment, Conservation and Parks (MECP) released the Drinking Water Source Protection 2019/20 Program Application Guide to Program Managers across the province. Staff submitted the proposed 2019/20 budget to the MECP on February 28, 2019. The proposed workplan includes a staffing contingent of 4.7 FTE for Lake Erie Region with a total proposed budget of just over \$1 million. On March 18, 2019, Susan Ecclestone, Acting Director, Source Protection Programs Branch, advised conservation authorities that the branch has received direction to negotiate transfer payment agreements for the coming 2019/20 funding year. The branch is working to have all the agreements in place by the end of April.

Model Management Study Update

GRCA, together with the Region of Waterloo and the City of Guelph, are continuing their discussions and work to develop a model management governance framework. A funding request has been made to the province to continue with the development of the framework. In addition, discussions are taking place with the MECP for their support to transfer and include foundational data layers (e.g., geological layers) from the Tier 3 models into GRCA's ArcGIS web mapping tool for broader availability and use.

Whitemans Creek Tier 3 Model Training Session

On April 1, 2019, the GRCA hosted a second training session to review the models developed for the Whitemans Creek Tier 3 water budget study, following the training session on January 17, 2019. Together with the study's consultants, Earthfx, GRCA staff will focus on the use of model components for other uses, such as water balance assessments.

SPC Membership

As per the SPC Member Terms of Appointment plan received by the SPC in June 2018 (report SPC-18-06-02), membership of the Lake Erie Region Source Protection Committee is being renewed on an ongoing basis to balance renewal while maintaining a measure of stability and knowledge.

Lake Erie Region staff expect to receive joint nominations from municipalities in Oxford and Perth Counties to appoint a new member following H. Cornwell's intention to resign. Staff anticipate that the new member will be appointed in time for the June SPC meeting.

In the economic sector, the process has been initiated for the renewal/re-appointment of I. McDonald's term representing business and industry that expired in February 2019. Staff anticipate that the appointment will also occur in time for the June SPC meeting.

In the public sector, D. Woolcott indicated his intention to resign. An application process for a new public member will be initiated in the near future. Staff expect that a new member will be appointed in time for the September 5, 2019 SPC meeting.

SPC Meeting Outlook

Work to complete the three S.34 updates of the Grand River Source Protection Plan are continuing.

The first update is for the County of Grey, Township of Southgate (Dundalk), City of Hamilton (Lynden), and County of Brant (Airport, St. George, Bethel, and Mt. Pleasant) municipal water supply systems. This plan update is ready for release to the Grand River Source Protection Authority and details are presented in report SPC-19-04-08.

The second, larger, "bundled" update to the Grand River Source Protection Plan and Assessment Report is proposing water quality updates for all other municipal water supply systems, with the exclusion of Wellington County. Details of this plan update are contained in report SPC-19-04-09.

Pre-consultation with municipalities and ministry agencies for the "bundled" update closed March 25, 2019 and the complete updated assessment report and source protection plan to the SPC remains unchanged and is ready to be released for formal public consultation starting on April 8, 2019. Any comments will be brought back to the SPC on June 20, 2019 with additional proposed revisions, as necessary. The Grand River Source Protection Authority is anticipated to submit the amended assessment report and source protection plan to the MECP at its meeting on June 28, 2019.

The third update will include the addition of new water quantity policies in the City of Guelph, Halton Region, Region of Waterloo and Wellington County source protection plan sections, as well as water quality updates to the Wellington County assessment report and source protection plan sections. This update is currently planned for the fall and winter 2019/2020.

Additional time for developing water quantity policies may make revisions to the timeline necessary. Expected feedback and comments from Ministry staff for addressing significant drinking water threats in quarries where extraction has or may breach the aquitard protecting municipal drinking water sources using Prescribed Instruments (Permits to Take Water and approvals under the Aggregate Resources Act), as part of early engagement, is taking longer than anticipated. Discussions at the Project Team are also taking more time than expected.

At this time, the timeline is unchanged and draft water quantity policies are anticipated to be presented to the SPC on June 20, 2019 and the updated Wellington sections of the assessment report and source protection plan on September 5, 2019. Pre-consultation is scheduled to begin on September 9 and close on October 28, 2019. It is anticipated that the committee will receive

the complete S.34 draft updated Wellington/water quantity draft updated assessment report and source protection plan on December 5, 2019 for consideration and release for public consultation on January 2, 2020.

Updates to the Grand River Assessment Report and Source Protection Plan sections will continue to be presented to the Source Protection Committee (SPC) as work is completed. The next four committee meetings are scheduled for June 20, 2019, September 5, 2019, December 5, 2019 and March 12, 2020.

The following table provides an overview of the next few SPC meetings and anticipated agenda items related to the S.34 Grey/Hamilton/Brant, S.34 “bundled” Grand River and S.34 Wellington/water quantity updates.

SPC Meeting Date	Agenda Items		
	S. 34 Grey/Hamilton/Brant Update	S.34 “bundled” Grand River Update (all other sections)	S. 34 Wellington/Water Quantity Update
Apr 4, 2019	<ul style="list-style-type: none"> Revised draft updated AR and SPP (Grey, Hamilton, Brant): receive public comments for consideration; release the document to the Grand River Source Protection Authority for submission to the Ministry 	<ul style="list-style-type: none"> Complete draft updated “bundled” AR and SPP 	<ul style="list-style-type: none"> Progress report on AR and SPP updates
Apr 8 – May 21, 2019		Formal public consultation period (44 days)	
June 20, 2019		<ul style="list-style-type: none"> Revised draft updated AR and SPP: receive public comments for consideration; release the document to the Grand River Source Protection Authority for submission to the Ministry 	<ul style="list-style-type: none"> Draft water quantity policies (Guelph-Guelph/Eramosa)

SPC Meeting Date	Agenda Items		
	S. 34 Grey/Hamilton/Brant Update	S.34 “bundled” Grand River Update (all other sections)	S. 34 Wellington/Water Quantity Update
Sept 5, 2019			<ul style="list-style-type: none"> • Revised water quantity policies (Guelph-Guelph/Eramosa) and updated municipal SPP sections (Guelph, Halton, Waterloo and Wellington) • Updated AR and SPP sections; release for pre-consultation
Sept 9 – Oct 28, 2019			Municipal and ministry pre-consultation period (7 weeks)
Dec 5, 2019			<ul style="list-style-type: none"> • Complete draft updated Wellington/water quantity update
Jan 2 – Feb 16, 2020			Formal public consultation period (46 days)

Prepared by:



Ilona Feldmann
Source Protection Program Assistant

Approved by:



Martin Keller, M. Sc.
Source Protection Program Manager

LAKE ERIE REGION SOURCE PROTECTION COMMITTEE

REPORT NO. SPC-19-04-02

DATE: April 4, 2019

TO: Members of the Lake Erie Region Source Protection Committee

SUBJECT: Progress Report Grand River Assessment Report and Source Protection Plan Update

RECOMMENDATION:

THAT the Lake Erie Region Source Protection Committee receives report SPC-19-04-02 – Progress Report Grand River Assessment Report and Source Protection Plan Update – for information.

REPORT:

This report provides an update on progress of technical studies in the Grand River watershed. Progress reports and results of technical studies will be presented to the Source Protection Committee as they are completed with recommendations to update the Grand River Assessment Report and Source Protection Plan. Once the technical studies are presented, complete municipal sections of the Assessment Report and Plan will be presented to the Source Protection Committee.

Technical Studies

Centre Wellington Scoped Tier 3 Water Budget study

The Centre Wellington Scoped Tier 3 Water Budget Study began in August 2016 to assess potential water quantity risks to the Centre Wellington municipal drinking water system. The project is managed by the GRCA on behalf of the Township of Centre Wellington. The study is being completed in coordination with the Township's Water Supply Master Plan which began in early 2018.

The draft Groundwater Flow Model Development and Calibration Report is currently undergoing final revisions based on input from the Community Liaison Group and will be completed by the end of March, 2019.

The Risk Assessment phase of the project is underway with input provided by the Township's draft Water Supply Master Plan. The draft Risk Assessment report will be completed by March, 2019.

Information about the Centre Wellington study including reports, CLG presentations, and meeting summaries are available at www.sourcewater.ca/CW-Scoped-Tier3

Guelph-Guelph/Eramosa Water Quantity Policy Development Study

Under the *Clean Water Act, 2006* (CWA), policies need to be developed for areas where activities are identified as significant threat activities. For water quantity, the prescribed drinking water threats are consumptive water takings and recharge reduction. Source protection policies must protect current and future drinking water supplies, i.e., policies must ensure that an

existing activity identified as a significant drinking water threat ceases to be a significant threat, and future activities never become a significant drinking water threat.

On December 6, 2018 (report SPC-18-12-05), staff presented the policy framework and list of policy approaches informed by the Risk Management Measures (RMMs) in the TMS and the insights from the Policy Discussion Paper. Policy approaches identify the intent, i.e., what is aimed to be achieved with the policy. The policy approaches presented were high-level, draft, and subject to change.

The Project Team, comprised of representatives from the City of Guelph, Township of Guelph/Eramosa, Wellington Source Water Protection, Wellington County, Region of Waterloo, Region of Halton, MECP, and GRCA, have been working on developing draft policy text.

A main focus of the Project Team has been developing consistency among policies addressing aggregate quarry activities. As part of early engagement, City of Guelph and County of Wellington draft policies addressing aggregate quarry activities have been submitted to the Ministry of the Environment, Conservation and Parks (MECP) and the Ministry of Natural Resources and Forestry (MNRF) for their input. At this time, the Project team is waiting for feedback and comments from the MECP and MNRF. Discussions have also continued at the Project Team level and separately at the municipalities, to work through details and ensuring many angles and aspects are considered. These discussions have taken longer than originally anticipated. It is hoped that feedback from the ministries and fulsome municipal discussions will provide context and help bring policy outcomes closer together.

At this time, the Guelph-Guelph/Eramosa Water Quantity Policy Development Process Timeline remains unchanged (**Table 1**).

Table 1: Guelph-Guelph/Eramosa Water Quantity Policy Development Process Timeline

Task	Date
RMMEP and TMS presented to SPC	June 21, 2018
RMMEP and TMS presented to CLG	June 26, 2018
Project Team developing draft policy approaches	July to October 2018
Draft policy approaches presented to IMG/CLG	November 7/8, 2018
Draft policy approaches presented to SPC	December 6, 2018
Draft policy text presented to SPC	June 20, 2019
Draft policy text presented to IMG/CLG	Late June 2019
Revised policies presented to SPC	September 5, 2019
Revised policy pre-consultation with agencies and municipalities	September 9 – October 28, 2019
Updated AR/SPP (includes revised policies) presented to SPC	December 5, 2019
Formal Public consultation of updated AR/SPP	January 2 – February 16, 2020
Revised AR/SPP presented to SPC and released to SPA	March 12, 2020
SPA submits updated AR/SPP to MECP	March, 2020

Next Steps

The Project Team will continue working on developing municipal-specific water quantity policy text. Lake Erie Region is committed to a collaborative process for policy development, with municipal and stakeholder engagement through the Project Team, Implementing Municipalities Group (IMG), and Community Liaison Group (CLG). Draft water quantity policy text is anticipated to be presented to the Source Protection Committee on June 20, 2019. The CLG and IMG would receive the draft water quantity policy text in late June, 2019.

Prepared by:



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Approved by:



Martin Keller, M. Sc.
Source Protection Program Manager

Prepared by:



Sonja Strynatka, P.Geol.
Senior Hydrogeologist

LAKE ERIE REGION SOURCE PROTECTION COMMITTEE

REPORT NO. SPC-19-04-03

DATE: April 4, 2019

TO: Members of the Lake Erie Region Source Protection Committee

SUBJECT: Otterville Wellfield Wellhead Protection Area and Issue Contributing Area Update

RECOMMENDATION:

THAT the Lake Erie Region Source Protection Committee receives report SPC-19-04-03 – Otterville Wellfield Wellhead Protection Area and Issue Contributing Area Update – for information.

THAT the Lake Erie Region Source Protection Committee support the staff recommendation to identify nitrate as an Issue and add a nitrate Issue Contributing Area (ICA) to the Otterville wellfield.

AND THAT the Lake Erie Region Source Protection Committee direct staff to incorporate the results of the Otterville Wellfield Wellhead Protection Area and Issue Contributing Area Technical Study into the Draft Updated Long Point Region Assessment Report and Source Protection Plan.

SUMMARY:

Using the Long Point Region Tier 3 groundwater model (Tier 3 model), the main objectives for this technical study were to update the Wellhead Protection Areas (WHPAs) and vulnerability scoring, delineate a nitrate Issue Contributing Area (ICA) for the Otterville wellfield, and complete a drinking water threats and Issues evaluation for the Otterville wellfield. As the last WHPA update was in 2002, the Tier 3 model represents updates to the local geology and hydrogeology and revised municipal pumping rates.

Results are recommended to be incorporated into the update to the Draft Updated Long Point Region Assessment Report and Source Protection Plan.

REPORT:

Municipal System

The Village of Otterville is located in southwestern Ontario, within the Township of Norwich in Oxford County. Otterville is located within the Long Point Region watershed and is a part of the Long Point Region Source Protection Area.

Otterville relies on groundwater to meet its municipal water demand. Two municipal production wells form the Otterville Wellfield (Well 3 and Well 4) and are located to the east of the Village of Otterville on the north side of Otterville Road (**Figure 1**). The wells are completed within a shallow unconfined overburden aquifer with screen depths approximately 13 m below ground surface.



Figure 1: Otterville Municipal Well Locations

Wellhead Protection Areas

WHPAs were last delineated in 2002 using a numerical groundwater flow model originally created for the Phase II Groundwater Protection Study for Oxford County. In 2015, the Tier 3 Water Budget Assessment for the Long Point Region was completed and included the development of a numerical groundwater flow model. The Tier 3 groundwater flow model is the most current model for the area and is based on updated local and regional characterization work. While the community of Otterville is located within the model domain, pumping from the Otterville municipal wells was not represented in the original Tier 3 model. As such, for the current WHPA study, the Tier 3 model was locally refined and calibrated to ensure it was suitable to generate capture zones for Otterville Wells 3 and 4.

The total pumping rate assigned to the Otterville municipal wells for the WHPA delineation (360 m³/day) was provided by Oxford County and represents an approximate 16.5% increase over recent average pumping rates (2012 to 2016). This increase in total municipal demand is consistent with planned growth for Otterville. The final pumping rate used in the model was 180 m³/day each for municipal Well 3 and 4; the 50/50 split in demand between the two wells is consistent with the proportion of takings between the two wells from 2012 and 2016. **Table 1** summarizes these revised 2019 WHPA pumping rates, alongside the rates used to delineate WHPAs in 2002, and average pumping rates.

Table 1: Summary of Otterville Wellfield WHPA Pumping Rates

Well Name	2001 Original WHPA Pumping Rate (m ³ /day)	2012 to 2016 Average Pumping Rate	2019 Revised WHPA Pumping Rate (m ³ /day)
Well 3	111	155	180
Well 4	99	155	180
Total	210	310	360

The 2019 WHPAs are presented in **Figure 2** with a comparison to the 2002 WHPAs. The final shape and orientation of the WHPAs for the Otterville municipal wells are slightly different compared to those developed in 2002. The total length of the previous and current WHPAs are comparable; however, the current WHPAs extend in a more easterly direction, with a greater width. These differences can be attributed to changes in the following:

- uncertainty assessment,
- conceptual hydrostratigraphy ,
- hydrogeologic parameters values applied (e.g., hydraulic conductivity and recharge),
- municipal and non-municipal pumping rates.

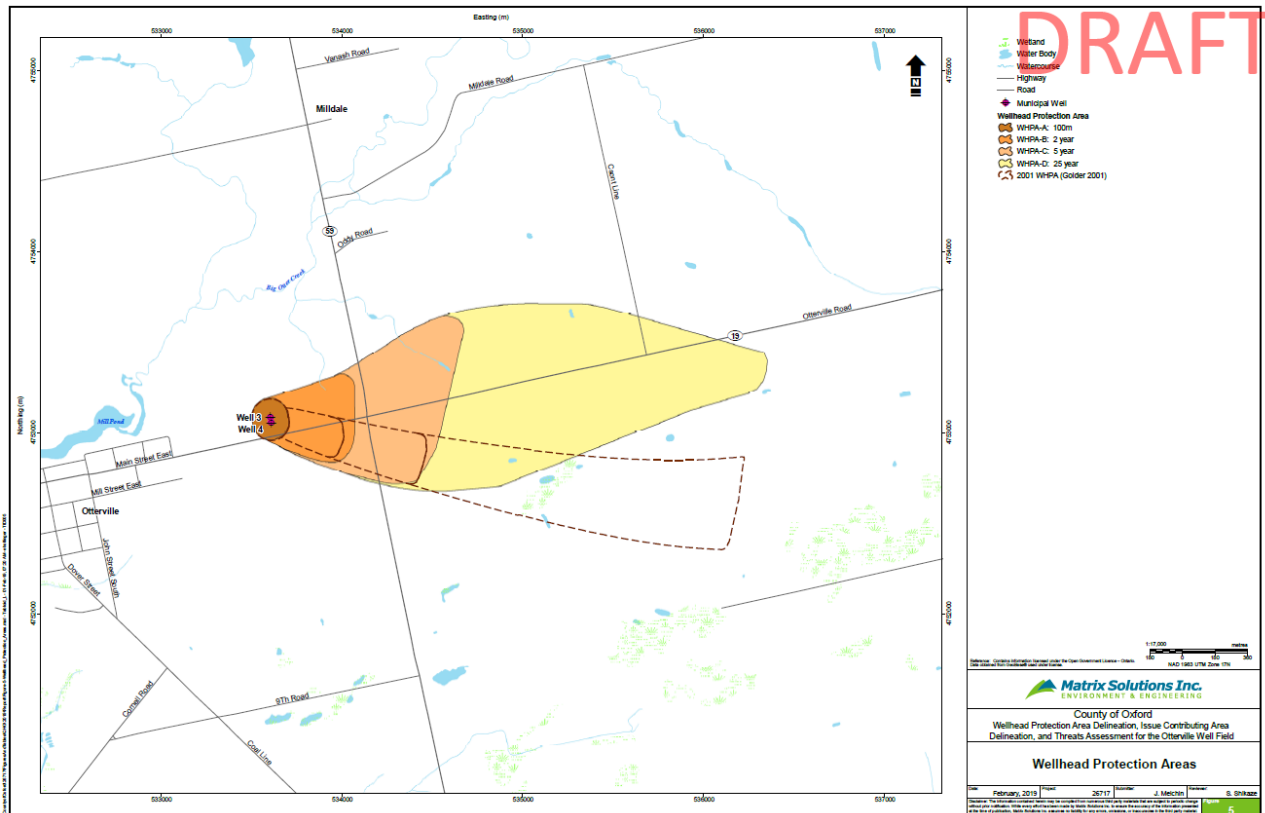


Figure 2: Comparison of 2002 and 2019 Otterville WHPAs

Final WHPAs with vulnerability scoring based on AVI vulnerability mapping are presented in **Figure 3**. AVI stands for Aquifer Vulnerability Index and is one of the approved assessment

methods under the Technical Rules. As all the WHPAs are located within an area of high aquifer vulnerability, each WHPA received the maximum vulnerability score: 10 (WHPA-A and WHPA-B), 8 (WHPA-C), and 6 (WHPA-D).

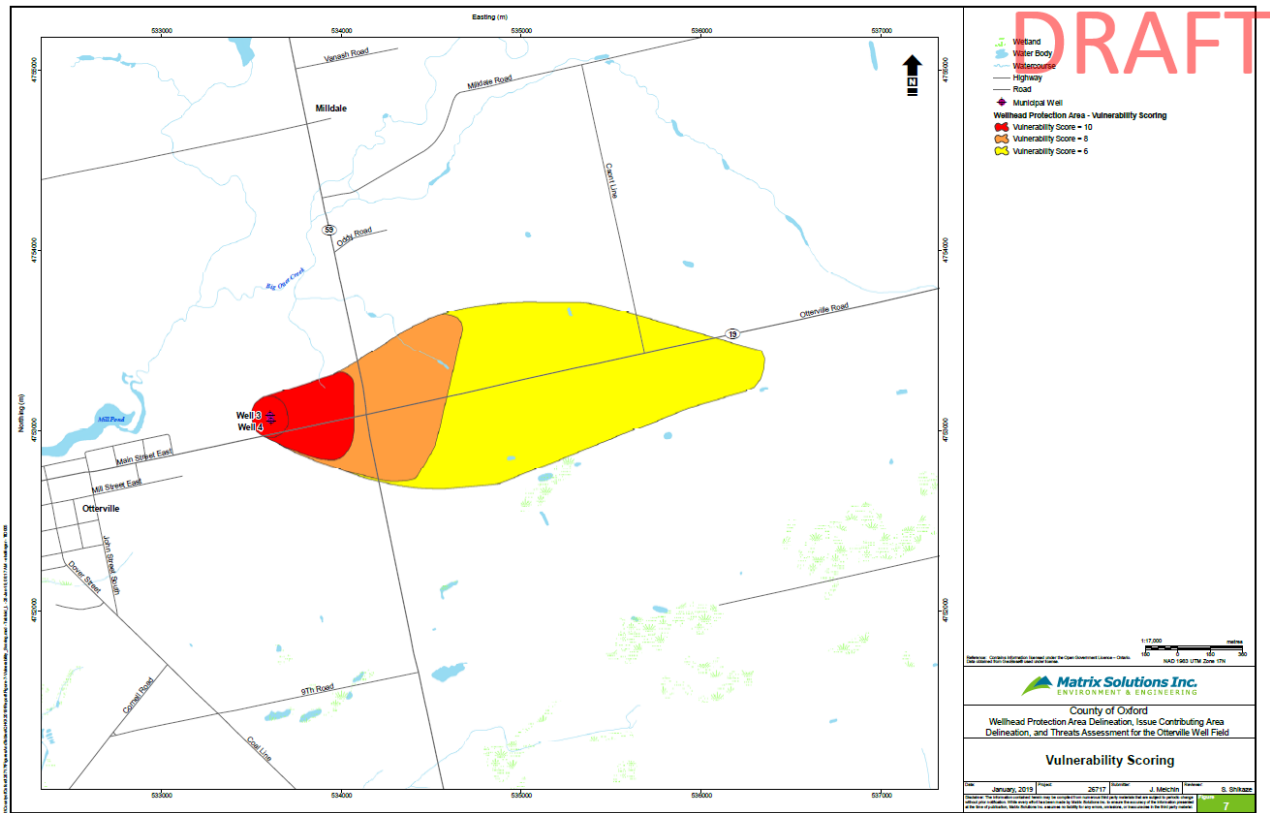


Figure 3: Final Vulnerability Scoring for Otterville WHPAs

Issues Evaluation

A 2009 Issues evaluation found no health-related parameters as Issues. However, a review of more recent analytical data (2010-2018) revealed that quarterly nitrate concentrations from effluent at the Otterville Water Treatment Facility began to exceed 5 mg/L (50% of the MAC (Maximum Acceptable Concentration) for nitrate) in 2012 (**Chart 1**). Since 2012, nitrate concentrations in the treated effluent have consistently remained above 5 mg/L, but below 10 mg/L (the MAC for nitrate).

Regular sampling of nitrate in the raw water from Otterville Wells 3 and 4 began in late 2016. With some limited exceptions at Otterville Well 3, results from these samples have consistently shown nitrate concentrations between 5 and 10 mg/L. Analysis of four consecutive weekly samples of raw water from Otterville Well 4 showed concentrations of nitrate exceeding the MAC. Based on these results and the observed trend shown in **Chart 1** below, nitrate is recommended to be identified as an Issue at the Otterville Wellfield.

In the summer of 2017 the Otterville Wells no longer provided water to residents, however the wells continue to be pumped for a few hours daily (maximum four hours) and sampled for

nitrate. Nitrate levels have remained around 7 mg/L from 2017 to 2019. It is thought that nitrate concentrations have increased in groundwater at the Otterville Wellfield due to the many agricultural practices surrounding the wellfield. Currently, most agricultural fields in the area are being planted with vegetable crops, however in the past 10 years ginseng was heavily grown in the area.

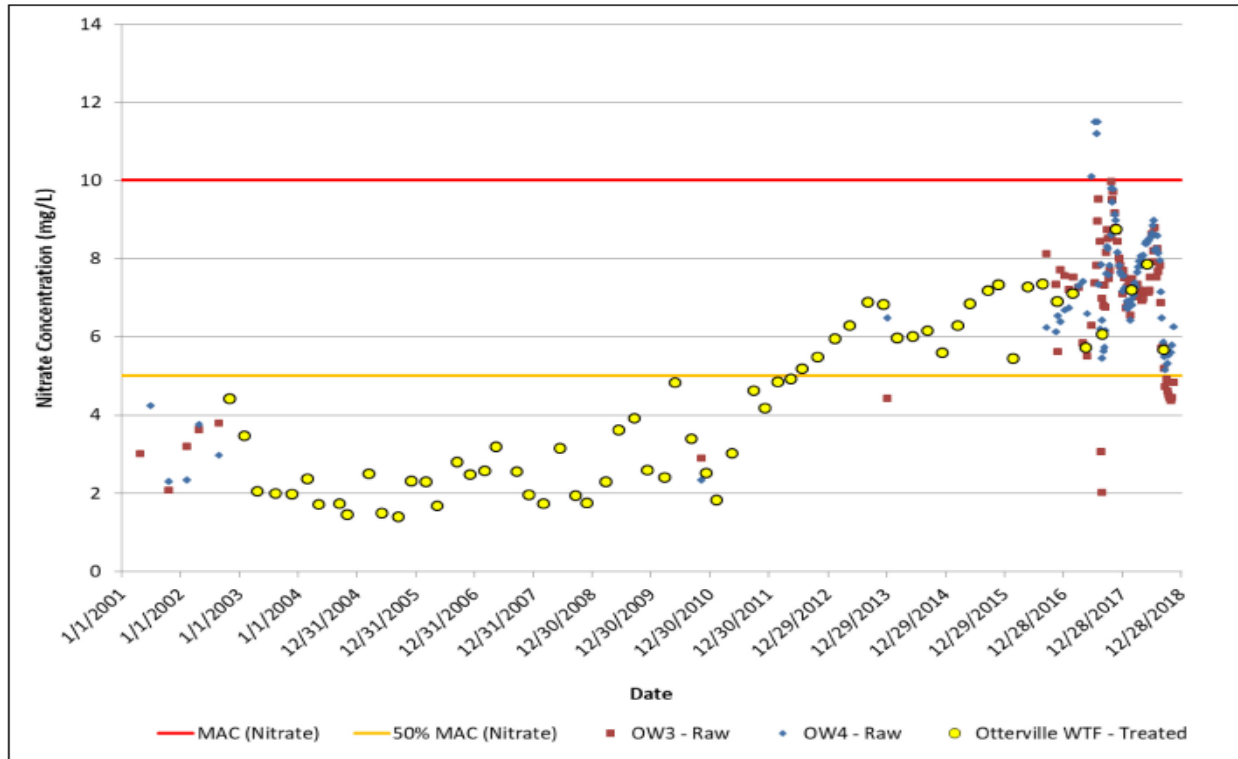


Chart 1: Nitrate Concentrations at the Otterville Wellfield (2001 to 2018)

Delineation of Issue Contributing Area

With the identification of nitrate as an Issue for Otterville Wells 3 and 4, an ICA was delineated for these wells. The shape and extent of the nitrate ICA (**Figure 4**) is slightly different than the WHPA-A to WHPA-D area (**Figure 2**) as the ICA reflects the Otterville wells pumping at current average rates rather than future rates. Additionally, the ICA reflects groundwater flow within a maximum of 60 years rather than 25 years, which was used for the WHPA-D delineation.

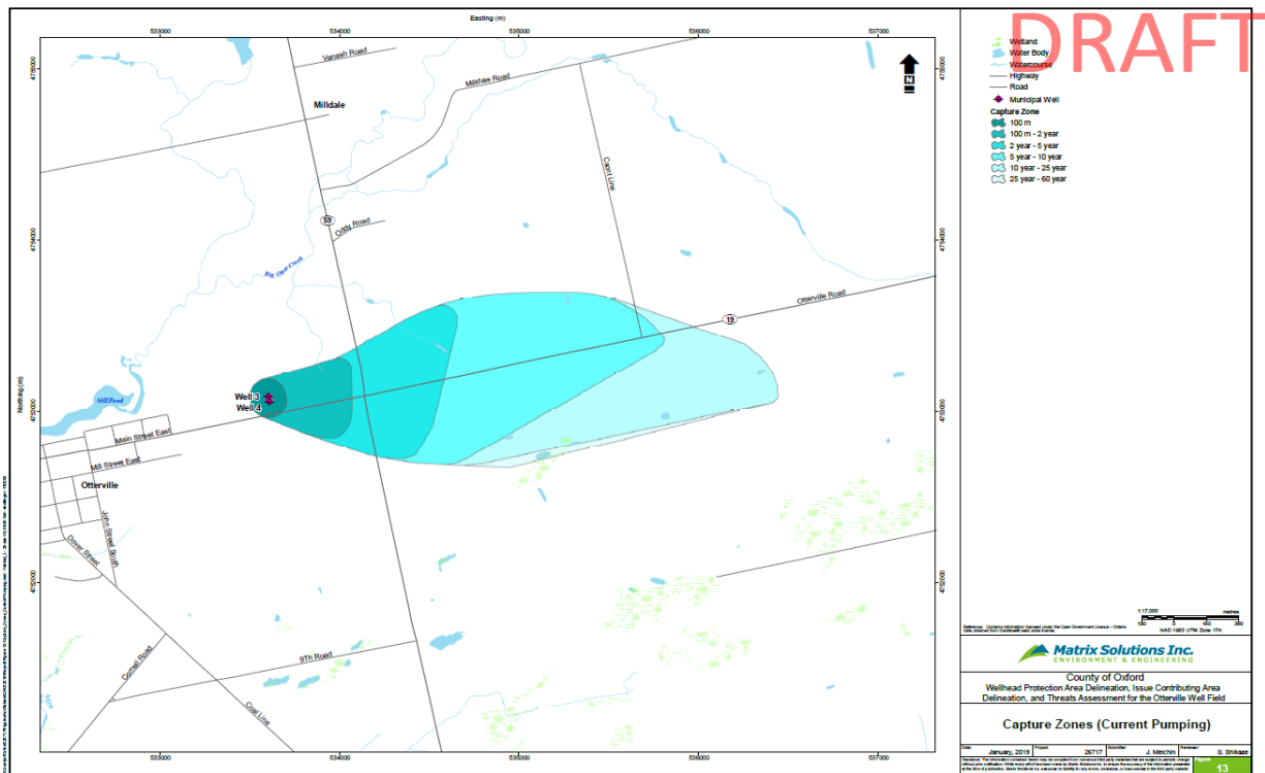


Figure 4: Otterville Wellfield Nitrate Issue Contributing Area

Water Quality Threats Assessment

A water quality threats assessment was completed to identify significant threats and included an assessment of managed lands, livestock density, impervious surfaces, threat activities, conditions, and issues. In total, 27 activity-based significant threats were enumerated on 25 properties in WHPA-A, WHPA-B, and WHPA-C of the Otterville wellfield. No potential condition-based threats were identified through the review of available data sources.

The nitrate ICA delineated for the Otterville wellfield had 79 threat activities associated with it which were identified on 25 properties, with 15 of these threats already identified as significant activity-based threats. In summary, a total of 91 significant threats on 25 properties were identified within the Otterville WHPAs and ICA, compared to a total of 22 significant threats on 5 properties in the approved Long Point Region assessment report (**Table 2**).

Table 2: Threats for the Otterville WHPA and ICA

Prescribed Drinking Water Threat Number	Threat Subcategory	Number of Activities	Vulnerable Area
1	Waste Disposal Site - Landfilling (Municipal Waste)	1	WHPA-A WHPA-B WHPA-C
2	Sewage System Or Sewage Works - Septic System	22	WHPA-A WHPA-B ICA

Prescribed Drinking Water Threat Number	Threat Subcategory	Number of Activities	Vulnerable Area
3	Application of Agricultural Source Material to Land	18	WHPA-A WHPA-B ICA
4	Storage of Agricultural Source Material	9	WHPA-A WHPA-B ICA
8	Application Of Commercial Fertilizer To Land	18	ICA
9	Storage Of Commercial Fertilizer	9	WHPA-A WHPA-B ICA
10	Application Of Pesticide To Land	4	WHPA-A WHPA-B
11	Storage Of A Pesticide	2	WHPA-A WHPA-B
12	Application of Road Salt	0	
15	Handling & Storage of Fuel	3	WHPA-A WHPA-B
16	Handling & Storage of DNAPL	1	WHPA-B
21	Management or Handling of Agricultural Source Material	2	ICA
22	Establishment and operation of a liquid hydrocarbon pipeline	2	WHPA-A WHPA-B
Total Number of Activities		91 (22)	
Total Number of Properties		25 (5)	

Next Steps

The results of this study are recommended to be incorporated into the Long Point Region Assessment Report and Source Protection Plan as part of the next Section 34 update. Lake Erie Region staff, together with Oxford County municipal staff, will review the current source protection plan policies and bring forward revisions, where necessary, to a future Source Protection Committee meeting.

Prepared by:



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Source Water Hydrogeologist

Approved by:



Martin Keller, M. Sc.
Source Protection Program Manager

LAKE ERIE REGION SOURCE PROTECTION COMMITTEE

REPORT NO. SPC-19-04-04

DATE: April 4, 2019

TO: Members of the Lake Erie Region Source Protection Committee

SUBJECT: Catfish Creek Annual Progress Report

RECOMMENDATION:

THAT the Lake Erie Region Source Protection Committee receives report SPC-19-04-04 – Catfish Creek Annual Progress Report - for information.

THAT in the opinion of the Lake Erie Region Source Protection Committee, implementation of the Catfish Creek Source Protection Plan has progressed well and is on target towards achieving the plan objectives.

AND THAT the Lake Erie Region Source Protection Committee direct staff to finalize the draft Catfish Creek Annual Progress Report and Supplemental Form and annual reporting objectives letter for submission to the Catfish Creek Source Protection Authority for submission to the Ministry of the Environment, Conservation and Parks, along with any Source Protection Committee comments, in accordance with S.46 of the *Clean Water Act, 2006* and any Director's instructions established under O. Reg. 287/07 S.52.

REPORT:

Background

In accordance with Ontario Regulation 287/07 s.52, all four Lake Erie Region Source Protection Authorities (Grand River, Long Point Region, Kettle and Catfish Creek) are required to submit an Annual Progress Report to the Director by May 1 in the year following the year to which the report applies. Both the Ministry of the Environment, Conservation and Parks' (MECP) Source Protection Annual Progress Report and the Supplemental Form are to be submitted as they are considered "prescribed forms" under O. Reg. 287/07 s.52(5). The first Grand River and Long Point Region, and second Kettle Creek and Catfish Creek Annual Progress Reports and Supplemental Forms are due for submission to the MECP in May 2019.

Annual Progress Report and Supplemental Form

The Catfish Creek Annual Progress Report is a public-facing document developed by the MECP and prepared by Lake Erie Region. The report provides valuable information about the implementation of the Catfish Creek Source Protection Plan and the overall success of the program (**Appendix A**). The Catfish Creek Annual Progress Report reflects implementation efforts from the previous calendar year, January 1, 2018 to December 31, 2018.

Information presented in the progress report is intended to be a high-level reflection of annual reporting results collected through the Catfish Creek Supplemental Form. The Supplemental Form is a tool to collect key information from implementing bodies to help convey the story of progress made in the Catfish Creek Source Protection Area using a series of questions (**Appendix B**).

The Supplemental Form includes two questions that require Source Protection Committee input (SPC): the first, the committee’s opinion on the extent to which objectives in the plan have been achieved during the reporting period and the second, comments to explain how the committee arrived at its opinion.

Lake Erie Region staff have reviewed the results of the Supplemental Form and Annual Progress Report and recommend the following responses:

Question ID 350

In the opinion of the Source Protection Committee, to what extent have the objectives of the source protection plan been achieved in this reporting period?

Progressing well/on target – the majority of the source protection plan policies have been implemented and/or are progressing well.	✓
Satisfactory - Some of the source protection plan policies have been implemented and/or are progressing well.	
Limited progress made - A few of source protection plan policies have been implemented and/or are progressing well.	

Question ID 351

Please provide comments to explain how the Source Protection Committee arrived at its opinion. Include a summary of any discussions that might have been had amongst the Source Protection Committee members, especially where no consensus was reached.

Nineteen existing significant drinking water threats were identified in the Catfish Creek Source Protection Area when the plan took effect. Since implementation of the plan, 93% of confirmed significant drinking water threats have been addressed with only one outstanding threat remaining. Additionally, all applicable plan policies that address significant drinking water threats are implemented or in progress.

Annual Reporting Letter to SPA

In addition to the annual progress reports, Lake Erie Region staff have drafted an annual reporting letter to be submitted to the Catfish Creek Source Protection Authority in accordance with the Lake Erie Region’s annual progress reporting administrative protocol (**Appendix C**). The letter includes comments about the extent to which objectives set out in the source protection plan are being achieved and will include any additional committee comments.

Prepared by:



Ilona Feldmann
Source Protection Program Assistant

Approved by:



Martin Keller, M. Sc.
Source Protection Program Manager

Appendix A

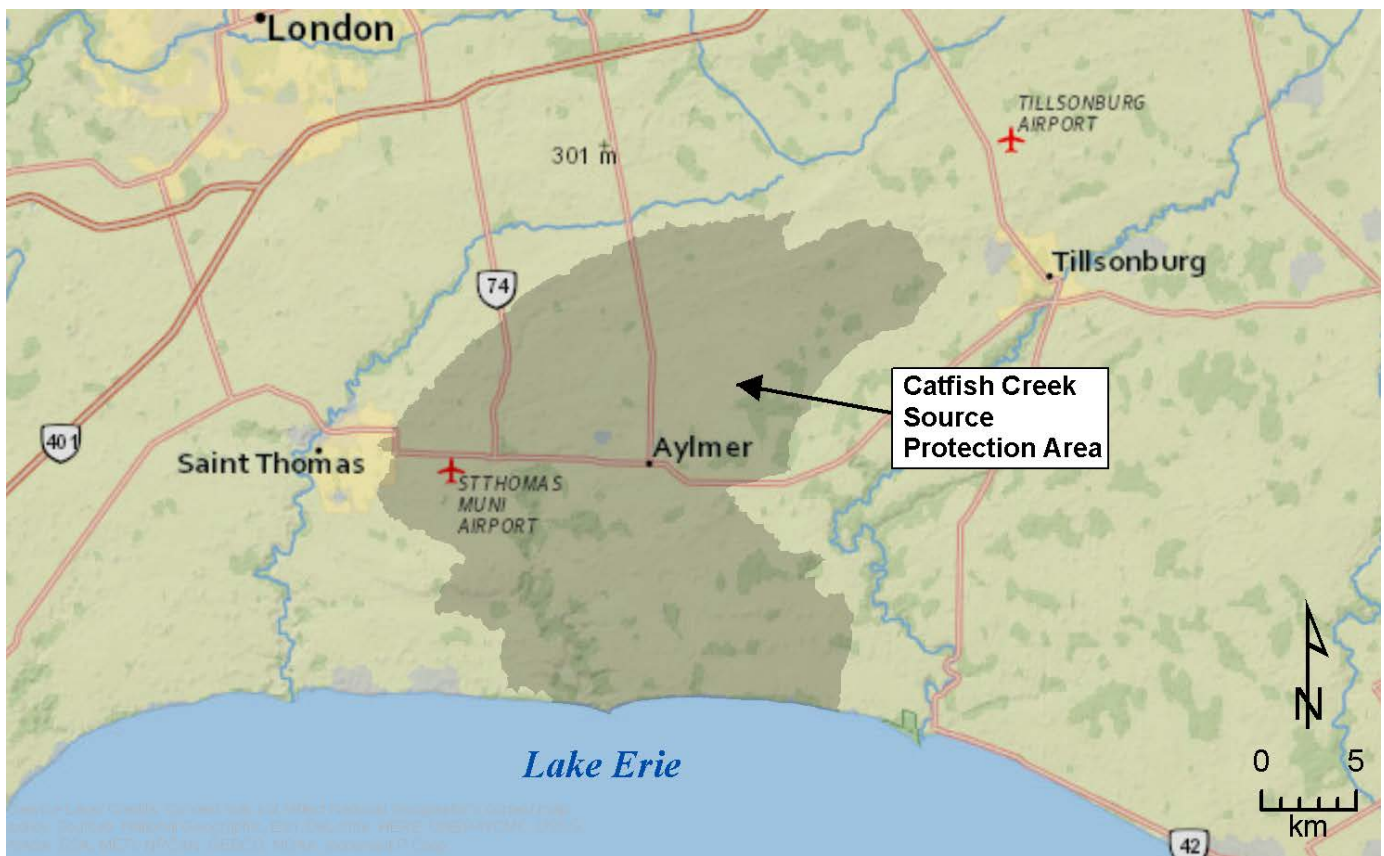
Catfish Creek Annual Progress Report

Source Protection Annual Progress Report | 04/04/2019

I. Introduction

This annual progress report outlines the progress made in implementing the source protection plan for the **Catfish Creek Source Protection Area**, as required by the Clean Water Act and regulations.

We acknowledge and recognize the tremendous efforts made by our local municipality, stakeholders and Source Protection Committee in the development of the Source Protection Plan and implementation of Source Protection policies.



II. A message from your local Source Protection Committee

Our progress score on achieving source protection plan objectives this reporting period:

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

Nineteen existing significant drinking water threats were identified in the Catfish Creek Source Protection Area when the plan took effect. Since implementation of the plan, 93% of confirmed significant drinking water threats have been addressed with only one outstanding threat remaining. Additionally, all applicable plan policies that address significant drinking water threats are implemented or in progress.

III. Our Watershed

To learn more, please read our assessment report(s) and source protection plan(s).

The Catfish Creek Source Protection Area (watershed) includes Catfish Creek and its tributaries. These watercourses drain 490 square kilometres of agricultural and urban lands before entering Lake Erie at Port Bruce. The area includes parts of Elgin and Oxford counties.

The watershed has one municipal drinking water system in the village of Brownsville in the Township of Southwest Oxford. The system is comprised of two wells serving about 300 people. A number of communities are also serviced with municipal water from the Elgin Area Primary Water Supply.

Nineteen significant drinking water threat activities were identified in the Catfish Creek Source Protection Area when the plan went into effect, all within a 100 metre radius around the well. Since that time all but one significant drinking water threat has been addressed.

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

1. Source Protection Plan Policies

P: Progressing Well/On Target

All of the applicable legally binding policies (100%) that address significant drinking water threats are implemented or in progress / some progress made.

2. Municipal Progress: Addressing Risks on the Ground

One municipality (Oxford County) in the Catfish Creek Source Protection Area has vulnerable areas where significant drinking water threat policies apply.

P: Progressing Well/On Target - Oxford County is required to review and update their Official Plan to ensure it conforms with the Catfish Creek Source Protection Plan the next time they undertake an Official Plan review under the Planning Act. Oxford County is in the process of amending its Official Plan.

3. Septic Inspections

P: Progressing Well/On Target

No on-site sewage systems have been inspected in accordance with the Ontario Building Code; 100% of the required inspections were carried out in the previous reporting year.

4. Risk Management Plans

P: Progressing Well/On Target

In the previous calendar year, no risk management plans were established in the Catfish Creek Source Protection Area; however one risk management plan is under negotiation. Since the source protection plan took effect, no risk management plans have been established.

5. Provincial Progress: Addressing Risks on the Ground

P: Progressing Well/On Target

Ontario ministries are reviewing 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 the Catfish Creek Source Protection Plan to address existing activities that pose a significant risk to sources of drinking water. The provincial approvals are being amended or revoked where necessary to conform with plan policies. Catfish Creek Source Protection Plan policies set out a time line of 3 years to complete the review and make any necessary changes. The ministries have completed this for 100% of previously issued provincial approvals in the Catfish Creek Source Protection Area.

6. Source Protection Awareness and Change in Behaviour

No Drinking Water Protection Zone signs that have been installed in the Catfish Creek Source Protection Area since the plan took effect.

The Risk Management Official/Risk Management Inspector have noted a change in property owner behaviour during site inspections. People appear interested in protecting source water and are willing to change out chemicals for more environmentally-sensitive options.

7. Source Protection Plan Policies: Summary of Delays

Not applicable to the Catfish Creek Source Protection Area.

8. Source Water Quality: Monitoring and Actions

In the Catfish Creek Source Protection Area, no issues have been identified in the local science-based assessment report regarding the quality of the source(s) of municipal drinking water.

9. Science-based Assessment Reports: Work Plans

A Section 36 workplan for updates to the assessment report was submitted to the province for review in November 2018. The workplan did not include technical work for Tier 3 water budgets, GUDI for WHPA-E or F, or delineation/update of Issue Contributing Areas (ICAs).

10. More from the Watershed

To learn more about the Catfish Creek Source Protection Area, visit <http://www.sourcewater.ca>

Appendix B

Catfish Creek Annual Progress Reporting Supplemental Form



Source Water Protection Annual Report

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Catfish Creek

Report Id	Completed	Question
10	True	As applicable to your source protection region/area, indicate if the relevant implementing bodies submitted a status update/annual report to the source protection authority for the previous reporting year. If "No" is selected for any implementing body(ies), then please complete the Comments field below with details including the name of the specific implementing body along with an explanation, if available, for not submitting a status update/annual report as required by a monitoring policy.

Response	Answer
Risk Management Official	Yes
Municipality	Yes
Conservation Authority	No
Local Health Unit	No
MECP - Waste Disposal Sites - Landfilling and Storage	Yes
MECP - Wastewater/Sewage Works	Yes
MECP - Pesticides	Yes
MECP - Hauled Sewage/Biosolids	Yes
MECP - Permit to Take Water	Yes
MECP - Municipal Residential Drinking Water Systems	Yes
OMAFRA	Yes
MNRF	No
MTO	No
MMAH	No
MGCS-TSSA	No
Provincial Board/Commission	No
Federal Departments/Agencies/Commissions/Crown Corporations	No
Private Entity/Company	No
Association/Organization	No
MECP - Other Policies	Yes
MECP - Waste Disposal Sites - Landfilling and Storage Inspections	Yes
MECP - Wastewater/Sewage Works Inspections	Yes
MECP - Conditions Sites	Yes



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MECP - NMA - ASM and NASM Inspections

Yes

MENDM

No

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Catfish Creek

Report Id	Completed	Question	Category
20	True	Did the Source Protection Authority (i) indicate the status of all threat policies as contained in their source protection plan by using one of the two options outlined in the guidance document (ID 20a) AND (ii) complete the table to indicate which implementing body(ies) have not yet made any progress in policy implementation in reportable ID 20b?	Implementation status of source protection plan policies
Answer:		No	

Comment: The Catfish Source Protection Authority indicated the status of all threat policies by using one of the two options as outlined in the guidance document: the implementation of various policies captured in the tables provided in the annual progress reporting supplemental form. The Source Protection Authority has not indicated the specific implementation status of each policy. Lake Erie Region staff are working with the ministry to complete this outstanding annual reporting requirement.

Report Id	Completed	Question	Category
30	True	Number of risk management plans agreed to or established within the source protection area/region (for existing and future threats) during the reporting period (i.e., annual total).	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
31	True	Number of properties (i.e., parcels) with risk management plans agreed to or established for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:



Source Water Protection Annual Report

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Report Id	Completed	Question	Category
32	True	How many existing* significant drinking water threats have been managed through the established risk management plans for this reporting period (* meaning engaged in OR enumerated as existing significant threats)?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
40	True	How many section 59 notices were issued in this reporting period for activities to which neither a prohibition (section 57) nor a risk management plan (section 58) policy applied, as per ss. 59(2)(a) of the Clean Water	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
41	True	How many section 59 notices were issued in this reporting period for activities to which a risk management plan (section 58) policy applied, as per ss. 59(2)(b) of the Clean Water Act?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Catfish Creek

Report Id	Completed	Question	Category
50	True	For the purposes of section 61 of O. Reg. 287/07, how many notices and/or copies of prescribed instruments that state the prescribed instrument conforms with the significant drinking water threat policies in the source protection plan (i.e., statement of conformity confirms the instrument holder is exempt from requiring a risk management plan) did the risk management official receive?	Part IV (Sections 57, 58 & Section 59)
Answer:	0		

Comment:

Report Id	Completed	Question	Category
60	True	State the total number of inspections (including any follow-up site visits) that were carried out for activities (existing or future) that are prohibited under section 57 of the Clean Water Act for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:	0		

Comment:

Report Id	Completed	Question	Category
61	True	How many properties (i.e., parcels) had inspections for the purposes of section 57 for this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:	0		

Comment:



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Report Id	Completed	Question	Category
62	True	Among the inspections conducted for section 57, how many showed that activities were taking place on the landscape even though they were prohibited (i.e., in contravention) under section 57 of the Clean Water Act for this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
70	True	How many existing significant drinking water threats have been prohibited as a result of section 57 prohibitions in this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
80	True	State the total number of inspections (including any follow-up site visits) that were carried out for activities that require a risk management plan under section 58 of the Clean Water Act for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Catfish Creek

Report Id	Completed	Question	Category
81	True	How many properties (i.e., parcels) had inspections for the purposes of section 58 for this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
82	True	Among the inspections conducted for section 58, how many were in contravention with section 58 of the Clean Water Act for this reporting period (i.e., person engaging in a drinking water threat activity without a risk management plan as required by the source protection plan)?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
83	True	Among the inspections for section 58, how many were in non-compliance with the specific contents of the risk management plan for this reporting period? (NOTE: Please only include those inspections that showed non-compliance with measures/conditions to manage the actual threat activity.)	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:



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Report Id	Completed	Question	Category
84	True	State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 57 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
85	True	State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 58 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
86	True	State the total number of orders issued for contraventions and/or non-compliance found with section 57 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Catfish Creek

Report Id	Completed	Question	Category
87	True	State the total number of orders issued for contraventions and/or non-compliance found with section 58 for this reporting period.	Part IV (Sections 57, 58 & Section 59)

Answer: 0

Comment:

Report Id	Completed	Question	Category
90	True	[OPTIONAL]: What new/additional knowledge (e.g., threats, transport pathways, abandoned wells, etc. and how they are managed), if any, did the lead source protection authority gain through communication with their Risk Management Official/Risk Management Inspector, based on the Risk Management Official/Risk Management Inspector's work in the field?	Part IV (Sections 57, 58 & Section 59)

Answer: Catfish Creek Source Protection Authority will not be providing responses to optional questions.

Comment:

Report Id	Completed	Question	Category
220	True	Did the Source Protection Authority complete the Land Use Planning reportable using the 2018 EAR Excel Workbook which can be downloaded from the FAQ section of the EAR navigation bar?	Land Use Planning

Answer: Yes

Comment:



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Report Id Completed Question

230 True Indicate the methods by which education and outreach policies have been/are being implemented in the source protection region/area for the reporting period by all the relevant implementing bodies from the checklist below. Choose all that apply.

Response	Answer
use of educational materials for general public (e.g., “Source Water Protection - 2018 resources” on Conservation Ontario’s website)	Yes
use of educational materials for target audiences including developers, builders, landowners, farmers, etc. (e.g., “Source Water Protection - 2018 resources” on Conservation Ontario’s website)	Yes
workshops	No
site visits	Yes
source protection content for websites	Yes
educational videos (e.g., Drinking Water Source Protection video available Conservation Ontario)	No
podcasts	No
collaboration with other bodies (e.g., ministries, local organizations, etc.)	No
social media promotion (e.g., use of Facebook, Twitter, Instagram, etc.)	No
media advertising (e.g., print media, radio, television) in news media and/or industry/stakeholder specific publications	No
integration with other outreach programs or campaigns (e.g., Community Environment Days, etc.)	No
articles in publications	No
information kiosks at events/festivals	No
methods for implementing Education and Outreach not yet determined	No

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Catfish Creek

Report Id Completed Question

231 True From among the method(s) used to implement education and outreach policies by the source protection authority or by other local bodies (e.g., municipalities), indicate the top three used that were found to be the most successful in meeting the intent of education and outreach policies. Briefly explain how success was evaluated and any results achieved in the Comments field below.

Response	Answer
use of educational materials for general public (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website)	Yes
use of educational materials for target audiences including developers, builders, landowners, farmers, etc. (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website)	Yes
workshops	No
site visits	Yes
source protection content for websites	No
educational videos (e.g., Drinking Water Source Protection video available Conservation Ontario)	No
podcasts	No
collaboration with other bodies (e.g., ministries, local organizations, etc.)	No
social media promotion (e.g., use of Facebook, Twitter, Instagram, etc.)	No
media advertising (e.g., print media, radio, television) in news media and/or industry/stakeholder specific publications	No
integration with other outreach programs or campaigns (e.g., Community Environment Days, etc.)	No
articles in publications	No
information kiosks at events/festivals	No

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Catfish Creek

Report Id	Completed	Question	Category
250	True	[OPTIONAL]: If applicable to the source protection region/area, in the response box below, briefly summarize the type of incentive(s) (e.g., prescribed instrument application fees waived, funding, other non-financial incentives, etc.) that was made available (whether as a policy in the source protection plan or not), the source that provided the incentive(s), the prescribed drinking water threat activity(ies) to which it relates, and the degree to which the incentive(s) assisted with the implementation of source protection plan policies that address significant drinking water threat activity(ies) (i.e., Full degree, Significant/large degree, Moderate degree, Some degree, or Limited degree) in your source protection region/area.	Incentives
Answer:		Catfish Creek Source Protection Authority will not be providing responses to optional questions.	

Comment:

Report Id	Completed	Question	Category
260	True	How many on-site sewage systems in the source protection area require inspections in accordance with the Ontario Building Code (i.e., once every five years)?	Sewage System Inspections
Answer:		9	

Comment:

Report Id	Completed	Question	Category
261	True	Of those requiring inspections, how many on-site sewage systems (identified as significant drinking water threats) were inspected for this reporting period?	Sewage System Inspections
Answer:		0	

Comment:



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Report Id **Completed** **Question**

262 True If not all required on-site sewage systems were inspected, please indicate why they were not all inspected from among the options below:

Response	Answer
on-site sewage system(s) is newly constructed and therefore not captured in the first round of inspections	No
landowner refused entry, compliance order being sought	No
municipality has not yet initiated inspection program	No

Comment:



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Report Id	Completed	Question	Category
263	True	How many of the on-site sewage systems inspected required minor maintenance work (e.g., pump out, etc.)?	Sewage System Inspections
Answer:	0		

Comment:

Report Id	Completed	Question	Category
264	True	How many of the on-site sewage systems inspected required major maintenance work (e.g., tank replacement, etc.)?	Sewage System Inspections
Answer:	0		

Comment:

Report Id	Completed	Question	Category
270	True	If applicable to the source protection region/area, did the Source Protection Authority complete the reportable on the environmental monitoring of drinking water issues using the 2018 EAR Excel workbook file which can be downloaded from the FAQ section of the EAR navigation bar? Choose "No" if not applicable and indicate as such in the Comments box below.	Environmental monitoring for drinking water issues
Answer:	No		

Comment: This question is not applicable.



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Report Id	Completed	Question	Category
280	True	How many notices about transport pathways (meaning a condition of land resulting from human activity (e.g., pits and quarries, improperly abandoned wells, geothermal system, etc.) that increases the vulnerability of a raw water supply of a drinking water system) did the source protection authority receive from municipalities in this reporting period (as per O. Reg. 287/07, ss. 27(3))?	Transport pathways
Answer:	0		
Comment:			



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Report Id **Completed** **Question**

281 True Where transport pathway notices were received, indicate the action(s) taken by the source protection region/area in response to receiving these notices:

Response	Answer
Provided information to municipalities about changes in vulnerability	No
Provided notice to Source Protection Committee for information	No
Situation continues to be monitored	No

Comment: No transport pathway notices were received.



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Report Id **Completed** **Question**

290 True [OPTIONAL]: Indicate specific actions taken by any person or body to reduce the impacts that transport pathways could have on sources of drinking water.

Response	Answer
Funding made available for proper well decommissioning	No
Municipality decommissioning wells in accordance with O. Reg. 903	No
Private landowners decommissioning wells in accordance with O. Reg. 903	No

Comment: Catfish Creek Source Protection Authority will not be providing responses to optional questions.



Source Water Protection Annual Report 2018 - Supplemental Form Catfish Creek

Report Id Completed Question

300 True [OPTIONAL]: If and where there are successful examples for each of the following initiatives in the source protection region/area (including from local municipalities, residents and businesses) that the authority wishes to highlight, then please indicate in the Comments field below. In your comments, please include details for each of the selected topics. Please limit the descriptions provided (e.g., one example for each topic or more could be included when the source protection authority feels they are exceptional/quite successful.

Response	Answer
Education and Outreach (in description include details, if available, on type and percentage of target population reached, outcome(s) achieved, etc.)	No
Incentives (in description include details, if available, on outcome(s) achieved, how widely available was the incentive, etc.)	No
Stewardship Programs	No
Best Management Practices	No
Pilot Programs	No
Research	No
Specify Action (e.g., road salt management, municipal by-laws, legislative or regulatory amendments, mapping, review of fuel codes, new airport facility design standards to manage runoff of chemicals from de-icing of aircraft, instrumentation, etc.)	No
Climate Change (e.g., data collection)	No
Spill prevention/spill contingency/emergency response plan updates	No
Transport pathways	No
Water quantity	No
Great Lakes	No
Other policies (i.e., strategic action, etc.)	No

Comment: Catfish Creek Source Protection Authority will not be providing responses to optional questions.



Source Water Protection Annual Report 2018 - Supplemental Form Catfish Creek

Report Id	Completed	Question	Category
305	True	Did the Source Protection Authority complete the reportable to indicate the running tally (i.e., cumulative count) of progress made in addressing significant threats engaged in at the time of source protection plan approval (i.e., enumerated as existing) in the 2018 EAR Excel workbook which can be downloaded from the FAQ section of the EAR navigation bar?	Addressing existing enumerated threats
Answer:		Yes	

Comment:

Report Id	Completed	Question	Category
310	True	Please provide comments below to explain the overall progress made in addressing these significant threats. Include the percentage of overall progress made in the comments provided. The percentage of overall progress made in addressing local threats and conditions that are taking place on the landscape is determined by taking the total number in column D (i.e., significant drinking water threat addressed because policy is implemented) from the table completed in the 2018 EAR Excel workbook (see Tally of enumerated threats tab) and dividing it into the number that is derived by adding the total numbers in columns A and B and then subtracting this sum total from the total in column C. In other words, overall progress made = D/A B-C.	Addressing existing enumerated threats
Answer:		93% progress made. One outstanding home heating oil fuel RMP. Negotiations have begun with landowner on the RMP but are looking for additional clarification from TSSA on understanding the requirements of the Code.	

Comment:

Report Id	Completed	Question	Category
320	True	If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the work plans through amendments carried out under section 34 or section 36 of the Clean Water Act for Technical rule 30.1: Water Budget Tier 3.	Assessment report information gaps
Answer:		A Section 36 workplan for updates to the assessment report was submitted to the province for review in November 2018. The workplan did not include technical work for Tier 3 water budgets, GUDI for WHPA-E or F, or delineation/update of Issue Contributing Areas	

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Catfish Creek

Report Id	Completed	Question	Category
321	True	If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the work plans through amendments carried out under section 34 or section 36 of the Clean Water Act for Technical rule 50.1: GUDI for WHPA-E and F.	Assessment report information gaps
Answer:		A Section 36 workplan for updates to the assessment report was submitted to the province for review in November 2018. The workplan did not include technical work for Tier 3 water budgets, GUDI for WHPA-E or F, or delineation/update of Issue Contributing Areas	
Comment:			

Report Id	Completed	Question	Category
322	True	If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the work plans through amendments carried out under section 34 or section 36 of the Clean Water Act for Technical rule 116: Issue Contributing Area.	Assessment report information gaps
Answer:		A Section 36 workplan for updates to the assessment report was submitted to the province for review in November 2018. The workplan did not include technical work for Tier 3 water budgets, GUDI for WHPA-E or F, or delineation/update of Issue Contributing Areas	
Comment:			

Report Id	Completed	Question	Category
330	True	Does the source protection authority have any other item(s) on which it wishes to report? If so, please explain.	Other reporting items
Answer:		Any comments from the Source Protection Committee to be included here.	
Comment:			



Source Water Protection Annual Report 2018 - Supplemental Form Catfish Creek

Report Id	Completed	Question	Category
340	True	What positive outcomes (e.g., less water consumption, changes in behaviour, reduction in phosphorus and nitrogen concentrations, less chloride from road salt, reduction in algal blooms, human health protected, etc.), if any, have potentially resulted from the implementation of source protection plan policies? Please describe the outcomes below.	Source protection outcomes
Answer:		The Risk Management Official/Risk Management Inspector have noted a change in property owner behaviour during site inspections. People appear interested in protecting source water and are willing to change out chemicals for more environmentally-sensitive options.	
Comment:			



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Report Id Completed Question

350 True In the opinion of the Source Protection Committee, to what extent have the objectives of the source protection plan been achieved in this reporting period?

Response	Answer
Progressing Well/On Target - The majority of the source protection plan policies have been implemented and/or are progressing well	Yes
Satisfactory - Some of the source protection plan policies have been implemented and/or are progressing well	No
Limited Progress made - A few of source protection plan policies have been implemented and/or are progressing well	No

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Catfish Creek

Report Id	Completed	Question	Category
351	True	Please provide comments to explain how the Source Protection Committee arrived at its opinion. Include a summary of any discussions that might have been had amongst the Source Protection Committee members, especially where no consensus was reached.	Achievement of source protection plan objectives
Answer:		Nineteen existing significant drinking water threats were identified in the Catfish Creek Source Protection Area when the plan took effect. Since implementation of the plan, 93% of confirmed significant drinking water threats have been addressed with only one outstanding threat remaining. Additionally, all applicable plan policies that address significant drinking water threats are implemented or in progress.	
Comment:			

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #20a: Implementation Status of source protection plan policies

NOTE : Only complete this tab if you wish to record counts and calculate percentages of policies implemented using the Excel format option.

Complete the four tables below to indicate the implementation status of various policies in your source protection plan. The percentages calculated and reported in tables 1 to 3 below should be cumulative percentages (i.e., status of policies since the source protection plan effective date). See Guidance for more details.

Table 1a. Implementation status of *legally binding* policies that address *significant* drinking water threat activities.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	2	7.14%
Implemented - Policy outcome(s) evaluated; no further action(s) required	0	0.00%
In progress/some progress made	1	3.57%
No progress made	0	0.00%
No information available/no response received	0	0.00%
No response required/not applicable	25	89.29%
TOTAL	28	100.00%

Table 1b. Implementation status of *non-binding* policies that address *significant* drinking water threat activities.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	0	0.00%
Implemented - Policy outcome(s) evaluated; no further action(s) required	0	0.00%
In progress/some progress made	0	0.00%
No progress made	0	0.00%
No information available/no response received	0	0.00%
No response required/not applicable	0	0.00%
TOTAL	0	0.00%

Table 2. Implementation status of policies that address *moderate-low* (any policy tool, any legal effect) drinking water threat activities.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	0	0.00%
Implemented - Policy outcome(s) evaluated; no further action(s) required	0	0.00%
In progress/some progress made	0	0.00%
No progress made	0	0.00%
No information available/no response received	0	0.00%
No response required/not applicable	0	0.00%
TOTAL		0.00%

Table 3. Implementation status of policies (i.e., transport pathway, general education & outreach, some specify action, etc.) *not* directly associated with addressing specific drinking water threats.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	7	70.00%
Implemented - Policy outcome(s) evaluated; no further action(s) required	0	0.00%
In progress/some progress made	3	30.00%
No progress made	0	0.00%
No information available/no response received	0	0.00%
No response required/not applicable	0	0.00%
TOTAL	10	100.00%

Questions #20b: Implementation status of source protection plan policies

As required by O. Reg. 287/07, ss. 52(1), p. 1, complete the table below to summarize the reasons for results recorded above as being "No progress made" and/or "No information available/no response received" by the dates specified in your source protection plan for significant drinking water threat activities (Table 1a) and for any moderate/low threat policies that use prescribed instruments and *Planning Act* tools with the following details. Insert additional rows as needed.

Policy ID	Name of Implementing Body	Explanation of why actions were not taken by the person(s) or body(ies)	Outline next steps to support implementation
N/A			

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #220: Land Use Planning

Select the municipality(ies) (including upper-, lower-, and single-tier) within the source protection region/area that are required to complete Official Plan and Zoning by-law conformity exercises for source protection and then select the status of those exercises in the table below for each municipality. Add as many rows as needed.

***NOTE** : Applies to every municipality affected by land use planning or Part IV type policies.

Municipality Name (select from drop down menu)	Status of Official Plan Conformity Exercise (select from drop down menu)	Status of Zoning By-law Conformity Exercise (select from drop down menu)
Oxford, County of	In process	ZBL Conformity Exercise Not Applicable
Township of South-West Oxford	OP Conformity Exercise Not Applicable	In process

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #270: Environmental monitoring of drinking water issues

If applicable to the source protection region/area, complete the table below.

Drinking Water System Number	Drinking Water System	Drinking Water Issue/Parameter	Has the Issue Contributing Area been delineated for this issue? (select Yes/No from drop down list)	Observations (select from drop down menu list)	Actions/Behavioural Changes Contributing to Change in Observations (NOTE : Only complete if "Increasing concentration/trend" or "Decreasing concentration/trend" is selected in previous column for the drinking water issue/parameter)
N/A					

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #305: Enumerated threats - Progress made in addressing significant threats engaged in at time of source protection plan approval (i.e., enumerated as existing)

Complete the table of significant drinking water threats that were being engaged in (i.e., enumerated as 'existing' significant threats/threats) at the time of source protection plan approval by using the formula for the running tally of enumerated threats as explained below.

Lead source protection authorities will be maintaining a running tally of progress made in addressing significant threats that were on the ground before plans were approved. The running tally consists of the formula: A+B-C-D where:

- *A = Original estimate of significant drinking water threats engaged in/enumerated when source protection plan approved*
- *B = Additional significant drinking water threats identified after first source protection plan approved as a result of field verification (i.e., not part of original estimate of significant drinking water threat)*
- *C = Significant drinking water threats included in enumeration estimates at time of plan approval but subsequently determined through field verification that: (i) it was **not** actually engaged in at a particular location after all OR (ii) it was **no longer** engaged in (e.g., land may still have an agricultural operation but owner no longer applying pesticides for their own reasons)*
- *D = Significant drinking water threats addressed because policy is implemented* (* **Note** : Where multiple policy tools address any given threat sub-category, implemented means that actions associated with at least one policy tool have been completed/are in place.) Source protection authorities may use their local discretion in which policy tool they wish to reflect as being implemented.*

Threat ID	Prescribed Drinking Water Threat/Local threat/condition	A	B	C	D	No. of existing threats still to be addressed (A+B-C-D)
1	<input type="checkbox"/> The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> .	0	0	0	0	0
2	<input type="checkbox"/> The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	14	0	5	9	0

3	<input type="checkbox"/> The application of agricultural source material to land.	4	0	0	4	0
4	<input type="checkbox"/> The storage of agricultural source material	0	0	0	0	0
5	<input type="checkbox"/> The management of agricultural source material	0	0	0	0	0
6	<input type="checkbox"/> The application of non-agricultural source material to land	0	0	0	0	0
7	<input type="checkbox"/> The handling and storage of non-agricultural source material	0	0	0	0	0
8	<input type="checkbox"/> The application of commercial fertilizer to land	0	0	0	0	0
9	<input type="checkbox"/> The handling and storage of commercial fertilizer	0	0	0	0	0
10	<input type="checkbox"/> The application of pesticide to land	0	0	0	0	0
11	<input type="checkbox"/> The handling and storage of pesticide	0	0	0	0	0
12	<input type="checkbox"/> The application of road salt	0	0	0	0	0
13	<input type="checkbox"/> The handling and storage of road salt	0	0	0	0	0
14	<input type="checkbox"/> The storage of snow	0	0	0	0	0

15	<input type="checkbox"/> The handling and storage of fuel	1	0	0	0	1
16	<input type="checkbox"/> The handling and storage of a dense non-aqueous phase liquid	0	1	1	0	0
17	<input type="checkbox"/> The handling and storage of an organic solvent	0	0	0	0	0
18	<input type="checkbox"/> The management of runoff that contains chemicals used in the de-icing of aircraft	0	0	0	0	0
19	<input type="checkbox"/> The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard O. Reg. 385/08, s. 3.	0	0	0	0	0
20	<input type="checkbox"/> Water taking from an aquifer without returning the water to the same aquifer or surface water body	0	0	0	0	0
21	<input type="checkbox"/> Reducing recharge of an aquifer	0	0	0	0	0
22	<input type="checkbox"/> Establishment and operation of a liquid hydrocarbon pipeline	0	0	0	0	0
	<input type="checkbox"/> Local threat #1 (if applicable, please specify) _____	0	0	0	0	0
	<input type="checkbox"/> Local threat #2 (if applicable, please specify) _____	0	0	0	0	0
	<input type="checkbox"/> Local condition #1 (if applicable, please specify) _____	0	0	0	0	0
	<input type="checkbox"/> Local condition #2 (if applicable, please specify) _____	0	0	0	0	0
TOTAL		19	1	6	13	1

Appendix C

Annual Reporting Letter to the SPA

April 4, 2019

Rick Cerna, Chair
8079 Springwater Rd., RR 5
Aylmer ON, N5H 2R4

Dear Mr. Cerna:

The Catfish Creek Source Protection Plan has been in effect since January 1, 2015 with the primary objective to protect current and future sources of drinking water from contamination and overuse.

In accordance with Ontario Regulation 287/07 s.52, Catfish Creek Source Protection Authority (SPA) is required to submit source protection plan annual progress reports to the Ministry of the Environment, Conservation and Parks (MECP) by May 1, 2019. The reports provide valuable information about the implementation of the Catfish Creek Source Protection Plan and the overall success of the program. The Catfish Creek Annual Progress Report and Supplemental Form reflect implementation efforts from January 1, 2018 to December 31, 2018 (see attached).

On April 4, 2019 the Lake Erie Region Source Protection Committee passed the following resolution:

THAT in the opinion of the Lake Erie Region Source Protection Committee, implementation of the Catfish Creek Source Protection Plan has progressed well and is on target towards achieving the plan objectives.

AND THAT the Lake Erie Region Source Protection Committee direct staff to finalize the draft Catfish Creek Annual Progress Report and Supplemental Form and annual reporting objectives letter for submission to the Catfish Creek Source Protection Authority for submission to the Ministry of the Environment, Conservation and Parks, along with any Source Protection Committee comments, in accordance with S.46 of the Clean Water Act, 2006 and any Director's instructions established under O. Reg. 287/07 S.52.

As such, this letter serves as a notice pursuant to the annual progress reporting administrative protocol, adopted by the Lake Erie Source Protection Region Management Committee (see attached management committee report 17-01-03), to submit the final Catfish Creek Annual Progress Report and Supplemental Form to the Catfish Creek Source Protection Authority.

Achievement of Source Protection Plan Objectives

It is the opinion of the Lake Erie Region Source Protection Committee that implementation of the Catfish Creek Source Protection Plan has been progressing well and is on target towards achieving the plan objectives in this reporting period (January 1, 2018 - December 31, 2018).

Rationale

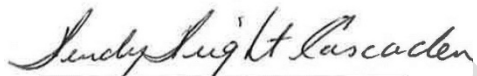
Nineteen existing significant drinking water threats were identified in the Catfish Creek Source Protection Area when the plan took effect. Since implementation of the plan, 93% of confirmed significant drinking water threats have been addressed with only one outstanding threat remaining. Additionally, all applicable plan policies that address significant drinking water threats are implemented or in progress.

(Insert additional committee comments if applicable).

On behalf of the Lake Erie Region Source Protection Committee, the SPA is now tasked with considering the provincially-required annual progress reports and submitting them to the MECP, together with the committee's comments, and any comments the SPA wishes to make.

If you have any questions regarding this letter, or the Catfish Creek Annual Progress Report and Supplemental Form, please contact Ilona Feldmann at 519-621-2763 ext. 2318 or ifeldmann@grandriver.ca.

Sincerely,



Wendy Wright-Cascaden
Chair, Lake Erie Region Source Protection Committee

cc:
Chris Wilkinson, General Manager/Secretary-Treasurer, CCA

LAKE ERIE REGION SOURCE PROTECTION COMMITTEE

REPORT NO. SPC-19-04-05

DATE: April 4, 2019

TO: Members of the Lake Erie Region Source Protection Committee

SUBJECT: Kettle Creek Annual Progress Report

RECOMMENDATION:

THAT the Lake Erie Region Source Protection Committee receives report SPC-19-04-05 – Kettle Creek Annual Progress Report - for information.

THAT in the opinion of the Lake Erie Region Source Protection Committee, implementation of the Kettle Creek Source Protection Plan has progressed well and is on target towards achieving the plan objectives.

AND THAT the Lake Erie Region Source Protection Committee direct staff to finalize the draft Kettle Creek Annual Progress Report and Supplemental Form and annual reporting objectives letter for submission to the Kettle Creek Source Protection Authority for submission to the Ministry of the Environment, Conservation and Parks, along with any Source Protection Committee comments, in accordance with S.46 of the Clean Water Act, 2006 and any Director's instructions established under O. Reg. 287/07 S.52.

REPORT:

Background

In accordance with Ontario Regulation 287/07 s.52, all four Lake Erie Region Source Protection Authorities (Grand River, Long Point Region, Kettle and Catfish Creek) are required to submit an Annual Progress Report to the Director by May 1 in the year following the year to which the report applies. Both the Ministry of the Environment, Conservation and Parks' (MECP) Source Protection Annual Progress Report and the Supplemental Form are to be submitted as they are considered "prescribed forms" under O. Reg. 287/07 s.52(5). The first Grand River and Long Point Region, and second Kettle Creek and Catfish Creek Annual Progress Reports and Supplemental Forms are due for submission to the MECP in May 2019.

Annual Progress Report and Supplemental Form

The Kettle Creek Annual Progress Report is a public-facing document developed by the MECP and prepared by Lake Erie Region staff. The report provides valuable information about the implementation of the Kettle Creek Source Protection Plan and the overall success of the program (**Appendix A**). The Kettle Creek Annual Progress Report reflects implementation efforts from the previous calendar year, January 1, 2018 to December 31, 2018.

Information presented in the progress report is intended to be a high-level reflection of annual reporting results collected through the Kettle Creek Supplemental Form. The Supplemental Form is a tool to collect key information from implementing bodies to help convey the story of progress made in the Kettle Creek Source Protection Area using a series of questions (**Appendix B**).

The Supplemental Form includes two questions that require Source Protection Committee input (SPC): the first, the committee's opinion on the extent to which objectives in the plan have been achieved during the reporting period and the second, comments to explain how the committee arrived at its opinion.

Lake Erie Region staff have reviewed the results of the Supplemental Form and Annual Progress Report and recommend the following responses:

Question ID 350

In the opinion of the Source Protection Committee, to what extent have the objectives of the source protection plan been achieved in this reporting period?

Progressing well/on target – majority of the source protection plan policies have been implemented and/or are progressing well.	✓
Satisfactory - Some of the source protection plan policies have been implemented and/or are progressing well.	
Limited progress made - A few of source protection plan policies have been implemented and/or are progressing well.	

Reportable ID 351

Please provide comments to explain how the Source Protection Committee arrived at its opinion. Include a summary of any discussions that might have been had amongst the Source Protection Committee members, especially where no consensus was reached.

Only two existing significant drinking water threats were identified in the Kettle Creek Source Protection Area when the Plan took effect. Since implementation of the plan, both threats (100%) have been addressed: one no longer exists and the other was managed through a Risk Management Plan (RMP).

Annual Reporting Letter to SPA

In addition to the annual progress reports, Lake Erie Region staff have drafted an annual reporting letter to be submitted to the Kettle Creek Source Protection Authority in accordance with the Lake Erie Region's annual progress reporting administrative protocol (**Appendix C**). The letter includes comments about the extent to which objectives set out in the source protection plan are being achieved and will include any additional committee comments.

Prepared by:



Ilona Feldmann
Source Protection Program Assistant

Approved by:



Martin Keller, M. Sc.
Source Protection Program Manager

Appendix A
Kettle Creek Annual Progress Report

Source Protection Annual Progress Report | 04/04/2019

I. Introduction

This annual progress report outlines the progress made in implementing the source protection plan for the **Kettle Creek Source Protection Area**, as required by the Clean Water Act and regulations.

We acknowledge and recognize the tremendous efforts made by our local municipality, stakeholders and Source Protection Committee in the development of the Source Protection Plan and implementation of Source Protection policies.



II. A message from your local Source Protection Committee

Our progress score on achieving source protection plan objectives this reporting period:

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

Only two existing significant drinking water threats were identified in the Kettle Creek Source Protection Area when the Plan took effect. Since implementation of the plan, both threats (100%) have been addressed: one no longer exists and the other was managed through a Risk Management Plan (RMP).

III. Our Watershed

To learn more, please read our assessment report(s) and source protection plan(s).

The Kettle Creek Source Protection Area (watershed) includes Kettle Creek and its tributaries. They drain 520 square kilometres of agricultural and urban lands before entering Lake Erie at Port Stanley. The area includes parts of Elgin County, Middlesex County, the City of St. Thomas, and the City of London.

The watershed has two municipal drinking water systems: a well in Belmont and the Elgin Area Primary Water Supply System (EAPWSS) in Port Stanley.

Only two significant drinking water threat activities were identified in the Kettle Creek Source Protection Area when the plan went in to effect. Since that time, both threats have been addressed.

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

1. Source Protection Plan Policies

P: Progressing Well/On Target

The majority the legally binding policies (81%) that address significant drinking water threats are implemented, in progress and have been evaluated, or determined to require no further action(s).

2. Municipal Progress: Addressing Risks on the Ground

Three municipalities (Malahide, Central Elgin and Thames Centre) in the Kettle Creek Source Protection Area have vulnerable areas where significant drinking water threat policies apply.

P: Progressing Well/On Target - Municipalities in the Kettle Creek Source Protection Area are required to review and update their Official Plan to ensure it conforms with the Kettle Creek Source Protection Plan the next time they undertake an Official Plan review under the Planning Act. All three municipalities have amended or are in the process of amending their Official Plan to conform with the Kettle Creek Source Protection Plan.

3. Septic Inspections

Not applicable to the Source Protection Area.

4. Risk Management Plans

P: Progressing Well/On Target

In the previous calendar year, no risk management plans were established in the Kettle Creek Source Protection Area. Since our source protection plan took effect, one risk management plan has been established.

One inspection has been carried out or planned by a Risk Management Official/Inspector for prohibited or regulated activities. There is a 100% compliance rate with the risk management plan established in the Kettle Creek Source Protection Area.

5. Provincial Progress: Addressing Risks on the Ground

P: Progressing Well/On Target

Ontario ministries are reviewing 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 the Kettle Creek Source Protection Plan to address existing activities that pose a significant risk to sources of drinking water. The provincial approvals are being amended or revoked where necessary to conform with plan policies. The Kettle Creek Source Protection policies set out a timeline of 3 years to complete the review and make any necessary changes. The ministries have completed this for 100% of previously issued provincial approvals in the Kettle Creek Source Protection Area.

6. Source Protection Awareness and Change in Behaviour

Five Drinking Water Protection Zone signs have been installed in the Kettle Creek Source Protection Area.

7. Source Protection Plan Policies: Summary of Delays

Not applicable to the Kettle Creek Source Protection Area.

8. Source Water Quality: Monitoring and Actions

In the Kettle Creek Source Protection Area, no issues have been identified in our local science-based assessment report(s) regarding the quality of the source(s) of municipal drinking water.

9. Science-based Assessment Reports: Work Plans

A Section 36 workplan for updates to the assessment report was submitted to the province for review in November 2018. The workplan did not include technical work for Tier 3 water budgets, GUDI for WHPA-E or F, or delineation/update of Issue Contributing Areas (ICAs).

10. More from the Watershed

To learn more about the Kettle Creek Source Protection Area, visit <http://www.sourcewater.ca>

Appendix B

Kettle Creek Annual Progress Reporting Supplemental Form



Source Water Protection Annual Report

2018 - Supplemental Form

Kettle Creek

Report Id Completed Question

10 True As applicable to your source protection region/area, indicate if the relevant implementing bodies submitted a status update/annual report to the source protection authority for the previous reporting year. If "No" is selected for any implementing body(ies), then please complete the Comments field below with details including the name of the specific implementing body along with an explanation, if available, for not submitting a status update/annual report as required by a monitoring policy.

Response	Answer
Risk Management Official	Yes
Municipality	No
Conservation Authority	No
Local Health Unit	No
MECP - Waste Disposal Sites - Landfilling and Storage	Yes
MECP - Wastewater/Sewage Works	Yes
MECP - Pesticides	Yes
MECP - Hauled Sewage/Biosolids	Yes
MECP - Permit to Take Water	Yes
MECP - Municipal Residential Drinking Water Systems	Yes
OMAFRA	Yes
MNRF	Yes
MTO	Yes
MMAH	No
MGCS-TSSA	No
Provincial Board/Commission	No
Federal Departments/Agencies/Commissions/Crown Corporations	No
Private Entity/Company	No
Association/Organization	No
MECP - Other Policies	Yes
MECP - Waste Disposal Sites - Landfilling and Storage Inspections	Yes
MECP - Wastewater/Sewage Works Inspections	Yes
MECP - Conditions Sites	Yes



Source Water Protection Annual Report 2018 - Supplemental Form Kettle Creek

MECP - NMA - ASM and NASM Inspections

Yes

MENDM

No

Comment: The Township of Thames Centre did not complete all annual reporting requirements.



Source Water Protection Annual Report 2018 - Supplemental Form Kettle Creek

Report Id	Completed	Question	Category
20	True	Did the Source Protection Authority (i) indicate the status of all threat policies as contained in their source protection plan by using one of the two options outlined in the guidance document (ID 20a) AND (ii) complete the table to indicate which implementing body(ies) have not yet made any progress in policy implementation in reportable ID 20b?	Implementation status of source protection plan policies
Answer:		No	

Comment: The Kettle Creek Source Protection Authority indicated the status of all threat policies by using one of the two options as outlined in the guidance document: the implementation of various policies captured in the tables provided in the annual progress reporting supplemental form. The Source Protection Authority has not indicated the specific implementation status of each policy. Lake Erie Region staff are working with the ministry to complete this outstanding annual reporting requirement.

Report Id	Completed	Question	Category
30	True	Number of risk management plans agreed to or established within the source protection area/region (for existing and future threats) during the reporting period (i.e., annual total).	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
31	True	Number of properties (i.e., parcels) with risk management plans agreed to or established for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:



Source Water Protection Annual Report

2018 - Supplemental Form

Kettle Creek

Report Id	Completed	Question	Category
32	True	How many existing* significant drinking water threats have been managed through the established risk management plans for this reporting period (* meaning engaged in OR enumerated as existing significant threats)?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
40	True	How many section 59 notices were issued in this reporting period for activities to which neither a prohibition (section 57) nor a risk management plan (section 58) policy applied, as per ss. 59(2)(a) of the Clean Water	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
41	True	How many section 59 notices were issued in this reporting period for activities to which a risk management plan (section 58) policy applied, as per ss. 59(2)(b) of the Clean Water Act?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:



Source Water Protection Annual Report

2018 - Supplemental Form

Kettle Creek

Report Id	Completed	Question	Category
50	True	For the purposes of section 61 of O. Reg. 287/07, how many notices and/or copies of prescribed instruments that state the prescribed instrument conforms with the significant drinking water threat policies in the source protection plan (i.e., statement of conformity confirms the instrument holder is exempt from requiring a risk management plan) did the risk management official receive?	Part IV (Sections 57, 58 & Section 59)
Answer:	0		

Comment:

Report Id	Completed	Question	Category
60	True	State the total number of inspections (including any follow-up site visits) that were carried out for activities (existing or future) that are prohibited under section 57 of the Clean Water Act for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:	1		

Comment:

Report Id	Completed	Question	Category
61	True	How many properties (i.e., parcels) had inspections for the purposes of section 57 for this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:	1		

Comment:



Source Water Protection Annual Report

2018 - Supplemental Form

Kettle Creek

Report Id	Completed	Question	Category
62	True	Among the inspections conducted for section 57, how many showed that activities were taking place on the landscape even though they were prohibited (i.e., in contravention) under section 57 of the Clean Water Act for this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
70	True	How many existing significant drinking water threats have been prohibited as a result of section 57 prohibitions in this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
80	True	State the total number of inspections (including any follow-up site visits) that were carried out for activities that require a risk management plan under section 58 of the Clean Water Act for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:



Source Water Protection Annual Report

2018 - Supplemental Form

Kettle Creek

Report Id	Completed	Question	Category
81	True	How many properties (i.e., parcels) had inspections for the purposes of section 58 for this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
82	True	Among the inspections conducted for section 58, how many were in contravention with section 58 of the Clean Water Act for this reporting period (i.e., person engaging in a drinking water threat activity without a risk management plan as required by the source protection plan)?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
83	True	Among the inspections for section 58, how many were in non-compliance with the specific contents of the risk management plan for this reporting period? (NOTE: Please only include those inspections that showed non-compliance with measures/conditions to manage the actual threat activity.)	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Kettle Creek

Report Id	Completed	Question	Category
84	True	State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 57 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:	0		

Comment:

Report Id	Completed	Question	Category
85	True	State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 58 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:	0		

Comment:

Report Id	Completed	Question	Category
86	True	State the total number of orders issued for contraventions and/or non-compliance found with section 57 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:	0		

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Kettle Creek

Report Id	Completed	Question	Category
87	True	State the total number of orders issued for contraventions and/or non-compliance found with section 58 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:	0		

Comment:

Report Id	Completed	Question	Category
90	True	[OPTIONAL]: What new/additional knowledge (e.g., threats, transport pathways, abandoned wells, etc. and how they are managed), if any, did the lead source protection authority gain through communication with their Risk Management Official/Risk Management Inspector, based on the Risk Management Official/Risk Management Inspector's work in the field?	Part IV (Sections 57, 58 & Section 59)
Answer:	N/A		

Comment: Kettle Creek Source Protection Authority will not be providing responses to optional questions.

Report Id	Completed	Question	Category
220	True	Did the Source Protection Authority complete the Land Use Planning reportable using the 2018 EAR Excel Workbook which can be downloaded from the FAQ section of the EAR navigation bar?	Land Use Planning
Answer:	Yes		

Comment:



Source Water Protection Annual Report

2018 - Supplemental Form

Kettle Creek

Report Id Completed Question

230 True Indicate the methods by which education and outreach policies have been/are being implemented in the source protection region/area for the reporting period by all the relevant implementing bodies from the checklist below. Choose all that apply.

Response	Answer
use of educational materials for general public (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website)	Yes
use of educational materials for target audiences including developers, builders, landowners, farmers, etc. (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website)	Yes
workshops	No
site visits	Yes
source protection content for websites	Yes
educational videos (e.g., Drinking Water Source Protection video available Conservation Ontario)	Yes
podcasts	No
collaboration with other bodies (e.g., ministries, local organizations, etc.)	Yes
social media promotion (e.g., use of Facebook, Twitter, Instagram, etc.)	Yes
media advertising (e.g., print media, radio, television) in news media and/or industry/stakeholder specific publications	No
integration with other outreach programs or campaigns (e.g., Community Environment Days, etc.)	Yes
articles in publications	No
information kiosks at events/festivals	No
methods for implementing Education and Outreach not yet determined	No

Comment:



Source Water Protection Annual Report

2018 - Supplemental Form

Kettle Creek

Report Id Completed Question

231 True From among the method(s) used to implement education and outreach policies by the source protection authority or by other local bodies (e.g., municipalities), indicate the top three used that were found to be the most successful in meeting the intent of education and outreach policies. Briefly explain how success was evaluated and any results achieved in the Comments field below.

Response	Answer
use of educational materials for general public (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website)	No
use of educational materials for target audiences including developers, builders, landowners, farmers, etc. (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website)	Yes
workshops	No
site visits	Yes
source protection content for websites	Yes
educational videos (e.g., Drinking Water Source Protection video available Conservation Ontario)	No
podcasts	No
collaboration with other bodies (e.g., ministries, local organizations, etc.)	Yes
social media promotion (e.g., use of Facebook, Twitter, Instagram, etc.)	No
media advertising (e.g., print media, radio, television) in news media and/or industry/stakeholder specific publications	No
integration with other outreach programs or campaigns (e.g., Community Environment Days, etc.)	Yes
articles in publications	No
information kiosks at events/festivals	No

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Kettle Creek

Report Id	Completed	Question	Category
250	True	[OPTIONAL]: If applicable to the source protection region/area, in the response box below, briefly summarize the type of incentive(s) (e.g., prescribed instrument application fees waived, funding, other non-financial incentives, etc.) that was made available (whether as a policy in the source protection plan or not), the source that provided the incentive(s), the prescribed drinking water threat activity(ies) to which it relates, and the degree to which the incentive(s) assisted with the implementation of source protection plan policies that address significant drinking water threat activity(ies) (i.e., Full degree, Significant/large degree, Moderate degree, Some degree, or Limited degree) in your source protection region/area.	Incentives
Answer:	N/A		

Comment: Kettle Creek Source Protection Authority will not be providing responses to optional questions.

Report Id	Completed	Question	Category
260	True	How many on-site sewage systems in the source protection area require inspections in accordance with the Ontario Building Code (i.e., once every five years)?	Sewage System Inspections
Answer:	0		

Comment:

Report Id	Completed	Question	Category
261	True	Of those requiring inspections, how many on-site sewage systems (identified as significant drinking water threats) were inspected for this reporting period?	Sewage System Inspections
Answer:	0		

Comment:



Source Water Protection Annual Report

2018 - Supplemental Form

Kettle Creek

Report Id Completed Question

262 True If not all required on-site sewage systems were inspected, please indicate why they were not all inspected from among the options below:

Response	Answer
on-site sewage system(s) is newly constructed and therefore not captured in the first round of inspections	Yes
landowner refused entry, compliance order being sought	No
municipality has not yet initiated inspection program	Yes

Comment:



Source Water Protection Annual Report

2018 - Supplemental Form

Kettle Creek

Report Id	Completed	Question	Category
263	True	How many of the on-site sewage systems inspected required minor maintenance work (e.g., pump out, etc.)?	Sewage System Inspections
Answer:	0		

Comment:

Report Id	Completed	Question	Category
264	True	How many of the on-site sewage systems inspected required major maintenance work (e.g., tank replacement, etc.)?	Sewage System Inspections
Answer:	0		

Comment:

Report Id	Completed	Question	Category
270	True	If applicable to the source protection region/area, did the Source Protection Authority complete the reportable on the environmental monitoring of drinking water issues using the 2018 EAR Excel workbook file which can be downloaded from the FAQ section of the EAR navigation bar? Choose "No" if not applicable and indicate as such in the Comments box below.	Environmental monitoring for drinking water issues
Answer:	No		

Comment: This question is not applicable.



Source Water Protection Annual Report

2018 - Supplemental Form

Kettle Creek

Report Id	Completed	Question	Category
280	True	How many notices about transport pathways (meaning a condition of land resulting from human activity (e.g., pits and quarries, improperly abandoned wells, geothermal system, etc.) that increases the vulnerability of a raw water supply of a drinking water system) did the source protection authority receive from municipalities in this reporting period (as per O. Reg. 287/07, ss. 27(3))?	Transport pathways
Answer:	0		
Comment:			



Source Water Protection Annual Report

2018 - Supplemental Form

Kettle Creek

Report Id **Completed** **Question**

281 True Where transport pathway notices were received, indicate the action(s) taken by the source protection region/area in response to receiving these notices:

Response	Answer
Provided information to municipalities about changes in vulnerability	No
Provided notice to Source Protection Committee for information	No
Situation continues to be monitored	No

Comment: No transport pathway notices were received.



Source Water Protection Annual Report 2018 - Supplemental Form Kettle Creek

Report Id **Completed** **Question**

290 True [OPTIONAL]: Indicate specific actions taken by any person or body to reduce the impacts that transport pathways could have on sources of drinking water.

Response	Answer
Funding made available for proper well decommissioning	No
Municipality decommissioning wells in accordance with O. Reg. 903	No
Private landowners decommissioning wells in accordance with O. Reg. 903	No

Comment: Kettle Creek Source Protection Authority will not be providing responses to optional questions.



Source Water Protection Annual Report 2018 - Supplemental Form Kettle Creek

Report Id Completed Question

300 True [OPTIONAL]: If and where there are successful examples for each of the following initiatives in the source protection region/area (including from local municipalities, residents and businesses) that the authority wishes to highlight, then please indicate in the Comments field below. In your comments, please include details for each of the selected topics. Please limit the descriptions provided (e.g., one example for each topic or more could be included when the source protection authority feels they are exceptional/quite successful.

Response	Answer
Education and Outreach (in description include details, if available, on type and percentage of target population reached, outcome(s) achieved, etc.)	No
Incentives (in description include details, if available, on outcome(s) achieved, how widely available was the incentive, etc.)	No
Stewardship Programs	No
Best Management Practices	No
Pilot Programs	No
Research	No
Specify Action (e.g., road salt management, municipal by-laws, legislative or regulatory amendments, mapping, review of fuel codes, new airport facility design standards to manage runoff of chemicals from de-icing of aircraft, instrumentation, etc.)	No
Climate Change (e.g., data collection)	No
Spill prevention/spill contingency/emergency response plan updates	No
Transport pathways	No
Water quantity	No
Great Lakes	No
Other policies (i.e., strategic action, etc.)	No

Comment: Kettle Creek Source Protection Authority will not be providing responses to optional questions.



Source Water Protection Annual Report 2018 - Supplemental Form

Kettle Creek

Report Id	Completed	Question	Category
305	True	Did the Source Protection Authority complete the reportable to indicate the running tally (i.e., cumulative count) of progress made in addressing significant threats engaged in at the time of source protection plan approval (i.e., enumerated as existing) in the 2018 EAR Excel workbook which can be downloaded from the FAQ section of the EAR navigation bar?	Addressing existing enumerated threats
Answer:		Yes	

Comment:

Report Id	Completed	Question	Category
310	True	Please provide comments below to explain the overall progress made in addressing these significant threats. Include the percentage of overall progress made in the comments provided. The percentage of overall progress made in addressing local threats and conditions that are taking place on the landscape is determined by taking the total number in column D (i.e., significant drinking water threat addressed because policy is implemented) from the table completed in the 2018 EAR Excel workbook (see Tally of enumerated threats tab) and dividing it into the number that is derived by adding the total numbers in columns A and B and then subtracting this sum total from the total in column C. In other words, overall progress made = D/A B-C.	Addressing existing enumerated threats
Answer:		The percentage of overall progress made is 100%. Only two existing significant drinking water threats were identified in the Kettle Creek Source Protection Area when the Plan took effect. Since implementation of the plan, both threats (100%) have been addressed: one no longer exists and the other was managed through a Risk Management Plan (RMP).	

Comment:

Report Id	Completed	Question	Category
320	True	If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the work plans through amendments carried out under section 34 or section 36 of the Clean Water Act for Technical rule 30.1: Water Budget Tier 3.	Assessment report information gaps
Answer:		A Section 36 workplan for updates to the assessment report was submitted to the province for review in November 2018. The workplan did not include technical work for Tier 3 water budgets, GUDI for WHPA-E or F, or delineation/update of Issue Contributing Areas	

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Kettle Creek

Report Id	Completed	Question	Category
321	True	If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the work plans through amendments carried out under section 34 or section 36 of the Clean Water Act for Technical rule 50.1: GUDI for WHPA-E and F.	Assessment report information gaps
Answer:		A Section 36 workplan for updates to the assessment report was submitted to the province for review in November 2018. The workplan did not include technical work for Tier 3 water budgets, GUDI for WHPA-E or F, or delineation/update of Issue Contributing Areas	
Comment:			

Report Id	Completed	Question	Category
322	True	If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the work plans through amendments carried out under section 34 or section 36 of the Clean Water Act for Technical rule 116: Issue Contributing Area.	Assessment report information gaps
Answer:		A Section 36 workplan for updates to the assessment report was submitted to the province for review in November 2018. The workplan did not include technical work for Tier 3 water budgets, GUDI for WHPA-E or F, or delineation/update of Issue Contributing Areas	
Comment:			

Report Id	Completed	Question	Category
330	True	Does the source protection authority have any other item(s) on which it wishes to report? If so, please explain.	Other reporting items
Answer:		Any comments from the Source Protection Committee to be included here.	
Comment:			



Source Water Protection Annual Report 2018 - Supplemental Form Kettle Creek

Report Id	Completed	Question	Category
340	True	What positive outcomes (e.g., less water consumption, changes in behaviour, reduction in phosphorus and nitrogen concentrations, less chloride from road salt, reduction in algal blooms, human health protected, etc.), if any, have potentially resulted from the implementation of source protection plan policies? Please describe the outcomes below.	Source protection outcomes
Answer:		None to report.	
Comment:			



Source Water Protection Annual Report

2018 - Supplemental Form

Kettle Creek

Report Id Completed Question

350 True In the opinion of the Source Protection Committee, to what extent have the objectives of the source protection plan been achieved in this reporting period?

Response	Answer
Progressing Well/On Target - The majority of the source protection plan policies have been implemented and/or are progressing well	Yes
Satisfactory - Some of the source protection plan policies have been implemented and/or are progressing well	No
Limited Progress made - A few of source protection plan policies have been implemented and/or are progressing well	No

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Kettle Creek

Report Id	Completed	Question	Category
351	True	Please provide comments to explain how the Source Protection Committee arrived at its opinion. Include a summary of any discussions that might have been had amongst the Source Protection Committee members, especially where no consensus was reached.	Achievement of source protection plan objectives
Answer:		Only two existing significant drinking water threats were identified in the Kettle Creek Source Protection Area when the Plan took effect. Since implementation of the plan, both threats (100%) have been addressed: one no longer exists and the other was managed through a Risk Management Plan (RMP).	
Comment:			

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #20a: Implementation Status of source protection plan policies

NOTE : Only complete this tab if you wish to record counts and calculate percentages of policies implemented using the Excel format option.

Complete the four tables below to indicate the implementation status of various policies in your source protection plan. The percentages calculated and reported in tables 1 to 3 below should be cumulative percentages (i.e., status of policies since the source protection plan effective date). See Guidance for more details.

Table 1a. Implementation status of *legally binding* policies that address *significant* drinking water threat activities.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	9	33.33%
Implemented - Policy outcome(s) evaluated; no further action(s) required	4	14.81%
In progress/some progress made	9	33.33%
No progress made	0	0.00%
No information available/no response received	5	18.52%
No response required/not applicable	0	0.00%
TOTAL	27	100.00%

Table 1b. Implementation status of *non-binding* policies that address *significant* drinking water threat activities.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	1	100.00%
Implemented - Policy outcome(s) evaluated; no further action(s) required	0	0.00%
In progress/some progress made	0	0.00%
No progress made	0	0.00%
No information available/no response received	0	0.00%
No response required/not applicable	0	0.00%
TOTAL	1	100.00%

Table 2. Implementation status of policies that address *moderate-low* (any policy tool, any legal effect) drinking water threat activities.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	0	0.00%
Implemented - Policy outcome(s) evaluated; no further action(s) required	0	0.00%
In progress/some progress made	0	0.00%
No progress made	0	0.00%
No information available/no response received	0	0.00%
No response required/not applicable	0	0.00%
TOTAL	0	0.00%

Table 3. Implementation status of policies (i.e., transport pathway, general education & outreach, some specify action, etc.) *not* directly associated with addressing specific drinking water threats.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	1	100.00%
Implemented - Policy outcome(s) evaluated; no further action(s) required	0	0.00%
In progress/some progress made	0	0.00%
No progress made	0	0.00%
No information available/no response received	0	0.00%
No response required/not applicable	0	0.00%
TOTAL	1	100.00%

Questions #20b: Implementation status of source protection plan policies

As required by O. Reg. 287/07, ss. 52(1), p. 1, complete the table below to summarize the reasons for results recorded above as being "No progress made" and/or "No information available/no response received" by the dates specified in your source protection plan for significant drinking water threat activities (Table 1a) and for any moderate/low threat policies that use prescribed instruments and *Planning Act* tools with the following details. Insert additional rows as needed.

Policy ID	Name of Implementing Body	Explanation of why actions were not taken by the person(s) or body(ies)	Outline next steps to support implementation
N/A			

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #220: Land Use Planning

Select the municipality(ies) (including upper-, lower-, and single-tier) within the source protection region/area that are required to complete Official Plan and Zoning by-law conformity exercises for source protection and then select the status of those exercises in the table below for each municipality. Add as many rows as needed.

***NOTE** : Applies to every municipality affected by land use planning or Part IV type policies.

Municipality Name (select from drop down menu)	Status of Official Plan Conformity Exercise (select from drop down menu)	Status of Zoning By-law Conformity Exercise (select from drop down menu)
Municipality of Central Elgin	Completed	In process
Township of Malahide	Completed	Completed
Elgin, County of	Completed	Not started

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #270: Environmental monitoring of drinking water issues

If applicable to the source protection region/area, complete the table below.

Drinking Water System Number	Drinking Water System	Drinking Water Issue/Parameter	Has the Issue Contributing Area been delineated for this issue? (select Yes/No from drop down list)	Observations (select from drop down menu list)	Actions/Behavioural Changes Contributing to Change in Observations (NOTE : Only complete if "Increasing concentration/trend" or "Decreasing concentration/trend" is selected in previous column for the drinking water issue/parameter)
210000871	Elgin Primary Water Supply	No issues identified	No		
260002468	Belmont Water Supply	No issues identified	No		

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #305: Enumerated threats - Progress made in addressing significant threats engaged in at time of source protection plan approval (i.e., enumerated as existing)

Complete the table of significant drinking water threats that were being engaged in (i.e., enumerated as 'existing' significant threats/threats) at the time of source protection plan approval by using the formula for the running tally of enumerated threats as explained below.

Lead source protection authorities will be maintaining a running tally of progress made in addressing significant threats that were on the ground before plans were approved. The running tally consists of the formula: A+B-C-D where:

- *A = Original estimate of significant drinking water threats engaged in/enumerated when source protection plan approved*
- *B = Additional significant drinking water threats identified after first source protection plan approved as a result of field verification (i.e., not part of original estimate of significant drinking water threat)*
- *C = Significant drinking water threats included in enumeration estimates at time of plan approval but subsequently determined through field verification that: (i) it was **not** actually engaged in at a particular location after all OR (ii) it was **no longer** engaged in (e.g., land may still have an agricultural operation but owner no longer applying pesticides for their own reasons)*
- *D = Significant drinking water threats addressed because policy is implemented* (* **Note** : Where multiple policy tools address any given threat sub-category, implemented means that actions associated with at least one policy tool have been completed/are in place.) Source protection authorities may use their local discretion in which policy tool they wish to reflect as being implemented.*

Threat ID	Prescribed Drinking Water Threat/Local threat/condition	A	B	C	D	No. of existing threats still to be addressed (A+B-C-D)
1	<input type="checkbox"/> The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> .	0	0	0	0	0
2	<input type="checkbox"/> The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	0	0	0	0	0

3	<input type="checkbox"/> The application of agricultural source material to land.	0	0	0	0	0
4	<input type="checkbox"/> The storage of agricultural source material	0	0	0	0	0
5	<input type="checkbox"/> The management of agricultural source material	0	0	0	0	0
6	<input type="checkbox"/> The application of non-agricultural source material to land	0	0	0	0	0
7	<input type="checkbox"/> The handling and storage of non-agricultural source material	0	0	0	0	0
8	<input type="checkbox"/> The application of commercial fertilizer to land	0	0	0	0	0
9	<input type="checkbox"/> The handling and storage of commercial fertilizer	0	0	0	0	0
10	<input type="checkbox"/> The application of pesticide to land	0	0	0	0	0
11	<input type="checkbox"/> The handling and storage of pesticide	0	0	0	0	0
12	<input type="checkbox"/> The application of road salt	0	0	0	0	0
13	<input type="checkbox"/> The handling and storage of road salt	0	0	0	0	0
14	<input type="checkbox"/> The storage of snow	0	0	0	0	0

15	<input type="checkbox"/> The handling and storage of fuel	1	0	0	1	0
16	<input type="checkbox"/> The handling and storage of a dense non-aqueous phase liquid	0	0	0	0	0
17	<input type="checkbox"/> The handling and storage of an organic solvent	0	0	0	0	0
18	<input type="checkbox"/> The management of runoff that contains chemicals used in the de-icing of aircraft	0	0	0	0	0
19	<input type="checkbox"/> The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard O. Reg. 385/08, s. 3.	0	0	0	0	0
20	<input type="checkbox"/> Water taking from an aquifer without returning the water to the same aquifer or surface water body	0	0	0	0	0
21	<input type="checkbox"/> Reducing recharge of an aquifer	0	0	0	0	0
22	<input type="checkbox"/> Establishment and operation of a liquid hydrocarbon pipeline	0	0	0	0	0
	<input type="checkbox"/> Local threat #1 (if applicable, please specify) _____	0	0	0	0	0
	<input type="checkbox"/> Local threat #2 (if applicable, please specify) _____	0	0	0	0	0
	<input type="checkbox"/> Local condition #1 (if applicable, please specify) _____	0	0	0	0	0
	<input type="checkbox"/> Local condition #2 (if applicable, please specify) _____	0	0	0	0	0
TOTAL		1	0	0	1	0

Appendix C

Annual Reporting Letter to the SPA

April 4, 2019

Steven Harvey, Chair
44015 Ferguson Line
St. Thomas ON, N5P 3T3

Dear Mr. Harvey:

The Kettle Creek Source Protection Plan has been in effect since January 1, 2015 with the primary objective to protect current and future sources of drinking water from contamination and overuse.

In accordance with Ontario Regulation 287/07 s.52, Kettle Creek Source Protection Authority (SPA) is required to submit source protection plan annual progress reports to the Ministry of the Environment, Conservation and Parks (MECP) by May 1, 2019. The reports provide valuable information about the implementation of the Kettle Creek Source Protection Plan and the overall success of the program. The Kettle Creek Annual Progress Report and Supplemental Form reflect implementation efforts from January 1, 2018 to December 31, 2018 (see attached).

On April 4, 2019 the Lake Erie Region Source Protection Committee passed the following resolution:

THAT in the opinion of the Lake Erie Region Source Protection Committee, implementation of the Kettle Creek Source Protection Plan has progressed well and is on target towards achieving the plan objectives.

AND THAT the Lake Erie Region Source Protection Committee direct staff to finalize the draft Kettle Creek Annual Progress Report and Supplemental Form and annual reporting objectives letter for submission to the Kettle Creek Source Protection Authority for submission to the Ministry of the Environment, Conservation and Parks, along with any Source Protection Committee comments, in accordance with S.46 of the Clean Water Act, 2006 and any Director's instructions established under O. Reg. 287/07 S.52.

As such, this letter serves as a notice pursuant to the annual progress reporting administrative protocol, adopted by the Lake Erie Source Protection Region Management Committee (see attached management committee report 17-01-03), to submit the final Kettle Creek Annual Progress Report and Supplemental Form to the Kettle Creek Source Protection Authority.

Achievement of Source Protection Plan Objectives

It is the opinion of the Lake Erie Region Source Protection Committee that the objectives of the Kettle Creek Source Protection Plan has been progressing well and is on target towards achieving the plan objectives in this reporting period (January 1, 2018 - December 31, 2018).

Rationale

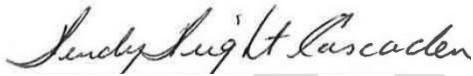
Only two existing significant drinking water threats were identified in the Kettle Creek Source Protection Area when the Plan took effect. Since implementation of the plan, both threats (100%) have been addressed: one no longer exists and the other was managed through a Risk Management Plan (RMP).

(Insert additional committee comments if applicable).

On behalf of the Lake Erie Region Source Protection Committee, the SPA is now tasked with considering the provincially-required annual progress reports and submitting them to the MECP, together with the committee's comments, and any comments the SPA wishes to make.

If you have any questions regarding this letter, or the Kettle Creek Annual Progress Report and Supplemental Form, please contact Ilona Feldmann at 519-621-2763 ext. 2318 or ifeldmann@grandriver.ca.

Sincerely,



Wendy Wright-Cascaden
Chair, Lake Erie Region Source Protection Committee

cc:

Elizabeth VanHooren, General Manager/Secretary-Treasurer, KCCA

LAKE ERIE REGION SOURCE PROTECTION COMMITTEE

REPORT NO. SPC-19-04-06

DATE: April 4, 2019

TO: Members of the Lake Erie Region Source Protection Committee

SUBJECT: Long Point Region Annual Progress Report

RECOMMENDATION:

THAT the Lake Erie Region Source Protection Committee receives report SPC-19-04-06 – Long Point Region Annual Progress Report - for information.

THAT in the opinion of the Lake Erie Region Source Protection Committee, implementation of the Long Point Region Source Protection Plan has progressed satisfactorily towards achieving the plan objectives.

AND THAT the Lake Erie Region Source Protection Committee direct staff to finalize the draft Long Point Region Annual Progress Report and Supplemental Form and annual reporting objectives letter for submission to the Long Point Region Source Protection Authority for submission to the Ministry of the Environment, Conservation and Parks, along with any Source Protection Committee comments, in accordance with S.46 of the Clean Water Act, 2006 and any Director's instructions established under O. Reg. 287/07 S.52.

REPORT:

Background

In accordance with Ontario Regulation 287/07 s.52, all four Lake Erie Region Source Protection Authorities (Grand River, Long Point Region, Kettle and Catfish Creek) are required to submit an Annual Progress Report to the Director by May 1 in the year following the year to which the report applies. Both the Ministry of the Environment, Conservation and Parks' (MECP) Source Protection Annual Progress Report and the Supplemental Form are to be submitted as they are considered "prescribed forms" under O. Reg. 287/07 s.52(5). The first Grand River and Long Point Region, and second Kettle Creek and Catfish Creek Annual Progress Reports and Supplemental Forms are due for submission to the MECP in May 2019.

Annual Progress Report and Supplemental Form

The Long Point Region Annual Progress Report is a public-facing document developed by the MECP and prepared by Lake Erie Region staff. The report provides valuable information about the implementation of the Long Point Region Source Protection Plan and the overall success of the program (**Appendix A**). The first Long Point Region Annual Progress Report reflects implementation efforts from July 1, 2016 to December 31, 2018.

Information presented in the progress report is intended to be a high-level reflection of annual reporting results collected through the Long Point Region Supplemental Form. The Supplemental Form is a tool to collect key information from implementing bodies to help convey the story of progress made in the Long Point Region Source Protection Area using a series of questions (**Appendix B**).

The Supplemental Form includes two questions that require Source Protection Committee input (SPC): the first, the committee’s opinion on the extent to which objectives in the plan have been achieved during the reporting period and the second, comments to explain how the committee arrived at its opinion.

Lake Erie Region staff have reviewed the results of the Supplemental Form and Annual Progress Report and recommend the following responses:

Question ID 350

In the opinion of the Source Protection Committee, to what extent have the objectives of the source protection plan been achieved in this reporting period?

Progressing well/on target – majority of the source protection plan policies have been implemented and/or are progressing well.	
Satisfactory - Some of the source protection plan policies have been implemented and/or are progressing well.	✓
Limited progress made - A few of source protection plan policies have been implemented and/or are progressing well.	

Reportable ID 351

Please provide comments to explain how the Source Protection Committee arrived at its opinion. Include a summary of any discussions that might have been had amongst the Source Protection Committee members, especially where no consensus was reached.

683 significant drinking water threats were identified in the Long Point Region Source Protection Area when the Plan took effect. Since implementation of the plan, 10% of threats have been removed through field verification or have been addressed because policy is implemented. Progress has been limited in large part due to technical work that was completed in 2017 and included in the Draft Updated Long Point Region Source Protection Plan that has remained draft until the plan was approved on March 11, 2019.

Additionally, 36% of applicable plan policies that address significant drinking water threats are implemented or in progress.

Annual Reporting Letter to SPA

In addition to the annual progress reports, Lake Erie Region staff have drafted an annual reporting letter to be submitted to the Long Point Region Source Protection Authority in accordance with the Lake Erie Region’s annual progress reporting administrative protocol (**Appendix C**). The letter includes comments about the extent to which objectives set out in the source protection plan are being achieved and will include any additional committee comments.

Prepared by:

Approved by:



Ilona Feldmann
Source Protection Program Assistant



Martin Keller, M. Sc.
Source Protection Program Manager

Appendix A

Long Point Region Annual Progress Report

Source Protection Annual Progress Report | 04/04/2019

I. Introduction

This annual progress report outlines the progress made in implementing the source protection plan for the **Long Point Region Source Protection Area**, as required by the Clean Water Act and regulations.

We acknowledge and recognize the tremendous efforts made by our local municipality, stakeholders and Source Protection Committee in the development of the Source Protection Plan and implementation of Source Protection policies.



II. A message from your local Source Protection Committee

Our progress score on achieving source protection plan objectives this reporting period:

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

683 significant drinking water threats were identified in the Long Point Region Source Protection Area when the Plan took effect. Since implementation of the plan, 10% of threats have been removed through field verification or have been addressed because policy is implemented. Progress has been limited in large part due to technical work that was completed in 2017 and included in the Draft Updated Long Point Region Source Protection Plan that has remained draft until the plan was approved on March 11, 2019.

Additionally, 36% of applicable plan policies that address significant drinking water threats are implemented or in progress.

III. Our Watershed

To learn more, please read our assessment report(s) and source protection plan(s).

The Long Point Region Source Protection Area (watershed) is drained by 14 major watercourses that empty into Lake Erie. They drain 2,780 square kilometres in portions of Elgin, Norfolk, Oxford, Brant and Haldimand Counties.

The watershed has ten municipal drinking water systems. Three systems are located in Oxford County in the communities of Dereham Centre, Oxford South (communities of Norwich, Otterville and Springford) and the Town of Tillsonburg, all of which are groundwater systems. Norfolk County has five municipal-residential drinking water systems in the communities of Delhi, Port Dover, Port Rowan, Simcoe and Waterford. Haldimand and Elgin County each have one municipal-residential drinking water system, respectively.

683 drinking water threat activities were identified in the Long Point Region Source Protection Area when the plan went in to effect. Since that time, 66 threats have been removed through field verification or addressed because policy is implemented.

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

1. Source Protection Plan Policies

P: Progressing Well/On Target

Many of the legally binding policies (36%) that address significant drinking water threats are implemented or in progress and have been evaluated, or determined to require no further actions, while for 59% of the policies, no response was required or the policies were not applicable.

2. Municipal Progress: Addressing Risks on the Ground

Eight upper/lower and single-tier municipalities (County of Oxford, Town of Tillsonburg, Township of Norwich, Township of South-West Oxford, Norfolk County, Haldimand County, Township of Malahide and Township of Bayham) in the Long Point Region Source Protection Area have vulnerable areas where significant drinking water threat policies apply.

P: Progressing Well/On Target - Five municipalities in the Long Point Region Source Protection Area are required to review and update their Official Plan to ensure it conforms with the Long Point Region Source Protection Plan the next time they undertake an Official Plan review under the Planning Act. Two Official Plan amendments have been completed, two are in process, and no information was received from one municipality.

3. Septic Inspections

L: Limited Progress

12% of on-site sewage systems have been inspected in accordance with the Ontario Building Code. The percentage is relatively low because the municipalities have not yet initiated an inspection program. Results found 21% of the inspections required minor maintenance, e.g., pump-outs and only 5% required major maintenance such as tank replacement.

4. Risk Management Plans

S: Satisfactory

No risk management plans have been established since the Long Point Region Source Protection Plan took effect.

40 inspections have been carried out or planned by a Risk Management Official/Inspector for prohibited or regulated activities.

5. Provincial Progress: Addressing Risks on the Ground

P: Progressing Well/On Target

Ontario ministries are reviewing 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 the Long Point Region Source Protection Plan to address existing activities that pose a significant risk to sources of drinking water. The provincial approvals are being amended or revoked where necessary to conform with plan policies. The Long Point Region Source Protection policies set out a timeline of 3 years to complete the review and make any necessary changes. The ministries have completed this for 100% of previously issued provincial approvals in the Long Point Region Source Protection Area.

6. Source Protection Awareness and Change in Behaviour

Twelve Drinking Water Protection Zones signs have been installed in the Long Point Region Source Protection Area.

The Risk Management Official/Risk Management Inspector have noted a change in property owner behaviour during site inspections. People appear interested in protecting source water and are willing to change swap out chemicals for more environmentally-sensitive options.

7. Source Protection Plan Policies: Summary of Delays

Implementation of source protection plan policies is on track for the municipalities of Oxford County and Bayham. No information was provided by Haldimand County.

In Norfolk County no progress has been made on several education and outreach policies because wellhead protection areas in the communities of Simcoe, Waterford and Delhi were recently updated and awaiting approval by the Minister of the Environment, Conservation and Parks. The education and outreach program has been developed to include mail-outs to landowners engaged in agricultural significant drinking water threats. These mail-outs will now be delivered following the approval of the Draft Updated Long Point Region Source Protection Plan on March 11, 2019.

8. Source Water Quality: Monitoring and Actions

The Richmond and Simcoe (Cedar St. Well and Chapel St. Well) drinking water systems have identified nitrate drinking water Issues; Tillsonburg drinking water system has identified nitrogen as an Issue.

Not enough data has been collected for the Richmond and Tillsonburg drinking water systems to assess long-term trends. There has been no change in concentrations at the Cedar St. and Chapel St. Wells in Simcoe.

9. Science-based Assessment Reports: Work Plans

No workplans were required to be implemented for the Long Point Region Assessment Report.

10. More from the Watershed

To learn more about the Long Point Region Source Protection Area, visit <http://www.sourcewater.ca>

Appendix B

Long Point Region Annual Progress Reporting Supplemental Form



Source Water Protection Annual Report

2018 - Supplemental Form

Long Point

Report Id Completed Question

10 True As applicable to your source protection region/area, indicate if the relevant implementing bodies submitted a status update/annual report to the source protection authority for the previous reporting year. If "No" is selected for any implementing body(ies), then please complete the Comments field below with details including the name of the specific implementing body along with an explanation, if available, for not submitting a status update/annual report as required by a monitoring policy.

Response	Answer
Risk Management Official	Yes
Municipality	No
Conservation Authority	No
Local Health Unit	No
MECP - Waste Disposal Sites - Landfilling and Storage	Yes
MECP - Wastewater/Sewage Works	Yes
MECP - Pesticides	Yes
MECP - Hauled Sewage/Biosolids	Yes
MECP - Permit to Take Water	Yes
MECP - Municipal Residential Drinking Water Systems	Yes
OMAFRA	Yes
MNRF	Yes
MTO	Yes
MMAH	Yes
MGCS-TSSA	No
Provincial Board/Commission	No
Federal Departments/Agencies/Commissions/Crown Corporations	No
Private Entity/Company	No
Association/Organization	No
MECP - Other Policies	Yes
MECP - Waste Disposal Sites - Landfilling and Storage Inspections	Yes
MECP - Wastewater/Sewage Works Inspections	Yes
MECP - Conditions Sites	Yes



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

MECP - NMA - ASM and NASM Inspections

Yes

MENDM

No

Comment: Haldimand County did not complete annual reporting requirements.



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id	Completed	Question	Category
20	True	Did the Source Protection Authority (i) indicate the status of all threat policies as contained in their source protection plan by using one of the two options outlined in the guidance document (ID 20a) AND (ii) complete the table to indicate which implementing body(ies) have not yet made any progress in policy implementation in reportable ID 20b?	Implementation status of source protection plan policies
Answer:		No	

Comment: The Long Point Region Source Protection Authority indicated the status of all threat policies by using one of the two options as outlined in the guidance document: the implementation of various policies captured in the tables provided in the annual progress reporting supplemental form. The Source Protection Authority has not indicated the specific implementation status of each policy. Lake Erie Region staff are working with the ministry to complete this outstanding annual reporting requirement.

Report Id	Completed	Question	Category
30	True	Number of risk management plans agreed to or established within the source protection area/region (for existing and future threats) during the reporting period (i.e., annual total).	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
31	True	Number of properties (i.e., parcels) with risk management plans agreed to or established for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id	Completed	Question	Category
32	True	How many existing* significant drinking water threats have been managed through the established risk management plans for this reporting period (* meaning engaged in OR enumerated as existing significant threats)?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
40	True	How many section 59 notices were issued in this reporting period for activities to which neither a prohibition (section 57) nor a risk management plan (section 58) policy applied, as per ss. 59(2)(a) of the Clean Water	Part IV (Sections 57, 58 & Section 59)
Answer:		11	

Comment:

Report Id	Completed	Question	Category
41	True	How many section 59 notices were issued in this reporting period for activities to which a risk management plan (section 58) policy applied, as per ss. 59(2)(b) of the Clean Water Act?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id	Completed	Question	Category
50	True	For the purposes of section 61 of O. Reg. 287/07, how many notices and/or copies of prescribed instruments that state the prescribed instrument conforms with the significant drinking water threat policies in the source protection plan (i.e., statement of conformity confirms the instrument holder is exempt from requiring a risk management plan) did the risk management official receive?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
60	True	State the total number of inspections (including any follow-up site visits) that were carried out for activities (existing or future) that are prohibited under section 57 of the Clean Water Act for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:		15	

Comment:

Report Id	Completed	Question	Category
61	True	How many properties (i.e., parcels) had inspections for the purposes of section 57 for this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:		15	

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id	Completed	Question	Category
62	True	Among the inspections conducted for section 57, how many showed that activities were taking place on the landscape even though they were prohibited (i.e., in contravention) under section 57 of the Clean Water Act for this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:	1		

Comment:

Report Id	Completed	Question	Category
70	True	How many existing significant drinking water threats have been prohibited as a result of section 57 prohibitions in this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:	15		

Comment:

Report Id	Completed	Question	Category
80	True	State the total number of inspections (including any follow-up site visits) that were carried out for activities that require a risk management plan under section 58 of the Clean Water Act for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:	25		

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id	Completed	Question	Category
81	True	How many properties (i.e., parcels) had inspections for the purposes of section 58 for this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:		25	

Comment:

Report Id	Completed	Question	Category
82	True	Among the inspections conducted for section 58, how many were in contravention with section 58 of the Clean Water Act for this reporting period (i.e., person engaging in a drinking water threat activity without a risk management plan as required by the source protection plan)?	Part IV (Sections 57, 58 & Section 59)
Answer:		2	

Comment:

Report Id	Completed	Question	Category
83	True	Among the inspections for section 58, how many were in non-compliance with the specific contents of the risk management plan for this reporting period? (NOTE: Please only include those inspections that showed non-compliance with measures/conditions to manage the actual threat activity.)	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id	Completed	Question	Category
84	True	State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 57 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:		0	
Comment:			

Report Id	Completed	Question	Category
85	True	State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 58 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:		0	
Comment:			

Report Id	Completed	Question	Category
86	True	State the total number of orders issued for contraventions and/or non-compliance found with section 57 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:		0	
Comment:			



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id	Completed	Question	Category
87	True	State the total number of orders issued for contraventions and/or non-compliance found with section 58 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:	0		

Comment:

Report Id	Completed	Question	Category
90	True	[OPTIONAL]: What new/additional knowledge (e.g., threats, transport pathways, abandoned wells, etc. and how they are managed), if any, did the lead source protection authority gain through communication with their Risk Management Official/Risk Management Inspector, based on the Risk Management Official/Risk Management Inspector's work in the field?	Part IV (Sections 57, 58 & Section 59)
Answer:	N/A		

Comment: Long Point Region Source Protection Authority will not be providing responses to optional questions.

Report Id	Completed	Question	Category
220	True	Did the Source Protection Authority complete the Land Use Planning reportable using the 2018 EAR Excel Workbook which can be downloaded from the FAQ section of the EAR navigation bar?	Land Use Planning
Answer:	Yes		

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id Completed Question

230 True Indicate the methods by which education and outreach policies have been/are being implemented in the source protection region/area for the reporting period by all the relevant implementing bodies from the checklist below. Choose all that apply.

Response	Answer
use of educational materials for general public (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website)	Yes
use of educational materials for target audiences including developers, builders, landowners, farmers, etc. (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website)	Yes
workshops	No
site visits	Yes
source protection content for websites	Yes
educational videos (e.g., Drinking Water Source Protection video available Conservation Ontario)	No
podcasts	No
collaboration with other bodies (e.g., ministries, local organizations, etc.)	Yes
social media promotion (e.g., use of Facebook, Twitter, Instagram, etc.)	No
media advertising (e.g., print media, radio, television) in news media and/or industry/stakeholder specific publications	No
integration with other outreach programs or campaigns (e.g., Community Environment Days, etc.)	Yes
articles in publications	No
information kiosks at events/festivals	No
methods for implementing Education and Outreach not yet determined	No

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id Completed Question

231 True From among the method(s) used to implement education and outreach policies by the source protection authority or by other local bodies (e.g., municipalities), indicate the top three used that were found to be the most successful in meeting the intent of education and outreach policies. Briefly explain how success was evaluated and any results achieved in the Comments field below.

Response	Answer
use of educational materials for general public (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website)	Yes
use of educational materials for target audiences including developers, builders, landowners, farmers, etc. (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website)	Yes
workshops	No
site visits	Yes
source protection content for websites	No
educational videos (e.g., Drinking Water Source Protection video available Conservation Ontario)	No
podcasts	No
collaboration with other bodies (e.g., ministries, local organizations, etc.)	Yes
social media promotion (e.g., use of Facebook, Twitter, Instagram, etc.)	No
media advertising (e.g., print media, radio, television) in news media and/or industry/stakeholder specific publications	No
integration with other outreach programs or campaigns (e.g., Community Environment Days, etc.)	No
articles in publications	No
information kiosks at events/festivals	No

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id Completed Question

240 True State the number of source water protection signs installed on provincial highways in the source protection region/area for this reporting period.

Agency Current Year Cumulative Count

MECP	5	5
------	---	---

Provincial Total	5	5
-------------------------	---	---

Comment:

Report Id Completed Question

Category

241 True State the number of source water protection signs installed on municipal roads in the source protection region/area for this reporting period.

Signage

Answer: 6

Comment:

Report Id Completed Question

Category

242 True State the number of source water protection signs installed at other locations (if applicable) in the source protection region/area for this reporting period.

Signage

Answer: 1

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id	Completed	Question	Category
250	True	[OPTIONAL]: If applicable to the source protection region/area, in the response box below, briefly summarize the type of incentive(s) (e.g., prescribed instrument application fees waived, funding, other non-financial incentives, etc.) that was made available (whether as a policy in the source protection plan or not), the source that provided the incentive(s), the prescribed drinking water threat activity(ies) to which it relates, and the degree to which the incentive(s) assisted with the implementation of source protection plan policies that address significant drinking water threat activity(ies) (i.e., Full degree, Significant/large degree, Moderate degree, Some degree, or Limited degree) in your source protection region/area.	Incentives
Answer:	N/A		

Comment: Long Point Region Source Protection Authority will not be providing responses to optional questions.

Report Id	Completed	Question	Category
260	True	How many on-site sewage systems in the source protection area require inspections in accordance with the Ontario Building Code (i.e., once every five years)?	Sewage System Inspections
Answer:	155		

Comment:

Report Id	Completed	Question	Category
261	True	Of those requiring inspections, how many on-site sewage systems (identified as significant drinking water threats) were inspected for this reporting period?	Sewage System Inspections
Answer:	19		

Comment:



Source Water Protection Annual Report

2018 - Supplemental Form

Long Point

Report Id **Completed** **Question**

262 True If not all required on-site sewage systems were inspected, please indicate why they were not all inspected from among the options below:

Response	Answer
on-site sewage system(s) is newly constructed and therefore not captured in the first round of inspections	No
landowner refused entry, compliance order being sought	No
municipality has not yet initiated inspection program	Yes

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id	Completed	Question	Category
263	True	How many of the on-site sewage systems inspected required minor maintenance work (e.g., pump out, etc.)?	Sewage System Inspections
Answer:	4		

Comment:

Report Id	Completed	Question	Category
264	True	How many of the on-site sewage systems inspected required major maintenance work (e.g., tank replacement, etc.)?	Sewage System Inspections
Answer:	1		

Comment:

Report Id	Completed	Question	Category
270	True	If applicable to the source protection region/area, did the Source Protection Authority complete the reportable on the environmental monitoring of drinking water issues using the 2018 EAR Excel workbook file which can be downloaded from the FAQ section of the EAR navigation bar? Choose "No" if not applicable and indicate as such in the Comments box below.	Environmental monitoring for drinking water issues
Answer:	Yes		

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id	Completed	Question	Category
280	True	How many notices about transport pathways (meaning a condition of land resulting from human activity (e.g., pits and quarries, improperly abandoned wells, geothermal system, etc.) that increases the vulnerability of a raw water supply of a drinking water system) did the source protection authority receive from municipalities in this reporting period (as per O. Reg. 287/07, ss. 27(3))?	Transport pathways
Answer:	0		
Comment:			



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id **Completed** **Question**

281 True Where transport pathway notices were received, indicate the action(s) taken by the source protection region/area in response to receiving these notices:

Response	Answer
Provided information to municipalities about changes in vulnerability	No
Provided notice to Source Protection Committee for information	No
Situation continues to be monitored	No

Comment: No transport pathway notices were received.



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id **Completed** **Question**

290 True [OPTIONAL]: Indicate specific actions taken by any person or body to reduce the impacts that transport pathways could have on sources of drinking water.

Response	Answer
Funding made available for proper well decommissioning	No
Municipality decommissioning wells in accordance with O. Reg. 903	No
Private landowners decommissioning wells in accordance with O. Reg. 903	No

Comment: Long Point Region Source Protection Authority will not be providing responses to optional questions.



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id Completed Question

300 True [OPTIONAL]: If and where there are successful examples for each of the following initiatives in the source protection region/area (including from local municipalities, residents and businesses) that the authority wishes to highlight, then please indicate in the Comments field below. In your comments, please include details for each of the selected topics. Please limit the descriptions provided (e.g., one example for each topic or more could be included when the source protection authority feels they are exceptional/quite successful.

Response	Answer
Education and Outreach (in description include details, if available, on type and percentage of target population reached, outcome(s) achieved, etc.)	No
Incentives (in description include details, if available, on outcome(s) achieved, how widely available was the incentive, etc.)	No
Stewardship Programs	No
Best Management Practices	No
Pilot Programs	No
Research	No
Specify Action (e.g., road salt management, municipal by-laws, legislative or regulatory amendments, mapping, review of fuel codes, new airport facility design standards to manage runoff of chemicals from de-icing of aircraft, instrumentation, etc.)	No
Climate Change (e.g., data collection)	No
Spill prevention/spill contingency/emergency response plan updates	No
Transport pathways	No
Water quantity	No
Great Lakes	No
Other policies (i.e., strategic action, etc.)	No

Comment: Long Point Region Source Protection Authority will not be providing responses to optional questions.



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id	Completed	Question	Category
305	True	Did the Source Protection Authority complete the reportable to indicate the running tally (i.e., cumulative count) of progress made in addressing significant threats engaged in at the time of source protection plan approval (i.e., enumerated as existing) in the 2018 EAR Excel workbook which can be downloaded from the FAQ section of the EAR navigation bar?	Addressing existing enumerated threats
Answer:		Yes	

Comment:

Report Id	Completed	Question	Category
310	True	Please provide comments below to explain the overall progress made in addressing these significant threats. Include the percentage of overall progress made in the comments provided. The percentage of overall progress made in addressing local threats and conditions that are taking place on the landscape is determined by taking the total number in column D (i.e., significant drinking water threat addressed because policy is implemented) from the table completed in the 2018 EAR Excel workbook (see Tally of enumerated threats tab) and dividing it into the number that is derived by adding the total numbers in columns A and B and then subtracting this sum total from the total in column C. In other words, overall progress made = D/A B-C.	Addressing existing enumerated threats
Answer:		The percentage of overall progress made is 8%. Progress has been limited in large part due to technical work that was completed in 2017 and included in the Draft Updated Long Point Region Source Plan that has remained draft until the plan was approved on March 11, 2019.	

Comment:

Report Id	Completed	Question	Category
320	True	If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the work plans through amendments carried out under section 34 or section 36 of the Clean Water Act for Technical rule 30.1: Water Budget Tier 3.	Assessment report information gaps
Answer:		No workplans were required to be implemented for the Long Point Region Assessment Report.	

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id	Completed	Question	Category
321	True	If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the work plans through amendments carried out under section 34 or section 36 of the Clean Water Act for Technical rule 50.1: GUDI for WHPA-E and F.	Assessment report information gaps
Answer: No workplans were required to be implemented for the Long Point Region Assessment Report.			

Comment:

Report Id	Completed	Question	Category
322	True	If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the work plans through amendments carried out under section 34 or section 36 of the Clean Water Act for Technical rule 116: Issue Contributing Area.	Assessment report information gaps
Answer: No workplans were required to be implemented for the Long Point Region Assessment Report.			

Comment:

Report Id	Completed	Question	Category
330	True	Does the source protection authority have any other item(s) on which it wishes to report? If so, please explain.	Other reporting items
Answer: Any comments from the Source Protection Committee to be included here.			

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id	Completed	Question	Category
340	True	What positive outcomes (e.g., less water consumption, changes in behaviour, reduction in phosphorus and nitrogen concentrations, less chloride from road salt, reduction in algal blooms, human health protected, etc.), if any, have potentially resulted from the implementation of source protection plan policies? Please describe the outcomes below.	Source protection outcomes
Answer:		The Risk Management Official/Risk Management Inspector have noted a change in property owner behaviour during site inspections. People appear interested in protecting source water and are willing to change swap out chemicals for more environmentally-sensitive options.	
Comment:			



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id Completed Question

350 True In the opinion of the Source Protection Committee, to what extent have the objectives of the source protection plan been achieved in this reporting period?

Response	Answer
Progressing Well/On Target - The majority of the source protection plan policies have been implemented and/or are progressing well	No
Satisfactory - Some of the source protection plan policies have been implemented and/or are progressing well	Yes
Limited Progress made - A few of source protection plan policies have been implemented and/or are progressing well	No

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Long Point

Report Id	Completed	Question	Category
351	True	Please provide comments to explain how the Source Protection Committee arrived at its opinion. Include a summary of any discussions that might have been had amongst the Source Protection Committee members, especially where no consensus was reached.	Achievement of source protection plan objectives
Answer:		683 significant drinking water threats were identified in the Long Point Region Source Protection Area when the Plan took effect. Since implementation of the plan, 10% of threats have been removed through field verification or have been addressed because policy is implemented. Progress has been limited in large part due to technical work that was completed in 2017 and included in the Draft Updated Long Point Region Source Protection Plan that has remained draft until the plan was approved on March 11, 2019. Additionally, 36% of applicable plan policies that address significant drinking water threats are implemented or in progress.	
Comment:			

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #20a: Implementation Status of source protection plan policies

NOTE : Only complete this tab if you wish to record counts and calculate percentages of policies implemented using the Excel format option. Complete the four tables below to indicate the implementation status of various policies in your source protection plan. The percentages calculated and reported in tables 1 to 3 below should be cumulative percentages (i.e., status of policies since the source protection plan effective date). See Guidance for more details.

Table 1a. Implementation status of *legally binding* policies that address *significant* drinking water threat activities.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	18	14.17%
Implemented - Policy outcome(s) evaluated; no further action(s) required	0	0.00%
In progress/some progress made	28	22.05%
No progress made	6	4.72%
No information available/no response received	0	0.00%
No response required/not applicable	75	59.06%
TOTAL	127	100.00%

Table 1b. Implementation status of *non-binding* policies that address *significant* drinking water threat activities.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	3	37.50%
Implemented - Policy outcome(s) evaluated; no further action(s) required	0	0.00%
In progress/some progress made	3	37.50%
No progress made	0	0.00%
No information available/no response received	0	0.00%
No response required/not applicable	2	25.00%
TOTAL	8	100.00%

Table 2. Implementation status of policies that address *moderate-low* (any policy tool, any legal effect) drinking water threat activities.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	0	
Implemented - Policy outcome(s) evaluated; no further action(s) required	0	
In progress/some progress made	0	
No progress made	0	
No information available/no response received	0	
No response required/not applicable	0	
TOTAL	0	0

Table 3. Implementation status of policies (i.e., transport pathway, general education & outreach, some specify action, etc.) *not* directly associated with addressing specific drinking water threats.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	31	77.50%
Implemented - Policy outcome(s) evaluated; no further action(s) required	0	0.00%
In progress/some progress made	6	15.00%
No progress made	2	5.00%
No information available/no response received	0	0.00%
No response required/not applicable	1	2.50%
TOTAL	40	100.00%

Questions #20b: Implementation status of source protection plan policies

As required by O. Reg. 287/07, ss. 52(1), p. 1, complete the table below to summarize the reasons for results recorded above as being "No progress made" and/or "No information available/no response received" by the dates specified in your source protection plan for significant drinking water threat activities (Table 1a) and for any moderate/low threat policies that use prescribed instruments and *Planning Act* tools with the following details. Insert additional rows as needed.

Policy ID	Name of Implementing Body	Explanation of why actions were not taken by the person(s) or body(ies)	Outline next steps to support implementation
NC-CW-4.4	Norfolk County	Due to WHPA updates proposed in the Draft Updated Long Point Region SPP, education and outreach programs for agricultural significant drinking water threats have not been initiated.	The education and outreach program has been developed to include mail-outs to landowners engaged in agricultural significant drinking water threats. These mail-outs will be delivered following the approval of the Draft Updated Long Point Region Source Protection Plan.
NC-CW-5.2	Norfolk County	Due to WHPA updates proposed in the Draft Updated Long Point Region SPP, education and outreach programs for agricultural significant drinking water threats have not been initiated.	See next steps above
NC-CW-6.2	Norfolk County	Due to WHPA updates proposed in the Draft Updated Long Point Region SPP, education and outreach programs for agricultural significant drinking water threats have not been initiated.	See next steps above
NC-CW-8.2	Norfolk County	Due to WHPA updates proposed in the Draft Updated Long Point Region SPP, education and outreach programs for agricultural significant drinking water threats have not been initiated.	See next steps above

NC-CW-12.2	Norfolk County	Due to WHPA updates proposed in the Draft Updated Long Point Region SPP, education and outreach programs for fuel handling and storage significant drinking water threats have not been initiated.	See next steps above
NC-CW-16.5	Norfolk County	Due to WHPA updates proposed in the Draft Updated Long Point Region SPP, education and outreach programs for agricultural significant drinking water threats have not been initiated.	See next steps above

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #220: Land Use Planning

Select the municipality(ies) (including upper-, lower-, and single-tier) within the source protection region/area that are required to complete Official Plan and Zoning by-law conformity exercises for source protection and then select the status of those exercises in the table below for each municipality. Add as many rows as needed.

***NOTE** : Applies to every municipality affected by land use planning or Part IV type policies.

Municipality Name (select from drop down menu)	Status of Official Plan Conformity Exercise (select from drop down menu)	Status of Zoning By-law Conformity Exercise (select from drop down menu)
Corporation of Norfolk County	Completed	Completed
Elgin, County of	Completed	ZBL Conformity Exercise Not Applicable
Municipality of Bayham	In process	In process
Oxford, County of	In process	ZBL Conformity Exercise Not Applicable
Town of Tillsonburg	OP Conformity Exercise Not Applicable	In process
Township of Malahide	Completed	Completed
Township of Norwich	OP Conformity Exercise Not Applicable	In process
Township of South-West Oxford	OP Conformity Exercise Not Applicable	In process

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #270: Environmental monitoring of drinking water issues

If applicable to the source protection region/area, complete the table below.

Drinking Water System Number	Drinking Water System	Drinking Water Issue/Parameter	Has the Issue Contributing Area been delineated for this issue? (select Yes/No from drop down list)	Observations (select from drop down menu list)	Actions/Behavioural Changes Contributing to Change in Observations (NOTE : Only complete if "Increasing concentration/trend" or "Decreasing concentration/trend" is selected in previous column for the drinking water issue/parameter)
260074854	Richmond	Nitrate	Yes	Not enough data to determine changes	0
220000371	Simcoe - Cedar St. Well and	Nitrate	Yes	No change in concentration	Nitrate concentration in Cedar St. and Chapel St. wells have remained approximately the same from 2015 to 2017; therefore, no actions/behavioural changes have contributed to a change in observations.
220000683	Tillsonburg	Nitrogen	Yes	Not enough data to determine changes	0

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #305: Enumerated threats - Progress made in addressing significant threats engaged in at time of source protection plan approval (i.e., enumerated as existing)

Complete the table of significant drinking water threats that were being engaged in (i.e., enumerated as 'existing' significant threats/threats) at the time of source protection plan approval by using the formula for the running tally of enumerated threats as explained below.

Lead source protection authorities will be maintaining a running tally of progress made in addressing significant threats that were on the ground before plans were approved. The running tally consists of the formula: A+B-C-D where:

- *A = Original estimate of significant drinking water threats engaged in/enumerated when source protection plan approved*
- *B = Additional significant drinking water threats identified after first source protection plan approved as a result of field verification (i.e., not part of original estimate of significant drinking water threat)*
- *C = Significant drinking water threats included in enumeration estimates at time of plan approval but subsequently determined through field verification that: (i) it was **not** actually engaged in at a particular location after all OR (ii) it was **no longer** engaged in (e.g., land may still have an agricultural operation but owner no longer applying pesticides for their own reasons)*
- *D = Significant drinking water threats addressed because policy is implemented* (* **Note** : Where multiple policy tools address any given threat sub-category, implemented means that actions associated with at least one policy tool have been completed/are in place.) Source protection authorities may use their local discretion in which policy tool they wish to reflect as being implemented.*

Threat ID	Prescribed Drinking Water Threat/Local threat/condition	A	B	C	D	No. of existing threats still to be addressed (A+B-C-D)
1	<input type="checkbox"/> The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> .	17	0	0	15	2
2	<input type="checkbox"/> The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	174	0	3	35	136

3	<input type="checkbox"/> The application of agricultural source material to land.	126	0	4	4	118
4	<input type="checkbox"/> The storage of agricultural source material	93	0	0	0	93
5	<input type="checkbox"/> The management of agricultural source material	0	0	0	0	0
6	<input type="checkbox"/> The application of non-agricultural source material to land	1	0	1	0	0
7	<input type="checkbox"/> The handling and storage of non-agricultural source material	2	0	0	0	2
8	<input type="checkbox"/> The application of commercial fertilizer to land	84	0	0	0	84
9	<input type="checkbox"/> The handling and storage of commercial fertilizer	13	0	0	0	13
10	<input type="checkbox"/> The application of pesticide to land	53	0	1	0	52
11	<input type="checkbox"/> The handling and storage of pesticide	8	0	0	0	8
12	<input type="checkbox"/> The application of road salt	0	0	0	0	0
13	<input type="checkbox"/> The handling and storage of road salt	1	0	0	0	1
14	<input type="checkbox"/> The storage of snow	1	0	0	0	1

15	<input type="checkbox"/> The handling and storage of fuel	65	1	1	0	65
16	<input type="checkbox"/> The handling and storage of a dense non-aqueous phase liquid	35	3	2	0	36
17	<input type="checkbox"/> The handling and storage of an organic solvent	3	0	0	0	3
18	<input type="checkbox"/> The management of runoff that contains chemicals used in the de-icing of aircraft	0	0	0	0	0
19	<input type="checkbox"/> The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard O. Reg. 385/08, s. 3.	7	0	0	0	7
20	<input type="checkbox"/> Water taking from an aquifer without returning the water to the same aquifer or surface water body	0	0	0	0	0
21	<input type="checkbox"/> Reducing recharge of an aquifer	0	0	0	0	0
22	<input type="checkbox"/> Establishment and operation of a liquid hydrocarbon pipeline	0	0	0	0	0
	<input type="checkbox"/> Local threat #1 (if applicable, please specify) _____	0	0	0	0	0
	<input type="checkbox"/> Local threat #2 (if applicable, please specify) _____	0	0	0	0	0
	<input type="checkbox"/> Local condition #1 (if applicable, please specify) _____	0	0	0	0	0
	<input type="checkbox"/> Local condition #2 (if applicable, please specify) _____	0	0	0	0	0
TOTAL		683	4	12	54	621

Appendix C

Annual Reporting Letter to the SPA

April 4, 2019

Michael Columbus, Chair
4 Elm St.
Tillsonburg, ON N4G 0C4

Dear Mr. Columbus:

The Long Point Region Source Protection Plan has been in effect since July 1, 2016 with the primary objective to protect current and future sources of drinking water from contamination and overuse.

In accordance with Ontario Regulation 287/07 s.52, Long Point Region Source Protection Authority (SPA) is required to submit source protection plan annual progress reports to the Ministry of the Environment, Conservation and Parks (MECP) by May 1, 2019. The reports provide valuable information about the implementation of the Long Point Region Source Protection Plan and the overall success of the program. The Long Point Region Annual Progress Report and Supplemental Form reflect implementation efforts from July 1, 2016 to December 31, 2018 (see attached).

On April 4, 2019 the Lake Erie Region Source Protection Committee passed the following resolution:

THAT in the opinion of the Lake Erie Region Source Protection Committee, implementation of the Long Point Region Source Protection Plan has progressed satisfactorily towards achieving the plan objectives.

AND THAT the Lake Erie Region Source Protection Committee direct staff to finalize the draft Long Point Region Annual Progress Report and Supplemental Form and annual reporting objectives letter for submission to the Long Point Region Source Protection Authority for submission to the Ministry of the Environment, Conservation and Parks, along with any Source Protection Committee comments, in accordance with S.46 of the Clean Water Act, 2006 and any Director's instructions established under O. Reg. 287/07 S.52.

As such, this letter serves as a notice pursuant to the annual progress reporting administrative protocol, adopted by the Lake Erie Source Protection Region Management Committee (see attached management committee report 17-01-03), to submit the final Long Point Region Annual Progress Report and Supplemental Form to the Long Point Region Source Protection Authority.

Achievement of Source Protection Plan Objectives

It is the opinion of the Lake Erie Region Source Protection Committee that the objectives of the Long Point Region Source Protection Plan have progressed satisfactorily towards achieving the plan objectives in this reporting period (July 1, 2016 - December 31, 2018).

Rationale

683 significant drinking water threats were identified in the Long Point Region Source Protection Area when the Plan took effect. Since implementation of the plan, 10% of threats have been removed through field verification or have been addressed because policy is implemented. Progress has been limited in large part due to technical work that was completed in 2017 and included in the Draft Updated Long Point Region Source Protection Plan that has remained draft until the plan was approved on March 11, 2019.

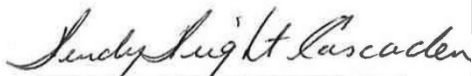
Additionally, 36% of applicable plan policies that address significant drinking water threats are implemented or in progress.

(Insert additional committee comments if applicable).

On behalf of the Lake Erie Region Source Protection Committee, the SPA is now tasked with considering the provincially-required annual progress reports and submitting them to the MECF, together with the committee's comments, and any comments the SPA wishes to make.

If you have any questions regarding this letter, or the Long Point Region Annual Progress Report and Supplemental Form, please contact Ilona Feldmann at 519-621-2763 ext. 2318 or ifeldmann@grandriver.ca.

Sincerely,



Wendy Wright-Cascaden
Chair, Lake Erie Region Source Protection Committee

cc:

Judy Maxwell, General Manager/Secretary-Treasurer, LPRCA

LAKE ERIE REGION SOURCE PROTECTION COMMITTEE

REPORT NO. SPC-19-04-07

DATE: April 4, 2019

TO: Members of the Lake Erie Region Source Protection Committee

SUBJECT: Grand River Annual Progress Report

RECOMMENDATION:

THAT the Lake Erie Region Source Protection Committee receives report SPC-19-04-07 – Grand River Annual Progress Report - for information.

THAT in the opinion of the Lake Erie Region Source Protection Committee, implementation of the Grand River Source Protection Plan has progressed well and is on target towards achieving the plan objectives.

AND THAT the Lake Erie Region Source Protection Committee direct staff to finalize the draft Grand River Annual Progress Report and Supplemental Form and annual reporting objectives letter for submission to the Grand River Source Protection Authority for submission to the Ministry of the Environment, Conservation and Parks, along with any Source Protection Committee comments, in accordance with S.46 of the Clean Water Act, 2006 and any Director's instructions established under O. Reg. 287/07 S.52.

REPORT:

Background

In accordance with Ontario Regulation 287/07 s.52, all four Lake Erie Region Source Protection Authorities (Grand River, Grand River, Kettle and Catfish Creek) are required to submit an Annual Progress Report to the Director by May 1 in the year following the year to which the report applies. Both the Ministry of the Environment, Conservation and Parks' (MECP) Source Protection Annual Progress Report and the Supplemental Form are to be submitted as they are considered "prescribed forms" under O. Reg. 287/07 s.52(5). The first Grand River and Long Point Region, and second Kettle Creek and Catfish Creek Annual Progress Reports and Supplemental Forms are due for submission to the MECP in May 2019.

Annual Progress Report and Supplemental Form

The Grand River Annual Progress Report is a public-facing document developed by the MECP and prepared by Lake Erie Region staff. The report provides valuable information about the implementation of the Grand River Source Protection Plan and the overall success of the program (**Appendix A**). The first Grand River Annual Progress Report reflects implementation efforts from July 1, 2016 to December 31, 2018.

Information presented in the progress report is intended to be a high-level reflection of annual reporting results collected through the Grand River Supplemental Form. The Supplemental Form is a tool to collect key information from implementing bodies to help convey the story of progress made in the Grand River Source Protection Area using a series of questions (**Appendix B**).

The Supplemental Form includes two questions that require Source Protection Committee input (SPC): the first, the committee’s opinion on the extent to which objectives in the plan have been achieved during the reporting period and the second, comments to explain how the committee arrived at its opinion.

Lake Erie Region staff have reviewed the results of the Supplemental Form and Annual Progress Report and recommend the following responses:

Question ID 350

In the opinion of the Source Protection Committee, to what extent have the objectives of the source protection plan been achieved in this reporting period?

Progressing well/on target – majority of the source protection plan policies have been implemented and/or are progressing well.	✓
Satisfactory - Some of the source protection plan policies have been implemented and/or are progressing well.	
Limited progress made - A few of source protection plan policies have been implemented and/or are progressing well.	

Reportable ID 351

Please provide comments to explain how the Source Protection Committee arrived at its opinion. Include a summary of any discussions that might have been had amongst the Source Protection Committee members, especially where no consensus was reached.

7447 significant drinking water threats were identified in the Grand River Source Protection Area when the Plan took effect. Since implementation of the plan, 19% of threats have been removed through field verification or have been addressed because policy is implemented. The percentage of overall progress made is likely a reflection of progress for municipalities that have a large number of significant threats. For these municipalities, implementation may be phased over many years given the large number of properties and limited staff resources. Some municipalities have opted to prioritize properties and activities with the highest potential for impact.

Additionally, 82% of applicable plan policies that address significant drinking water threats are implemented or in progress.

Annual Reporting Letter to SPA

In addition to the annual progress reports, Lake Erie Region staff have drafted an annual reporting letter to be submitted to the Grand River Source Protection Authority in accordance with the Lake Erie Region’s annual progress reporting administrative protocol (**Appendix C**). The letter includes comments about the extent to which objectives set out in the source protection plan are being achieved and will include any additional committee comments.

Prepared by:



Ilona Feldmann
Source Protection Program Assistant

Approved by:



Martin Keller, M. Sc.
Source Protection Program Manager

Appendix A
Grand River Annual Progress Report

Source Protection Annual Progress Report | 04/04/2019

I. Introduction

This annual progress report outlines the progress made in implementing the source protection plan for the **Grand River Source Protection Area**, as required by the Clean Water Act and regulations.

We acknowledge and recognize the tremendous efforts made by our local municipality, stakeholders and Source Protection Committee in the development of the Source Protection Plan and implementation of Source Protection policies.



II. A message from your local Source Protection Committee

Our progress score on achieving source protection plan objectives this reporting period:

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

7447 significant drinking water threats were identified in the Grand River Source Protection Area when the Plan took effect. Since implementation of the plan, 19% of threats have been removed through field verification or have been addressed because policy is implemented. The percentage of overall progress made is likely a reflection of progress for municipalities that have a large number of significant threats. For these municipalities, implementation may be phased over many years given the large number of properties and limited staff resources. Some municipalities have opted to prioritize properties and activities with the highest potential for impact.

Additionally, 82% of applicable plan policies that address significant drinking water threats are implemented or in progress.

III. Our Watershed

To learn more, please read our assessment report(s) and source protection plan(s).

The Grand River Source Protection Area (watershed) covers an area of approximately 6,800 square kilometres, and contains 39 upper, lower and single-tier municipalities and two First Nations bands. The watershed contributes about ten percent of the drainage to Lake Erie.

The residents of the Grand River watershed receive drinking water supplies from both private and municipal supplies. 50 municipal systems and one First Nation system provide water to 865,538 residents in the watershed.

7447 significant drinking water threat activities were identified in the Grand River Source Protection Area when the plan went in to effect. Since that time, 19% of threats have been addressed.

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

1. Source Protection Plan Policies

P: Progressing Well/On Target

The majority (82%) of applicable legally-binding plan policies that address significant drinking water threats are implemented or in progress, or determined to require no further action(s).

2. Municipal Progress: Addressing Risks on the Ground

Twenty-two municipalities in the Grand River Source Protection Area have vulnerable areas where policies addressing significant drinking water threats apply.

P: Progressing Well/On Target - 28 municipalities in the Grand River Source Protection Area are required to review and update their Official Plan to ensure it conforms with the Grand River Source Protection Plan the next time they undertake an Official Plan review under the Planning Act. Eight Official Plan amendments have been completed, one is under appeal, nine are in process, and ten have not been started.

3. Septic Inspections

P : Progressing Well/On Target

93% of on-site sewage systems have been inspected in accordance with the Ontario Building Code. Results found 63% of the inspections required minor maintenance, e.g., pump-outs and only 6% required major maintenance such as tank replacement.

4. Risk Management Plans

P: Progressing Well/On Target

Since the Grand River Source Protection Plan took effect, 82 risk management plans have been established in the Grand River Source Protection Area.

252 inspections have been carried out or planned by a Risk Management Official/Inspector for prohibited or regulated activities. Only one inspection was in non-compliance with the specific contents of the risk management plan.

5. Provincial Progress: Addressing Risks on the Ground

P: Progressing Well/On Target

Ontario ministries are reviewing 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 the Grand River Source Protection Plan to address existing activities that pose a significant risk to sources of drinking water. The provincial approvals are being amended or revoked where necessary to conform with plan policies. The Grand River Source Protection policies set out a timeline of 3 years to complete the review and make any necessary changes. The ministries have completed this for 99% of previously issued provincial approvals in the Grand River Source Protection Area.

6. Source Protection Awareness and Change in Behaviour

21 Drinking Water Protection Zones signs have been installed in the Grand River Source Protection Area.

The following positive outcomes have been reported by municipalities in the Grand River Source Protection Area:

- increased public knowledge about threats to local drinking water sources, particularly rural property owners
- reduction in chloride concentration in a well due to changes in salt storage
- Industrial plant switched the use of petroleum-based lubricant to vegetable oil
- new requirement to have Drinking Water Threat Disclosure Report in wellhead protection areas where significant drinking water threats may be present
- Increased involvement with local Development Review Committee to build relationships with potential business to evaluate source protection impacts

7. Source Protection Plan Policies: Summary of Delays

Delays in implementing source protection plan policies have been noted in the County of Brant, County of Dufferin, Region of Waterloo and City of Brantford.

Summary of rationale for delays include:

- existing policy being revised through ongoing S.34 update and will therefore change in the near future
- policy has been evaluated and determined that the type of action outlined in the policy is not the best approach given the number of identified significant drinking water threats
- time constraints
- delay of policies due to priority of others

8. Source Water Quality: Monitoring and Actions

There are 14 drinking water systems in the Grand River Source Protection Area with identified drinking water issues.

Municipalities have monitoring and treatments systems in place to ensure that municipal drinking water meets the requirements under Safe Drinking Water Act, 2002.

Two system are no longer being monitoring as issue has improved and three systems report decreasing concentrations/trends. For those systems where there are no improvements, municipalities will continue to collect data to monitor the issues.

9. Science-based Assessment Reports: Work Plans

No workplans were required to be implemented for the Grand River Assessment Report.

10. More from the Watershed

To learn more about the Grand River Source Protection Area visit, <http://www.sourcewater.ca>

Appendix B

Grand River Annual Progress Reporting Supplemental Form



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id Completed Question

10 True As applicable to your source protection region/area, indicate if the relevant implementing bodies submitted a status update/annual report to the source protection authority for the previous reporting year. If "No" is selected for any implementing body(ies), then please complete the Comments field below with details including the name of the specific implementing body along with an explanation, if available, for not submitting a status update/annual report as required by a monitoring policy.

Response	Answer
Risk Management Official	Yes
Municipality	No
Conservation Authority	No
Local Health Unit	No
MECP - Waste Disposal Sites - Landfilling and Storage	Yes
MECP - Wastewater/Sewage Works	Yes
MECP - Pesticides	Yes
MECP - Hauled Sewage/Biosolids	Yes
MECP - Permit to Take Water	Yes
MECP - Municipal Residential Drinking Water Systems	Yes
OMAFRA	Yes
MNRF	Yes
MTO	Yes
MMAH	No
MGCS-TSSA	No
Provincial Board/Commission	No
Federal Departments/Agencies/Commissions/Crown Corporations	No
Private Entity/Company	No
Association/Organization	No
MECP - Other Policies	Yes
MECP - Waste Disposal Sites - Landfilling and Storage Inspections	Yes
MECP - Wastewater/Sewage Works Inspections	Yes
MECP - Conditions Sites	Yes



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

MECP - NMA - ASM and NASM Inspections

Yes

MENDM

No

Comment: Haldimand County did not complete annual reporting requirements.



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id	Completed	Question	Category
20	True	Did the Source Protection Authority (i) indicate the status of all threat policies as contained in their source protection plan by using one of the two options outlined in the guidance document (ID 20a) AND (ii) complete the table to indicate which implementing body(ies) have not yet made any progress in policy implementation in reportable ID 20b?	Implementation status of source protection plan policies
Answer:	No		

Comment: The Grand River Source Protection Authority indicated the status of all threat policies by using one of the two options as outlined in the guidance document: the implementation of various policies captured in the tables provided in the annual progress reporting supplemental form. The Source Protection Authority has not indicated the specific implementation status of each policy. Lake Erie Region staff are working with the ministry to complete this outstanding annual reporting requirement.

Report Id	Completed	Question	Category
30	True	Number of risk management plans agreed to or established within the source protection area/region (for existing and future threats) during the reporting period (i.e., annual total).	Part IV (Sections 57, 58 & Section 59)
Answer:	82		

Comment:

Report Id	Completed	Question	Category
31	True	Number of properties (i.e., parcels) with risk management plans agreed to or established for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:	106		

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id	Completed	Question	Category
32	True	How many existing* significant drinking water threats have been managed through the established risk management plans for this reporting period (* meaning engaged in OR enumerated as existing significant threats)?	Part IV (Sections 57, 58 & Section 59)
Answer:	71		

Comment:

Report Id	Completed	Question	Category
40	True	How many section 59 notices were issued in this reporting period for activities to which neither a prohibition (section 57) nor a risk management plan (section 58) policy applied, as per ss. 59(2)(a) of the Clean Water	Part IV (Sections 57, 58 & Section 59)
Answer:	2144		

Comment:

Report Id	Completed	Question	Category
41	True	How many section 59 notices were issued in this reporting period for activities to which a risk management plan (section 58) policy applied, as per ss. 59(2)(b) of the Clean Water Act?	Part IV (Sections 57, 58 & Section 59)
Answer:	68		

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id	Completed	Question	Category
50	True	For the purposes of section 61 of O. Reg. 287/07, how many notices and/or copies of prescribed instruments that state the prescribed instrument conforms with the significant drinking water threat policies in the source protection plan (i.e., statement of conformity confirms the instrument holder is exempt from requiring a risk management plan) did the risk management official receive?	Part IV (Sections 57, 58 & Section 59)
Answer:	0		

Comment:

Report Id	Completed	Question	Category
60	True	State the total number of inspections (including any follow-up site visits) that were carried out for activities (existing or future) that are prohibited under section 57 of the Clean Water Act for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:	50		

Comment:

Report Id	Completed	Question	Category
61	True	How many properties (i.e., parcels) had inspections for the purposes of section 57 for this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:	35		

Comment:



Source Water Protection Annual Report

2018 - Supplemental Form

Grand River

Report Id	Completed	Question	Category
62	True	Among the inspections conducted for section 57, how many showed that activities were taking place on the landscape even though they were prohibited (i.e., in contravention) under section 57 of the Clean Water Act for this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:	0		

Comment:

Report Id	Completed	Question	Category
70	True	How many existing significant drinking water threats have been prohibited as a result of section 57 prohibitions in this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:	12		

Comment:

Report Id	Completed	Question	Category
80	True	State the total number of inspections (including any follow-up site visits) that were carried out for activities that require a risk management plan under section 58 of the Clean Water Act for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:	202		

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id	Completed	Question	Category
81	True	How many properties (i.e., parcels) had inspections for the purposes of section 58 for this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:		180	

Comment:

Report Id	Completed	Question	Category
82	True	Among the inspections conducted for section 58, how many were in contravention with section 58 of the Clean Water Act for this reporting period (i.e., person engaging in a drinking water threat activity without a risk management plan as required by the source protection plan)?	Part IV (Sections 57, 58 & Section 59)
Answer:		4	

Comment:

Report Id	Completed	Question	Category
83	True	Among the inspections for section 58, how many were in non-compliance with the specific contents of the risk management plan for this reporting period? (NOTE: Please only include those inspections that showed non-compliance with measures/conditions to manage the actual threat activity.)	Part IV (Sections 57, 58 & Section 59)
Answer:		1	

Comment:



Source Water Protection Annual Report

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Grand River

Report Id	Completed	Question	Category
84	True	State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 57 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:	0		

Comment:

Report Id	Completed	Question	Category
85	True	State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 58 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:	0		

Comment:

Report Id	Completed	Question	Category
86	True	State the total number of orders issued for contraventions and/or non-compliance found with section 57 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:	0		

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id	Completed	Question	Category
87	True	State the total number of orders issued for contraventions and/or non-compliance found with section 58 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:	0		

Comment:

Report Id	Completed	Question	Category
90	True	[OPTIONAL]: What new/additional knowledge (e.g., threats, transport pathways, abandoned wells, etc. and how they are managed), if any, did the lead source protection authority gain through communication with their Risk Management Official/Risk Management Inspector, based on the Risk Management Official/Risk Management Inspector's work in the field?	Part IV (Sections 57, 58 & Section 59)
Answer:	N/A		

Comment: Grand River Source Protection Authority will not be providing responses to optional questions.

Report Id	Completed	Question	Category
220	True	Did the Source Protection Authority complete the Land Use Planning reportable using the 2018 EAR Excel Workbook which can be downloaded from the FAQ section of the EAR navigation bar?	Land Use Planning
Answer:	Yes		

Comment:



Source Water Protection Annual Report

2018 - Supplemental Form

Grand River

Report Id Completed Question

230 True Indicate the methods by which education and outreach policies have been/are being implemented in the source protection region/area for the reporting period by all the relevant implementing bodies from the checklist below. Choose all that apply.

Response	Answer
use of educational materials for general public (e.g., “Source Water Protection - 2018 resources” on Conservation Ontario’s website)	Yes
use of educational materials for target audiences including developers, builders, landowners, farmers, etc. (e.g., “Source Water Protection - 2018 resources” on Conservation Ontario’s website)	Yes
workshops	Yes
site visits	Yes
source protection content for websites	Yes
educational videos (e.g., Drinking Water Source Protection video available Conservation Ontario)	No
podcasts	No
collaboration with other bodies (e.g., ministries, local organizations, etc.)	Yes
social media promotion (e.g., use of Facebook, Twitter, Instagram, etc.)	Yes
media advertising (e.g., print media, radio, television) in news media and/or industry/stakeholder specific publications	Yes
integration with other outreach programs or campaigns (e.g., Community Environment Days, etc.)	No
articles in publications	Yes
information kiosks at events/festivals	Yes
methods for implementing Education and Outreach not yet determined	Yes

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id Completed Question

231 True From among the method(s) used to implement education and outreach policies by the source protection authority or by other local bodies (e.g., municipalities), indicate the top three used that were found to be the most successful in meeting the intent of education and outreach policies. Briefly explain how success was evaluated and any results achieved in the Comments field below.

Response	Answer
use of educational materials for general public (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website)	No
use of educational materials for target audiences including developers, builders, landowners, farmers, etc. (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website)	Yes
workshops	No
site visits	Yes
source protection content for websites	No
educational videos (e.g., Drinking Water Source Protection video available Conservation Ontario)	No
podcasts	No
collaboration with other bodies (e.g., ministries, local organizations, etc.)	No
social media promotion (e.g., use of Facebook, Twitter, Instagram, etc.)	No
media advertising (e.g., print media, radio, television) in news media and/or industry/stakeholder specific publications	No
integration with other outreach programs or campaigns (e.g., Community Environment Days, etc.)	Yes
articles in publications	No
information kiosks at events/festivals	No

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id	Completed	Question	Category
250	True	[OPTIONAL]: If applicable to the source protection region/area, in the response box below, briefly summarize the type of incentive(s) (e.g., prescribed instrument application fees waived, funding, other non-financial incentives, etc.) that was made available (whether as a policy in the source protection plan or not), the source that provided the incentive(s), the prescribed drinking water threat activity(ies) to which it relates, and the degree to which the incentive(s) assisted with the implementation of source protection plan policies that address significant drinking water threat activity(ies) (i.e., Full degree, Significant/large degree, Moderate degree, Some degree, or Limited degree) in your source protection region/area.	Incentives
Answer:		N/A	

Comment: Grand River Source Protection Authority will not be providing responses to optional questions.

Report Id	Completed	Question	Category
260	True	How many on-site sewage systems in the source protection area require inspections in accordance with the Ontario Building Code (i.e., once every five years)?	Sewage System Inspections
Answer:		1502	

Comment:

Report Id	Completed	Question	Category
261	True	Of those requiring inspections, how many on-site sewage systems (identified as significant drinking water threats) were inspected for this reporting period?	Sewage System Inspections
Answer:		1391	

Comment:



Source Water Protection Annual Report

2018 - Supplemental Form

Grand River

Report Id **Completed** **Question**

262 True If not all required on-site sewage systems were inspected, please indicate why they were not all inspected from among the options below:

Response	Answer
on-site sewage system(s) is newly constructed and therefore not captured in the first round of inspections	Yes
landowner refused entry, compliance order being sought	Yes
municipality has not yet initiated inspection program	Yes

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id	Completed	Question	Category
263	True	How many of the on-site sewage systems inspected required minor maintenance work (e.g., pump out, etc.)?	Sewage System Inspections
Answer:	871		

Comment:

Report Id	Completed	Question	Category
264	True	How many of the on-site sewage systems inspected required major maintenance work (e.g., tank replacement, etc.)?	Sewage System Inspections
Answer:	79		

Comment:

Report Id	Completed	Question	Category
270	True	If applicable to the source protection region/area, did the Source Protection Authority complete the reportable on the environmental monitoring of drinking water issues using the 2018 EAR Excel workbook file which can be downloaded from the FAQ section of the EAR navigation bar? Choose "No" if not applicable and indicate as such in the Comments box below.	Environmental monitoring for drinking water issues
Answer:	Yes		

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id	Completed	Question	Category
280	True	How many notices about transport pathways (meaning a condition of land resulting from human activity (e.g., pits and quarries, improperly abandoned wells, geothermal system, etc.) that increases the vulnerability of a raw water supply of a drinking water system) did the source protection authority receive from municipalities in this reporting period (as per O. Reg. 287/07, ss. 27(3))?	Transport pathways
Answer:	6		
Comment:			



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id **Completed** **Question**

281 True Where transport pathway notices were received, indicate the action(s) taken by the source protection region/area in response to receiving these notices:

Response	Answer
Provided information to municipalities about changes in vulnerability	No
Provided notice to Source Protection Committee for information	Yes
Situation continues to be monitored	Yes

Comment: Assessment of possible changes to vulnerability expected to be completed as part of future S.34 update.



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id **Completed** **Question**

290 True [OPTIONAL]: Indicate specific actions taken by any person or body to reduce the impacts that transport pathways could have on sources of drinking water.

Response	Answer
Funding made available for proper well decommissioning	No
Municipality decommissioning wells in accordance with O. Reg. 903	No
Private landowners decommissioning wells in accordance with O. Reg. 903	No

Comment: Grand River Source Protection Authority will not be providing responses to optional questions.



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id Completed Question

300 True [OPTIONAL]: If and where there are successful examples for each of the following initiatives in the source protection region/area (including from local municipalities, residents and businesses) that the authority wishes to highlight, then please indicate in the Comments field below. In your comments, please include details for each of the selected topics. Please limit the descriptions provided (e.g., one example for each topic or more could be included when the source protection authority feels they are exceptional/quite successful.

Response	Answer
Education and Outreach (in description include details, if available, on type and percentage of target population reached, outcome(s) achieved, etc.)	No
Incentives (in description include details, if available, on outcome(s) achieved, how widely available was the incentive, etc.)	No
Stewardship Programs	No
Best Management Practices	No
Pilot Programs	No
Research	No
Specify Action (e.g., road salt management, municipal by-laws, legislative or regulatory amendments, mapping, review of fuel codes, new airport facility design standards to manage runoff of chemicals from de-icing of aircraft, instrumentation, etc.)	No
Climate Change (e.g., data collection)	No
Spill prevention/spill contingency/emergency response plan updates	No
Transport pathways	No
Water quantity	No
Great Lakes	No
Other policies (i.e., strategic action, etc.)	No

Comment: Grand River Source Protection Authority will not be providing responses to optional questions.



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id	Completed	Question	Category
305	True	Did the Source Protection Authority complete the reportable to indicate the running tally (i.e., cumulative count) of progress made in addressing significant threats engaged in at the time of source protection plan approval (i.e., enumerated as existing) in the 2018 EAR Excel workbook which can be downloaded from the FAQ section of the EAR navigation bar?	Addressing existing enumerated threats
Answer:		Yes	

Comment:

Report Id	Completed	Question	Category
310	True	Please provide comments below to explain the overall progress made in addressing these significant threats. Include the percentage of overall progress made in the comments provided. The percentage of overall progress made in addressing local threats and conditions that are taking place on the landscape is determined by taking the total number in column D (i.e., significant drinking water threat addressed because policy is implemented) from the table completed in the 2018 EAR Excel workbook (see Tally of enumerated threats tab) and dividing it into the number that is derived by adding the total numbers in columns A and B and then subtracting this sum total from the total in column C. In other words, overall progress made = D/A B-C.	Addressing existing enumerated threats
Answer:		The percentage of overall progress made is 19%. The percentage of overall progress made is likely a reflection of progress for municipalities that have a large number of significant threats. For these municipalities, implementation may be phased over many years given the large number of properties and limited staff resources. Some municipalities have opted to prioritize properties and activities with the highest potential for impact.	

Comment:

Report Id	Completed	Question	Category
320	True	If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the work plans through amendments carried out under section 34 or section 36 of the Clean Water Act for Technical rule 30.1: Water Budget Tier 3.	Assessment report information gaps
Answer:		No workplans were required to be implemented for the Grand River Assessment Report.	

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id	Completed	Question	Category
321	True	If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the work plans through amendments carried out under section 34 or section 36 of the Clean Water Act for Technical rule 50.1: GUDI for WHPA-E and F.	Assessment report information gaps
Answer: No workplans were required to be implemented for the Grand River Assessment Report.			

Comment:

Report Id	Completed	Question	Category
322	True	If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the work plans through amendments carried out under section 34 or section 36 of the Clean Water Act for Technical rule 116: Issue Contributing Area.	Assessment report information gaps
Answer: No workplans were required to be implemented for the Grand River Assessment Report.			

Comment:

Report Id	Completed	Question	Category
330	True	Does the source protection authority have any other item(s) on which it wishes to report? If so, please explain.	Other reporting items
Answer: Any comments from the Source Protection Committee to be included here.			

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id	Completed	Question	Category
340	True	What positive outcomes (e.g., less water consumption, changes in behaviour, reduction in phosphorus and nitrogen concentrations, less chloride from road salt, reduction in algal blooms, human health protected, etc.), if any, have potentially resulted from the implementation of source protection plan policies? Please describe the outcomes below.	Source protection outcomes
Answer:		<p>The following positive outcomes have been reported by municipalities in the Grand River Source Protection Area:</p> <ul style="list-style-type: none">- increased public knowledge about threats to local drinking water sources, particularly rural property owners- reduction in chloride concentration in a well due to changes in salt storage- Industrial plant switched the use of petroleum-based lubricant to vegetable oil- new requirement to have Drinking Water Threat Disclosure Report in wellhead protection areas where significant drinking water threats may be present- Increased involvement with local Development Review Committee to build relationships with potential business to evaluate source protection impacts	
Comment:			



Source Water Protection Annual Report

2018 - Supplemental Form

Grand River

Report Id Completed Question

350 True In the opinion of the Source Protection Committee, to what extent have the objectives of the source protection plan been achieved in this reporting period?

Response	Answer
Progressing Well/On Target - The majority of the source protection plan policies have been implemented and/or are progressing well	Yes
Satisfactory - Some of the source protection plan policies have been implemented and/or are progressing well	No
Limited Progress made - A few of source protection plan policies have been implemented and/or are progressing well	No

Comment:



Source Water Protection Annual Report 2018 - Supplemental Form Grand River

Report Id	Completed	Question	Category
351	True	Please provide comments to explain how the Source Protection Committee arrived at its opinion. Include a summary of any discussions that might have been had amongst the Source Protection Committee members, especially where no consensus was reached.	Achievement of source protection plan objectives
Answer:		7447 significant drinking water threats were identified in the Grand River Source Protection Area when the Plan took effect. Since implementation of the plan, 19% of threats have been removed through field verification or have been addressed because policy is implemented. The percentage of overall progress made is likely a reflection of progress for municipalities that have a large number of significant threats. For these municipalities, implementation may be phased over many years given the large number of properties and limited staff resources. Some municipalities have opted to prioritize properties and activities with the highest potential for impact. Additionally, 82% of applicable plan policies that address significant drinking water threats are implemented or in progress.	
Comment:			

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #20a: Implementation Status of source protection plan policies

NOTE : Only complete this tab if you wish to record counts and calculate percentages of policies implemented using the Excel format option. Complete the four tables below to indicate the implementation status of various policies in your source protection plan. The percentages calculated and reported in tables 1 to 3 below should be cumulative percentages (i.e., status of policies since the source protection plan effective date). See Guidance for more details.

Table 1a. Implementation status of *legally binding* policies that address *significant* drinking water threat activities.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	234	34.77%
Implemented - Policy outcome(s) evaluated; no further action(s) required	27	4.01%
In progress/some progress made	294	43.68%
No progress made	9	1.34%
No information available/no response received	0	0.00%
No response required/not applicable	109	16.20%
TOTAL	673	100.00%

Table 1b. Implementation status of *non-binding* policies that address *significant* drinking water threat activities.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	28	52.83%
Implemented - Policy outcome(s) evaluated; no further action(s) required	1	1.89%
In progress/some progress made	8	15.09%
No progress made	2	3.77%
No information available/no response received	0	0.00%
No response required/not applicable	14	26.42%
TOTAL	53	100.00%

Table 2. Implementation status of policies that address *moderate-low* (any policy tool, any legal effect) drinking water threat activities.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	0	
Implemented - Policy outcome(s) evaluated; no further action(s) required	0	
In progress/some progress made	0	
No progress made	0	
No information available/no response received	0	
No response required/not applicable	0	
TOTAL	0	0

Table 3. Implementation status of policies (i.e., transport pathway, general education & outreach, some specify action, etc.) *not* directly associated with addressing specific drinking water threats.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	70	40.46%
Implemented - Policy outcome(s) evaluated; no further action(s) required	7	4.05%
In progress/some progress made	57	32.95%
No progress made	14	8.09%
No information available/no response received	2	1.16%
No response required/not applicable	23	13.29%
TOTAL	173	100.00%

Questions #20b: Implementation status of source protection plan policies

As required by O. Reg. 287/07, ss. 52(1), p. 1, complete the table below to summarize the reasons for results recorded above as being "No progress made" and/or "No information available/no response received" by the dates specified in your source protection plan for significant drinking water threat activities (Table 1a) and for any moderate/low threat policies that use prescribed instruments and *Planning Act* tools with the following details. Insert additional rows as needed.

Policy ID	Name of Implementing Body	Explanation of why actions were not taken by the person(s) or body(ies)	Outline next steps to support implementation
BC-CW-5.2	The County of Brant	The next Municipal Council Review is scheduled for 2022. Following the approval of the Draft Updated Grand River Source Protection Plan, this policy will no longer be applicable since the ICA for chloride will be removed from the Mount Pleasant Drinking Water Supply.	No further steps required
BC-CW-9.3	The County of Brant	The handling and storage of dense non-aqueous phase liquids (DNAPLs) has only been identified as significant drinking water threats for a small number of properties in the County of Brant. Therefore, the affected property owners/persons have been contacted directly to reduce the impact of this activity.	Continuation of threat verification and the provision of guidance to affected property owners/persons regarding alternative products and property handling, storage, and disposal of products
CB-NB-1.11a	City of Brantford	The COB has not incorporated location of IPZ in emergency response plans. Time constraint.	In the list of todo in 2018 but was deferred to 2019.
CB-CW-10.2	City of Brantford	Didn't implement a salt management plan because of time constraints.	In conjunction with the City's Works Department, the salt management plan will be amended as required.
CB-CW-13.3	City of Brantford	E&O will be dealt with in 2019	RMO will work with the City's Communication Dept. to develop an E&O program and determine the most cost-effective method of disposing of DNAPLs.
DC-GV-CW-3.1	County of Dufferin	Re-inspection will happen spring/summer of 2019	
DC-M-CW-3.3	County of Dufferin	Re-inspection will happen spring/summer of 2019	
DC-AEG-CW-5.2	County of Dufferin	Re-inspection will happen spring/summer of 2019	
DC-AEG-MC-13.6	County of Dufferin	Will be considered as part of the MCR process	
DC-AEG-CW-13.8	County of Dufferin	Will be considered as part of the MCR process	
RW-CW-20.1	Region of Waterloo	Stormwater incentives not a priority because not many eligible properties - no implementation date specified in the source protection plan	None

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #220: Land Use Planning

Select the municipality(ies) (including upper-, lower-, and single-tier) within the source protection region/area that are required to complete Official Plan and Zoning by-law conformity exercises for source protection and then select the status of those exercises in the table below for each municipality. Add as many rows as needed.

***NOTE** : Applies to every municipality affected by land use planning or Part IV type policies.

Municipality Name (select from drop down menu)	Status of Official Plan Conformity Exercise (select from drop down menu)	Status of Zoning By-law Conformity Exercise (select from drop down menu)
City of Brantford	In process	In process
City of Cambridge	Not started	Not started
City of Guelph	Completed but under appeal	Not started
City of Hamilton	Completed	Completed
City of Kitchener	Not started	In process
City of Waterloo	Not started	Not started
County of Brant	Not started	Not started
Dufferin, County of	In process	ZBL Conformity Exercise Not Applicable
Halton, Regional Municipality of	In process	Not started
Oxford, County of	In process	ZBL Conformity Exercise Not Applicable
Perth, County of	In process	ZBL Conformity Exercise Not Applicable
Town of Erin	Not started	Not started
Town of Milton	In process	Not started
Township of Amaranth	In process	In process
Township of Blandford-Blenheim	OP Conformity Exercise Not Applicable	In process
Township of Centre Wellington	OP Conformity Exercise Not Applicable	Completed
Township of East Garafraxa	In process	In process
Township of East Luther Grand Valley	Completed	Completed
Township of Guelph/Eramosa	Completed	Completed
Township of Mapleton	Completed	Completed
Township of Melancthon	Completed	Completed
Township of North Dumfries	Not started	Not started

Township of Puslinch	Completed	Completed but under appeal
Township of Southgate	In process	In process
Township of Wellesley	Not started	Not started
Township of Wellington North	Completed	Completed
Township of Wilmot	Not started	In process
Township of Woolwich	Not started	Not started
Waterloo, Regional Municipality of	Not started	ZBL Conformity Exercise Not Applicable
Wellington, County of	Completed	ZBL Conformity Exercise Not Applicable

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #270: Environmental monitoring of drinking water issues

If applicable to the source protection region/area, complete the table below.

Drinking Water System Number	Drinking Water System	Drinking Water Issue/Parameter	Has the Issue Contributing Area been delineated for this issue? (select Yes/No from drop down list)	Observations (select from drop down menu list)	Actions/Behavioural Changes Contributing to Change in Observations (NOTE : Only complete if "Increasing concentration/trend" or "Decreasing concentration/trend" is selected in previous column for the drinking water issue/parameter)
210000069	Mount Pleasant	Chloride	Yes	No longer monitoring as issue has improved	Removal of outdoor salt storage adjacent to wellfield
220002752	Bethel	Nitrate	Yes	No longer monitoring as issue has improved	
220002734	St. George	Nitrate	Yes	Decreasing concentration/trend	Some nearby farmers have altered their practices in accordance with Agricultural Best Management Practices
220002752	Paris	Nitrate	Yes	Not enough data to determine changes	
20000086	Elora/Fergus	Chloride	No	Increasing concentration/trend	The municipality continues to collect data for well E3 (designated issue) and other wells. Data to date indicates that the trend appears to be increasing for well E3. Further information is provided in EAR related to the monitoring policy for this issue
220001753	Dundalk	Sodium	No	No change in concentration	Sodium has exceeded the 20 mg/l historically at the Dundalk wells in the 20+ to 30+ ranges. We typically sample in March each year and have tested over the years in July with similar results and are concluding that it is occurring naturally. Chloride tes
0	Carter Wells	Nitrate	Yes	Not enough data to determine changes	Continuing to monitor
0	Emma Well	TCE	Yes	Not enough data to determine changes	Continuing to monitor
0	Membro Well	TCE	Yes	Not enough data to determine changes	Continuing to monitor
0	Smallfield Well	TCE	Yes	Not enough data to determine changes	Continuing to monitor
0	Guelph Drinking Water System	Sodium	No	Increasing concentration/trend	Observed at selected Drinking Water Wells
0	Guelph Drinking Water System	Chloride	No	Increasing concentration/trend	Observed at selected Drinking Water Wells
005-105	Lynden	Lead	No	Not enough data to determine changes	Drinking Water Advisory is in place since 2009, new pumping station is being designed, to be complete in 2020.
005-105	Lynden	Barium	No	Increasing concentration/trend	Quarterly Raw Water Sampling
NA	Baden	Nitrogen	Yes	No change in concentration	Concentrations in nearby monitoring wells are at or above the ODWQS for nitrate, especially during the growing season
260002538	Branchton Meadows	Chloride	Yes	No change in concentration	Concentrations have stabilized possibly due to recent reductions in local salt discharges and declining water production
220000166	Elgin Street	Chloride	Yes	Increasing concentration/trend	0
220000166	Elgin Street	Trichloroethylene	Yes	No change in concentration	Concentrations have stabilized for unknown reasons
220003092	Greenbrook	Chloride	Yes	Increasing concentration/trend	0
220000166	Hespeler	Chloride	Yes	No change in concentration	Concentrations have stabilized due to limiting water production from the most affected wells in the wellfield
220000166	Hespeler	Sodium	Yes	No change in concentration	Concentrations have stabilized due to limiting water production from the most affected wells in the wellfield
220000166	Hespeler	Nitrate	Yes	Decreasing concentration/trend	Concentrations have decreased due to limiting water production from the most affected wells in the wellfield
260002668	Mannheim West	Nitrate	Yes	No change in concentration	Concentrations have stabilized due to limiting water production from the most affected wells in the wellfield
220000166	Middleton Street	Chloride	Yes	Increasing concentration/trend	0
220000166	Middleton Street	Trichloroethylene	Yes	No change in concentration	Concentrations have stabilized for unknown reasons
220003092	Parkway	Chloride	Yes	Increasing concentration/trend	0

220003092	Parkway	Sodium	Yes	Increasing concentration/trend	0
220000166	Pinebush	Chloride	Yes	Increasing concentration/trend	0
220000166	Pinebush	Sodium	Yes	Increasing concentration/trend	0
220003092	Strange Street	Chloride	Yes	Increasing concentration/trend	0
220000157	William Street	Chloride	Yes	Increasing concentration/trend	0
220000157	William Street	Sodium	Yes	Increasing concentration/trend	0
220000157	William Street	Trichloroethylene	Yes	No change in concentration	Concentrations have stabilized for unknown reasons
260002707	Wilmot Centre	Nitrate	Yes	Decreasing concentration/trend	Concentrations are declining possibly due to Environmental Farm Plan implementation on nearby properties and/or increased water production

2018 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION

Name of Source Protection Region:

Questions #305: Enumerated threats - Progress made in addressing significant threats engaged in at time of source protection plan approval (i.e., enumerated as existing)

Complete the table of significant drinking water threats that were being engaged in (i.e., enumerated as 'existing' significant threats/threats) at the time of source protection plan approval by using the formula for the running tally of enumerated threats as explained below.

Lead source protection authorities will be maintaining a running tally of progress made in addressing significant threats that were on the ground before plans were approved. The running tally consists of the formula: A+B-C-D where:

- *A = Original estimate of significant drinking water threats engaged in/enumerated when source protection plan approved*
- *B = Additional significant drinking water threats identified after first source protection plan approved as a result of field verification (i.e., not part of original estimate of significant drinking water threat)*
- *C = Significant drinking water threats included in enumeration estimates at time of plan approval but subsequently determined through field verification that: (i) it was **not** actually engaged in at a particular location after all OR (ii) it was **no longer** engaged in (e.g., land may still have an agricultural operation but owner no longer applying pesticides for their own reasons)*
- *D = Significant drinking water threats addressed because policy is implemented* (* **Note** : Where multiple policy tools address any given threat sub-category, implemented means that actions associated with at least one policy tool have been completed/are in place.) Source protection authorities may use their local discretion in which policy tool they wish to reflect as being implemented.*

Threat ID	Prescribed Drinking Water Threat/Local threat/condition	A	B	C	D	No. of existing threats still to be addressed (A+B-C-D)
1	<input type="checkbox"/> The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> .	221	7	75	21	132
2	<input type="checkbox"/> The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	1699	81	287	678	815

3	<input type="checkbox"/> The application of agricultural source material to land.	424	15	58	126	255
4	<input type="checkbox"/> The storage of agricultural source material	391	14	77	125	203
5	<input type="checkbox"/> The management of agricultural source material	2	0	2	0	0
6	<input type="checkbox"/> The application of non-agricultural source material to land	36	0	7	20	9
7	<input type="checkbox"/> The handling and storage of non-agricultural source material	49	1	21	16	13
8	<input type="checkbox"/> The application of commercial fertilizer to land	253	7	26	87	147
9	<input type="checkbox"/> The handling and storage of commercial fertilizer	137	6	33	14	96
10	<input type="checkbox"/> The application of pesticide to land	542	11	46	53	454
11	<input type="checkbox"/> The handling and storage of pesticide	101	7	26	0	82
12	<input type="checkbox"/> The application of road salt	1667	380	86	28	1933
13	<input type="checkbox"/> The handling and storage of road salt	81	309	33	3	354
14	<input type="checkbox"/> The storage of snow	46	6	6	6	40

15	<input type="checkbox"/> The handling and storage of fuel	441	13	183	11	260
16	<input type="checkbox"/> The handling and storage of a dense non-aqueous phase liquid	848	23	244	19	608
17	<input type="checkbox"/> The handling and storage of an organic solvent	238	3	75	3	163
18	<input type="checkbox"/> The management of runoff that contains chemicals used in the de-icing of aircraft	0	0	0	0	0
19	<input type="checkbox"/> The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard O. Reg. 385/08, s. 3.	175	11	32	54	100
20	<input type="checkbox"/> Water taking from an aquifer without returning the water to the same aquifer or surface water body	44	0	0	44	0
21	<input type="checkbox"/> Reducing recharge of an aquifer	3	0	3	0	0
22	<input type="checkbox"/> Establishment and operation of a liquid hydrocarbon pipeline	2	0	0	0	2
	<input type="checkbox"/> Local threat #1 (if applicable, please specify) _____	0	0	0	0	0
	<input type="checkbox"/> Local threat #2 (if applicable, please specify) _____	0	0	0	0	0
	<input type="checkbox"/> Local condition #1 (if applicable, please specify) _____	47	0	0	0	47
	<input type="checkbox"/> Local condition #2 (if applicable, please specify) _____	0	0	0	0	0
TOTAL		7447	894	1320	1308	5713

Appendix C

Annual Reporting Letter to the SPA

April 4, 2019

Helen Jowett, Chair
400 Clyde Rd.
Cambridge, ON N1R 5W6

Dear Ms. Jowett:

The Grand River Source Protection Plan has been in effect since July 1, 2016 with the primary objective to protect current and future sources of drinking water from contamination and overuse.

In accordance with Ontario Regulation 287/07 s.52, Grand River Source Protection Authority (SPA) is required to submit source protection plan annual progress reports to the Ministry of the Environment, Conservation and Parks (MECP) by May 1, 2019. The reports provide valuable information about the implementation of the Grand River Source Protection Plan and the overall success of the program. The Grand River Annual Progress Report and Supplemental Form reflect implementation efforts from July 1, 2016 to December 31, 2018 (see attached).

On April 4, 2019 the Lake Erie Region Source Protection Committee passed the following resolution:

THAT in the opinion of the Lake Erie Region Source Protection Committee, implementation of the Grand River Source Protection Plan has progressed well and is on target towards achieving the plan objectives.

AND THAT the Lake Erie Region Source Protection Committee direct staff to finalize the draft Grand River Annual Progress Report and Supplemental Form and annual reporting objectives letter for submission to the Grand River Source Protection Authority for submission to the Ministry of the Environment, Conservation and Parks, along with any Source Protection Committee comments, in accordance with S.46 of the Clean Water Act, 2006 and any Director's instructions established under O. Reg. 287/07 S.52.

As such, this letter serves as a notice pursuant to the annual progress reporting administrative protocol, adopted by the Lake Erie Source Protection Region Management Committee (see attached management committee report 17-01-03), to submit the final Grand River Annual Progress Report and Supplemental Form to the Grand River Source Protection Authority.

Achievement of Source Protection Plan Objectives

It is the opinion of the Lake Erie Region Source Protection Committee that the objectives of the Grand River Source Protection Plan has been progressing well and is on target towards achieving the plan objectives in this reporting period (July 1, 2016 - December 31, 2018).

Rationale

7447 significant drinking water threats were identified in the Grand River Source Protection Area when the Plan took effect. Since implementation of the plan, 19% of threats have been removed through field verification or have been addressed because policy is implemented. The percentage of overall progress made is likely a reflection of progress for municipalities that have a large number of significant threats. For these municipalities, implementation may be phased over many years given the large number of properties and limited staff resources. Some municipalities have opted to prioritize properties and activities with the highest potential for impact.

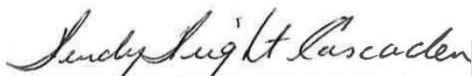
Additionally, 82% of applicable plan policies that address significant drinking water threats are implemented or in progress.

(Insert additional committee comments if applicable).

On behalf of the Lake Erie Region Source Protection Committee, the SPA is now tasked with considering the provincially-required annual progress reports and submitting them to the MECP, together with the committee's comments, and any comments the SPA wishes to make.

If you have any questions regarding this letter, or the Grand River Annual Progress Report and Supplemental Form, please contact Ilona Feldmann at 519-621-2763 ext. 2318 or ifeldmann@grandriver.ca.

Sincerely,



Wendy Wright-Cascaden
Chair, Lake Erie Region Source Protection Committee

cc:

Joe Farwell, Chief Administrative Officer, GRCA

LAKE ERIE REGION SOURCE PROTECTION COMMITTEE

REPORT NO. SPC-19-04-08

DATE: April 4, 2019

TO: Members of the Lake Erie Region Source Protection Committee

SUBJECT: **Revised Updated Grand River Assessment Report and Source Protection Plan for Grey County, City of Hamilton, and County of Brant**

RECOMMENDATION:

THAT the Lake Erie Region Source Protection Committee receives report SPC-19-04-08 – Revised Updated Grand River Assessment Report and Source Protection Plan for Grey County, City of Hamilton, and County of Brant – for information.

AND THAT the Lake Erie Region Source Protection Committee releases the Revised Updated Grand River Assessment Report and Source Protection Plan for Grey County, City of Hamilton, and County of Brant to the Grand River Source Protection Authority for submission to the Ministry of the Environment, Conservation and Parks along with the municipal council resolutions endorsing the changes, and the comments as presented in this report.

REPORT:

Work under s.34 of the *Clean Water Act, 2006* to update the Grand River Assessment Report and Source Protection Plan has been completed to satisfy changes in infrastructure by way of the addition of new municipal supply wells to existing municipal supply systems within Grey County, the City of Hamilton and County of Brant. As of July 1, 2018, in accordance with the updated Ontario Regulation 205/18, a new or changed municipal drinking water system, within a source protection area, requires a Minister approved Assessment Report and Source Protection Plan before drinking water can be distributed to the public.

Source protection technical work and policy updates, where necessary, have been completed and presented to the Lake Erie Region Source Protection Committee in previous reports. A formal public consultation period was held from February 12 to March 18, 2019. All comments received, along with additional proposed revisions, are presented in the Revised Updated Grand River Assessment Report and Source Protection Plan for Grey County, City of Hamilton, and County of Brant for consideration by the committee and release to the Grand River Source Protection Authority for submission to the Ministry of the Environment, Conservation and Parks (MECP).

Revised Updated Grand River Assessment Report and Source Protection Plan: Pre-consultation and Public Consultation Process

As part of the s.34 update process, municipalities and ministries affected by the proposed amendments were notified of the proposed changes and the opportunity for pre-consultation. Lake Erie Region received assessment report pre-consultation comments for consideration from the MECP and minor editorial comments from the County of Brant. One comment from a

member of the public was received during the public consultation period. See **Appendix A** for comments from the MECP and public member.

As per O. Reg. 287/07 section 50(2), persons with properties affected by the proposed changes to the wellhead protection areas in Dundalk (Township of Southgate), Lynden (City of Hamilton), and St. George, Mt. Pleasant, Airport, and Bethel (Brant County), were sent notification letters on February 4, 2019, highlighting the updates and public consultation process.

Section 34 of the CWA requires that source protection authorities obtain a municipal council resolution from each municipality affected by the amendments. Council resolutions in support of the amendments to the Revised Updated Grand River Assessment Report and Source Protection Plan were received for Grey, Hamilton and Brant on January 21, February 21, and February 26, 2019, respectively.

Revisions to the Grand River Assessment Report

The Revised Updated Grand River Assessment Report primarily includes technical updates to section 4 (Grey County), section 12 (Hamilton), and section 13 (County of Brant), including:

- The addition of new municipal supply wells to the Dundalk, Lynden, Mt. Pleasant, St. George and Airport Wellfields;
- Updates to WHPAs, vulnerability scoring and threats assessment for new and existing wells; and
- Removal of the nitrate and chloride Issue Contributing Areas from the Bethel Road and Mt. Pleasant Wellfields (SPC-18-06-07).

In addition to updated technical work, a few non-municipal sections have been updated:

- Section 1: Introduction;
- Section 3: Water Quality Threats Assessment Methodology. The water quality methods write-up has been removed from the municipal sections and combined into a new methodology section;
- Section 19: Conclusion; and
- Section 20 and 21: References and Map References

Additional revisions were also made throughout the assessment report for brevity and added clarity.

Revisions to the Grand River Source Protection Plan

The Revised Updated Source Protection Plan for Grey County, City of Hamilton, and County of Brant includes minor grammatical modifications, municipal specific policy updates, and updates which reflect Technical Rules changes.

The Revised Updated Grand River Assessment Report and Source Protection Plan are available in its entirety on the April 4, 2019 eScribe meeting site.

Submission Comments

The Source Protection Program under the *Clean Water Act, 2006* is designed with continuous improvements in mind and will require updates to the Source Protection Plan and Assessment Report when new information, changes to municipal supply infrastructure and advanced technologies become available. The submission of the Revised Updated Assessment Report and Source Protection Plan for the Grand River Source Protection Area marks the first s.34 update completed in accordance with the updated Ontario Regulation 205/18 which came into force on July 1, 2018 where a new or changed municipal drinking water system within a source protection area requires a Minister approved Assessment Report and Source Protection Plan before drinking water can be distributed to the public.

The following list includes outstanding work and comments staff recommend should be submitted to the MECP together with the revised updated assessment report and plan, pre-consultation comments, municipal resolutions and public consultation comments:

Outstanding Work

- Inclusion of updates to technical assessments to reflect changes following provincial program review and updates to the technical rules, once available. This work will be considered as part of the s.36 workplan development.
- Inclusion of Great Lakes considerations to better understand impacts and effects on Lake Erie drinking water intakes. This work will be considered as part of the s.36 workplan development.
- Inclusion of climate change considerations to better understand impacts and effects on sources of drinking water. This work will be considered as part of the s.36 workplan development.

Comments

- Need for long-term, multi-year sustainable provincial funding for conservation authorities for continued program oversight and support to ensure successful implementation of the Source Protection Plans and to meet the mandatory legal responsibilities of conservation authorities on an ongoing basis.
- Need for simple and easy to administer future program processes, e.g., annual progress reporting and plan update processes, to not burden conservation authorities with complex and resource intensive processes and reporting requirements.
- Need for provincial funding for maintenance of scientific technical tools, e.g., surface water and groundwater models, including Tier 3 models.

Timeline for Grey/Hamilton/Brant Source Protection Plan Update

Table 1 presents the key milestones for completing the necessary technical and policy work, undertaking the necessary formal public consultation, and submitting the Revised Updated Grand River Source Protection Plan for Grey County, City of Hamilton, and County of Brant to the MECP. The next step in the update process is for the committee to consider the revised updated plan, assessment report and consultation comments and release the documents to the

Grand River Source Protection Authority for submission to the MECP.

Table 1: Key Milestones for the Revised Updated Grand River Assessment Report and Source Protection Plan for Grey County, City of Hamilton, and County of Brant

Activity	Date	Complete
Completion of technical study to update wellhead protection areas (WHPAs) for Dundalk Wellfield (SPC-18-04-06)	April 5, 2018	✓
Completion of technical studies to update WHPAs for Lynden and St. George Wellfields (SPC-18-06-05 and SPC-18-06-06)	June 21, 2018	✓
Completion of technical studies to update WHPAs for Bethel Road and Mt. Pleasant Wellfields (SPC-18-10-06 and SPC-18-10-07)	October 4, 2018	✓
Municipal and Ministry pre-consultation on draft updates made to the Grand River Source Protection Plan for Grey County, City of Hamilton, and County of Brant	December 10, 2018 – February 5, 2019	✓
SPC receives Draft Updated Grand River Assessment Report and Source Protection Plan for Grey County, City of Hamilton, and County of Brant for consideration and release for public consultation	February 7, 2019	✓
Formal public consultation for Updated Grand River Assessment Report and Source Protection Plan for Grey County, City of Hamilton, and County of Brant	February 12 –March 18, 2019	✓
County of Brant public open house 6p.m. – 8p.m. Brant Sports Complex Lafarge Hall, Paris, ON	February 21, 2019	✓
SPC receives Revised Updated Grand River Assessment Report and Source Protection Plan for Grey County, City of Hamilton, and County of Brant and public comments for consideration; SPC releases the document to the Grand River Source Protection Authority	April 4, 2019	
Grand River Source Protection Authority receives Revised Updated Grand River Assessment Report and Source Protection Plan for Grey County, City of Hamilton, and County of Brant for submission to the MECP.	April 26, 2019	

Prepared by:



Emily Hayman, M.Sc., P.Geo.
Source Water Hydrogeologist

Approved by:



Martin Keller, M. Sc.
Source Protection Program Manager

Appendix A

Pre-consultation and Public Consultation Comments

Draft Updated Grey/Hamilton/Brant Assessment Report – MECP and Public Comments					
#	Comment Source	Comment Period	AR Section	Comment	How Comment was Addressed
1	MECP	pre-consultation	general	Make reference in the Assessment Report that the acronym MOECC refers to the Ministry of Environment Conservation and Parks (MECP) as the same agency/organisation, or replace MOECC with MECP	Used MOECC reference for documents that were published under that name. All updated documents referenced to MECP
2	MECP	pre-consultation	general	The uncertainty level (low or high) has been identified in all sections of the assessment report. Please ensure there is a brief description of the general methodology used to determine the uncertainty level, both for groundwater and surface water	Added text to Chapter 3 (Methods) to incorporate what an uncertainty assessment considers
3	MECP	pre-consultation	Section 3, Part 2	Please revise this section to specify that water quality policies can also be applied in Highly Vulnerable Aquifers	Section added to Chapter 3 on HVA (including Managed Lands, Livestock Density and Impervious Surfaces)
4	MECP	pre-consultation	Section 3, Part 2	(page 6-8) – suggest that the section reference that intake protection zones can be extended to capture surface water transport pathways. Please note that definition of these pathways have been provided in the Technical Rules (March 2017).	Additional text added to address surface water transport pathways
5	MECP	pre-consultation	Section 3, Part 2	(page 7) – the description for IPZ-3 delineation in the section are for Type A and B intakes. Please consider revising this section to indicate that IPZ-3s are delineated to capture all water courses / bodies that contribute water to the sources, or extending the description to capture how IPZ-3 are delineated for Type C and D intakes. These types of intakes are also found in the Grand River Source Protection Region and would align with the description provided for Table 3-5.	Text added to IPZ-3 definition

Draft Updated Grey/Hamilton/Brant Assessment Report – MECP and Public Comments					
#	Comment Source	Comment Period	AR Section	Comment	How Comment was Addressed
6	MECP	pre-consultation	Section 3, Part 2	Threats from Conditions (page 14) – please update this section to align with updated Technical Rule 126 (March 2017)	Removed old bulleted text and added text from Technical Rules (March 2017)
7	MECP	pre-consultation	Section 3, Part 2	Threats from Issues (page 14) – Currently this section reads as though issues can only be identified when concentrations exceed the Maximum Acceptable Concentration (MAC). Issues can be also identified if there are increasing trends (e.g. projected concentrations that exceed the Ontario Drinking Water Standards), therefore please revise this section for technical accuracy. You may also want to refer to the previous language used in the 2015 approved assessment report (Chapter 14 page 45).	Text added "or a trend of increasing concentrations"
8	MECP	pre-consultation	Section 3, Part 2	Assessing Threats from Activities (page 15): 1. There are two hyperlinks (http://swpip.ca) in this section which directs the reader to Conservation Ontario's Threats Tool. It also would be helpful to refer the reader to the Ministry's Table of Drinking Water Threats (TDWT) for accuracy. 2. The second use of the hyperlink indicates that the Table of Circumstances provides hazard ratings. Hazard ratings values are embedded in the calculations used to determine the risk level of threat activities listed in these tables. Neither the TDWTs, nor the Threats Tool, present the hazard scorings; the TDWTs provide the vulnerability scores of the areas where a threat could be Significant/Moderate/Low, while the Threats Tool provides risk levels. Please revise this section for accuracy. 3. Threat activities or conditions can be identified in	1. added a statement and link to Ministry's TDWT 2. & 3. revised as recommended

Draft Updated Grey/Hamilton/Brant Assessment Report – MECP and Public Comments					
#	Comment Source	Comment Period	AR Section	Comment	How Comment was Addressed
				an IPZ-3. Please include “IPZ-3” to the list of zones the risk assessment considers for both the nature of the activity and the vulnerability of the affected area.	
9	MECP	pre-consultation	Section 4	Page 4-10 – The text for Table 4-7 provides a list of threat levels possible for the Dundalk well supply. Pipelines are listed as a local threat, but are now a prescribed drinking water threat under the Clean Water Act. Please revise for accuracy.	Revised as suggested
10	MECP	pre-consultation	Section 4	Table 4-7 – for accuracy, we suggest removing the cell of WHPA C-D within the pathogen section as these zones are not applicable to pathogen threats.	Cell deleted
11	MECP	pre-consultation	Section 4	Table 4-8 – for the Dundalk well supply, the vulnerability score for the WHPA-B is 6. As a result, there are no sewage threats that are a significant drinking water threat for that vulnerability score and zone. We suggest you remove WHPA-B from the table for accuracy.	Threats updated - removed threats in WHPA-B
12	MECP	pre-consultation	Section 12	Livestock Density (page 12-14) – please clarify if the livestock which permanently dwell in barns were counted as generating Nutrient Units, from the windshield survey which determined that livestock density for grazing and pasture land was not applicable in the analysis for the Lynden wellhead protection area.	Updated text to reflect Earthfx, May 2018 technical report. Old text removed as it was from the previous technical study
13	MECP	pre-consultation	Section 12	Table 12-6 – for accuracy, we suggest removing the cell of WHPA C-D within the pathogen section as these zones are not applicable to pathogen threats.	Cell deleted
14	MECP	pre-consultation	Section 13	Tables 13-5, 13-6, 13-7, 13-8, and 13-9 – for accuracy, we suggest removing the cell of WHPA C-D within the pathogen section as these zones are not applicable to pathogen threats.	Cells deleted in all tables mentioned

Draft Updated Grey/Hamilton/Brant Assessment Report – MECP and Public Comments					
#	Comment Source	Comment Period	AR Section	Comment	How Comment was Addressed
15	MECP	pre-consultation	Section 13	Road Salt – Impervious Surfaces (page D-13-23). Three approaches for road salt were outlined in Chapter 3; however, it is not clear which approach was used in the County of Brant. Please revise for clarity.	Updated text to state which method was used
16	MECP	pre-consultation	Section 13	Condition Evaluation (page D-13-30) - the new edits are missing the name of the vulnerable area where the two sites associated with contamination are located (WHPA-B). It is a technical requirement to have the vulnerable area name and vulnerability score used in the risk assessment. Please consider using the previous 2015 assessment report version which contained this information.	Replaced new text with text from 2015 approved AR
17	MECP	pre-consultation	Section 13	Chloride (page 33) – the aesthetic objective for chloride is 250mg/L (not 150mg/L as indicated). Please revise for accuracy and confirm that the conclusions for chloride remain the same.	Typo revised, minor changes to text - conclusions not necessary to revise
18	Member of the Public	public consultation	Section 13	RE: Updates to the County of Brant I am writing you about a letter sent to Barbara Malcolm 283 Mclean school road St. George. I am the tenant farmer who as pastured cattle for years on that pasture farm. My cattle only run from May until end of October on the land as they have forever as the topography of the land won't allow cultivation .We do not store any manure and no one is on the property during the winter freeze up or spring thaw only thousands of geese and ducks incrementing in the ponds. The geese, ducks and me have been here long before any protection plan we live in harmony with mother earth .Thank you for your concern.	GRCA staff provided an email response and recommended that the property owner/tenant contact the County of Brant RMO to verify if any threat activities are occurring on the property.

LAKE ERIE REGION SOURCE PROTECTION COMMITTEE

REPORT NO. SPC-19-04-09

DATE: April 4, 2019

TO: Members of the Lake Erie Region Source Protection Committee

SUBJECT: Updated “Bundled” Grand River Assessment Report and Source Protection Plan

RECOMMENDATION:

THAT the Lake Erie Region Source Protection Committee receives report SPC-19-04-09 – Updated “Bundled” Grand River Assessment Report and Source Protection Plan – for information.

AND THAT the Lake Erie Region Source Protection Committee releases the Updated “Bundled” Grand River Assessment Report and Source Protection Plan to the Grand River Source Protection Authority for public consultation starting on April 8, 2019 to May 21, 2019 (44 days).

REPORT:

The Grand River Source Protection Plan was approved by the Ontario Ministry of the Environment, Conservation and Parks in November, 2015. Since then, updates have been proposed that affect Dufferin County (Township of Melancthon and Township of Amaranth), Oxford County (Community of Bright), the Region of Waterloo, Perth County (Township of Perth East), the County of Wellington (Township of Puslinch and Town of Erin) and the City of Brantford.

The draft updated “Bundled” Grand River Assessment Report and Source Protection Plan pre-consultation period ended on March 25, 2019. Comments received will be considered for incorporation into the draft updated plan. A formal public consultation period begins on April 8, 2019 and ends on May 21, 2019. Comments received during the public consultation period will be reviewed and the plan updated where appropriate. The revised draft updated Grand River Source Protection Plan will be brought to the committee on June 20, 2019, and is expected to be submitted to the MECP by the Grand River Source Protection Authority at its next meeting.

Revisions to the “Bundled” Grand River Assessment Report

The Updated “Bundled” Grand River Assessment Report primarily includes technical updates to municipal and non-municipal sections. **Table 1** below illustrates the high level changes within each section and references the SPC report which contains more detailed information.

Table 1: Grand River Assessment Report Amendments for the Draft “Bundled” Grand River Assessment Report Update

Assessment Report Section	Description of Amendments	SPC Report Reference
Section 1 Introduction	Executive Summary: Updated to reflect changes in content referenced in the body of the assessment report	SPC-18-10-09
Section 2 Watershed Characterization	Major revisions to most subsections	SPC-18-10-09
Section 3 Water Quality Methods	Major revisions pertaining to methods used to map WHPAs and enumerate and classify quality-related threats to municipal supplies	SPC-18-12-06
Section 5 County of Dufferin	Minor editorial revisions to the Waldemar and Marsville Well Supplies. Revisions related to new supply well (PW8) for Shelburne Well Supply. Revision to threat numbers for Orangeville Well Supply.	SPC-18-06-13
Section 7 City of Guelph	Guelph Waterworks revisions including the addition of WHPA-A surrounding Glen Collector and an update to Drinking Water Quality Issues Evaluation	SPC-19-02-03
Section 8 Region of Waterloo	Numerical Tier 3 groundwater flow models used to update WHPAs, vulnerability scoring, threats and issue assessment for Cambridge, Kitchener, Waterloo and rural Wellfields. Six replacement wells drilled at some supply sites where existing well infrastructure deteriorated enough to warrant replacement. Three wells constructed for operational redundancy at existing water supply systems.	SPC-19-02-03
Section 9 Region of Halton	Acton Wellfield updates due to the addition of 4 th Line Well B as redundancy and updates to water quality issues evaluation.	SPC-18-12-07
Section 10 Perth County	Milverton Water Supply underwent minor editorial updates.	SPC-19-02-03
Section 11 County of Oxford	Bright Water System underwent a technical update using the Whiteman’s Tier 3 model to update WHPAs, vulnerability scoring, threats and issue assessment. Drumbo-Princeton and Plattsville Water Supply Systems underwent minor editorial changes.	SPC-18-10-08
Section 14 City of Brantford	Brantford Water Treatment Plant had changes to reflect the municipal boundary change north of the City and minor editorial changes.	SPC-19-02-03
Section 16 Haldimand County	Dunnville Water Treatment Plant underwent minor editorial changes.	SPC-19-02-03
Section 17 Water Budget Framework and Methodology	New section detailing: - Tier 2 Framework and Tier 3 Framework - Tier 3 Water Budget Methodology	SPC-18-12-07

Section 18 Tier 2 Water Budget Results	Out of date and no longer relevant content was removed pertaining to Tier 2 methodology and results	SPC-18-10-09
Section 19 GGET Tier 3 Water Budget and Risk Assessment	New section detailing: - Tier 3 Water Budget and Risk Assessment completed for the municipal drinking water systems of the City of Guelph and the Township of Guelph/Eramosa, including the delineation of WHPA-Qs	SPC-18-12-07
Section 20 Waterloo Tier 3 Water Budget and Risk Assessment	New section detailing: - Tier 3 Water Budget and Risk Assessment completed for the municipal drinking water systems in the Region of Waterloo, including the delineation of WHPA-Qs	SPC-18-06-11
Section 21 Whitemans Creek Tier 3 Water Budget and Risk Assessment	New section detailing: - Tier 3 Water Budget and Risk Assessment completed for the municipal drinking water systems of the Whitemans Creek Subwatershed, including the delineation of WHPA-Qs	SPC-18-12-07
Section 22 Orangeville and Amaranth Tier 3 Water Budget and Risk Assessment	Updates include editorial changes to improve consistency and readability.	SPC-19-02-03
Section 23 Halton Hills Tier 3 Water Budget and Risk Assessment	New section detailing: - Tier 3 Water Budget and Risk Assessment completed for the municipal drinking water systems in the communities of Acton and Georgetown, including the delineation of a WHPA-Q	SPC-19-02-03
Section 24 State or Climate Change Research in Lake Erie Region	Minor update to subsection 24.3 Effect of Projected Climate Changes on Assessment Report Conclusions	SPC-19-02-03
Section 26 Conclusions	Updates to reflect changes to municipal systems within the assessment report	SPC-19-02-03
Section 27 References	Updated to reflect changes in content referenced in the body of the assessment report	SPC-19-02-03
Section 28 Map References	Updated to reflect changes in maps referenced in the body of the assessment report	SPC-19-04-04

Revisions to the “Bundled” Grand River Source Protection Plan

The Updated “Bundled” Grand River Source Protection Plan policy amendments focus on revising technical names or terms, timing of implementation, changing pipelines from a local threat to a prescribed threat, research opportunities for recharge reduction, and new and revised policies for several activities in the Region of Waterloo. Source Protection Plan municipal sections were brought to the SPC alongside the assessment report sections.

The Updated “Bundled Grand River Assessment Report and Source Protection Plan are available in its entirety on the April 4, 2019 eScribe meeting site.

Updated “Bundled” Grand River Assessment Report and Source Protection Plan: Pre-consultation

As part of the s.34 update process, municipalities and ministries affected by the proposed amendments were notified of the proposed changes and the opportunity for pre-consultation. The draft Updated Grand River Source Protection Plan pre-consultation period ended on March 25, 2019. Lake Erie Region received source protection plan pre-consultation comments for consideration from the Ministry of the Environment, Conservation and Parks (MECP). See **Appendix A** for comments from the MECP. Comments received will be considered for incorporation into the revised updated plan.

Updated “Bundled” Grand River Assessment Report and Source Protection Plan: Public Consultation Process

A formal public consultation period will begin on April 8 and end on May 21, 2019. During this time, the proposed amendments will be published on [Lake Erie Source Protection Region's website](#). A printed copy of the draft updated plan will also be available for review at the Grand River Conservation Authority (400 Clyde Road, Cambridge) or at each of the following locations:

- Township of Melancthon Municipal Office (157101 Highway 10, Melancthon)
- Township of Amaranth Municipal Office (374028 6th line, Amaranth)
- Oxford County Administration Building (21 Reeve St., Woodstock)
- Region of Waterloo Administrative Headquarters (150 Frederick St., Kitchener)
- Township of Perth East Municipal Office (25 Mill St. East, Milverton)
- Puslinch Township Office (7404 Wellington Rd. 34, Puslinch)
- Town of Erin Municipal Office (5684 Trafalgar Rd., Hillsburgh)
- Continuous Improvement Desk, Brantford City Hall (100 Wellington Square, Brantford)

Council Resolutions

Section 34 of the CWA requires that source protection authorities obtain a municipal council resolution from each municipality affected by the amendments. Council resolutions in support of the amendments to the draft Updated “Bundled” Grand River Assessment Report and Source Protection Plan were received for Amaranth, Dufferin County and East Garafraxa. Forthcoming council resolutions include Oxford County, Blandford Blenheim, Melancthon, Perth County, Perth East, Brantford, and the Region of Waterloo, which are anticipated to be received in early April 2019.

Public Letter Notification

As per O. Reg. 287/07 section 50(2), persons with properties affected by the proposed changes to the wellhead protection areas in the Grand River watershed require notification letters, highlighting the updates and public consultation process. Property owner notification letters have been sent to persons affected in Puslinch (28 letters), Brantford (7 letters), and the Region of Waterloo (3,300 letters). Property owner notification letters to persons affected in Oxford County (22 letters) and Melancthon (2 letters) will be sent early April 2019.

Open House

Public meetings are scheduled for the residents of the Region of Waterloo and Oxford County. The meetings focus on technical study results for updated municipal water supply systems and changes to policy within the Region of Waterloo or Oxford County and part of the Updated “bundled” Grand River Assessment Report and Source Protection Plan. The details of the three public meetings are detailed below:

- Waterloo in the Region of Waterloo, Tuesday, March 26, 2019 from 6 p.m. to 8 p.m. at the Waterloo Region Emergency Training and Research Centre (1001 Erb’s Road, Waterloo, ON)
- Cambridge in the Region of Waterloo, Wednesday, March 27, 2019 from 6 p.m. to 8 p.m. at the Grand River Conservation Authority Auditorium (400 Clyde Road, Cambridge, ON)
- Bright in Oxford County on Monday, April 15, 2019 from 6 p.m. to 8 p.m. at the Plattsville Lions Hall (68 Mill St. E, Plattsville)

Timeline for “Bundled” Grand River Source Protection Plan Update

Table 2 presents the key milestones for completing the necessary technical and policy work, undertaking the necessary formal pre-consultation, public consultation, and submitting the Updated “Bundled” Grand River Assessment Report and Source Protection Plan to the MECP.

Table 2: Key Milestones for the Updated “Bundled” Grand River Assessment Report and Source Protection Plan

Activity	Date	Complete
Completion of technical study to update wellhead protection areas (WHPAs) for Shelburne Wellfield (SPC-15-02-03)	February 5, 2015	✓
Completion of technical studies for Region of Waterloo Tier 3 Risk Assessment and GGET Tier 3 Risk Assessment (SPC-17-04-03 and SPC-17-04-04)	April 6, 2017	✓
Completion of technical studies to update WHPAs for Bright (Oxford) wellfield and Region of Waterloo wellfields (SPC-18-06-08 and SPC-18-06-09). Completion of technical work for Whitemans Tier 3 Risk Assessment (SPC-18-06-10)	June 21, 2018	✓

Municipal and Ministry pre-consultation on draft updates made to the Grand River Assessment Report and Source Protection Plan	February 11 – March 25, 2019	✓
Residential letter notification for properties affected by changes to the Draft Updated Grand River Assessment Report and Source Protection Plan	March/April 2019	✓
Council resolutions in support of the amendments to the Draft Updated Grand River Assessment Report and Source Protection Plan	March/April 2019	
SPC receives Draft Updated Grand River Assessment Report and Source Protection Plan for consideration and release for public consultation	April 4, 2019	✓
Region of Waterloo Public Open House 6p.m. – 8p.m. Waterloo Region Emergency Training and Research Centre Waterloo, ON	March 26, 2019	✓
Region of Waterloo Public Open House 6p.m. – 8p.m. Grand River Conservation Authority Cambridge, ON	March 27, 2019	✓
Formal public consultation for Draft Updated Grand River Assessment Report and Source Protection Plan	April 8 –May 21, 2019	
Oxford County Public Open House 6p.m. – 8p.m. Plattsville Lions Hall Plattsville, ON	April 15, 2019	
SPC receives Draft Updated Grand River Assessment Report and Source Protection Plan and public comments for consideration; SPC releases the document to the Grand River Source Protection Authority	June 20, 2019	
Grand River Source Protection Authority receives Revised Updated Grand River Assessment Report and Source Protection Plan to for submission to the MECP.	July 2019	

Next Steps

Following the public consultation period, the Lake Erie Region Source Protection Committee will consider any comments received at their meeting on June 20, 2019 and direct staff to revise the Draft Updated Grand River Source Protection Plan, as necessary. The revised Draft Updated Plan will then be released to the Grand River Source Protection Authority for submission to the MECP.

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Source Water Hydrogeologist

Approved by:



Martin Keller, M. Sc.
Source Protection Program Manager

Appendix A
Pre-consultation Comments

Pre-consultation Comments on the Draft Updated “Bundled” Grand River Source Protection Plan

Draft Updated “Bundled” Grand River Source Protection Plan – MECP Comments				
#	Comment Source	Comment Period	SPP Section	Comment
1	MECP	pre-consultation	general	In the source protection plan, Ministry of Environment (MOE) has been updated to reflect our new name, Ministry of Environment, Conservation and Parks (MECP). Please make a note in your plan that MOE refers to MECP or ensure all of the previous acronyms are corrected as a few instances of the previous Ministry name remain (e.g. RW-MC-11.1).
2	MECP	pre-consultation	general	Please verify all revisions to vulnerability scores with pathogen and chemical threat tables and ensure a statement in the plan (and assessment report) refers to the 2017 version of the Technical Rules being used for these amendments.
3	MECP	pre-consultation	general	Just as a reminder, an amendment to the source protection plan requires an update the ‘Summary of Consultation’ section to reflect the various stages of consultation carried out for the amendment.
4	MECP	pre-consultation	Halton Region	Policy HR-NB-14.1 has been revised to change pipelines from a local threat to a prescribed drinking water threat. However, the title of the policy still includes the title ‘local threat’. Please revise for consistency with the other pipeline policies.
5	MECP	pre-consultation	County of Brant	Policy CB-MC-7.1 and CB-MC-7.2 for the application of commercial fertilizer, have been revised to only include handling and storage of commercial fertilizer. The plan previously indicated that the application of fertilizer did not currently apply due to the percentages of managed land and livestock density. Please ensure this information is reference in the Explanatory Document or elsewhere in the source protection plan to ensure clarity on why an application of commercial fertilizer policy is not currently required for this area.

Pre-consultation Comments on the Draft Updated “Bundled” Grand River Source Protection Plan

Draft Updated “Bundled” Grand River Source Protection Plan – MECP Comments				
#	Comment Source	Comment Period	SPP Section	Comment
6	MECP	pre-consultation	Region of Waterloo	<p><i>The Establishment, Operation or Maintenance of a Waste Disposal Site</i></p> <ul style="list-style-type: none"> • Policy RW-MC-2 is a prescribed instrument policy for a number of waste activities including storage of polychlorinated biphenyls (PCBs), waste at landfills or transfer stations, hauled sewage, hazardous and non-hazardous waste. The policy has revisions to sections on where the policy applies. The vulnerability scores where hauled sewage is a significant drinking water threat (SDWT) is different than the other waste disposal sites listed. <ul style="list-style-type: none"> ○ Hauled sewage is a SDWT in surface water zones 8 and greater. The remaining waste disposal activities are a SDWT in surface water zones 9-10. ○ For land disposal of hauled sewage, the vulnerable zones where the activity is significant for pathogens are 8 - 10, whereas for chemicals the scores are 9 – 10. • Please revise the policy to ensure the correct vulnerability score applies to the applicable waste activity for technical accuracy. • Similar revisions to vulnerability scores have been to the Part IV policies RW-CW-3 and RW-CW-4 which also need to be revised for accuracy.
7	MECP	pre-consultation	Region of Waterloo	<p><i>Application and Storage of Agricultural Source Material</i></p> <ul style="list-style-type: none"> • Policy RW-CW-21.1 is a prescribed instrument policy for the existing and future storage of ASM, which requires MECP and Ministry of Agriculture, Food and Rural Affairs (OMAFRA) to prohibit these activities in certain vulnerable areas. Agricultural Source Material is regulated through <i>Nutrient Management Act</i> instruments (i.e. Nutrient Management Plan and Nutrient Management Strategy) and MECP has

Pre-consultation Comments on the Draft Updated “Bundled” Grand River Source Protection Plan

Draft Updated “Bundled” Grand River Source Protection Plan – MECP Comments				
#	Comment Source	Comment Period	SPP Section	Comment
				no role in issuing these documents. Please revise the policy to remove MECP as an implementing body.
8	MECP	pre-consultation	Region of Waterloo	<p><i>Handling, Application and Storage of Non-Agricultural Source Material</i></p> <ul style="list-style-type: none"> • A number of the current policies related to the application and/or storage non-agricultural source material (NASM) include both MECP and OMAFRA. We believe there may be a misunderstanding of previous information provided to the source protection authority which may warrant a different approach than is currently outlined in the policies. • NASM applied on-farm would fall under a NASM plan and is implemented by OMAFRA. • NASM applied off-farm is considered process organic waste (POW), often referred to as biosolids, and requires an Environmental Compliance Approval (ECA) for waste under the <i>Environmental Protection Act</i>, issued by MECP. • For the storage of NASM, under O. Reg. 347 of the <i>Environmental Protection Act</i>, a waste disposal site is exempt from Part V of the Act and from this Regulation if, it is a <u>NASM plan area</u> (i.e. on-farm). Therefore, if it is <u>not</u> a “NASM Plan Area”, the site is considered a waste disposal site and requires an ECA. • As part of the identification of land application of nutrients (i.e. NASM, ASM and fertilizers), SPPB asked source protection authorities to count any application of <i>off-farm</i> nutrients as a threat, summed up as <u>managed land</u>. During the development of the assessment reports and source protection plans, some source protection authorities also wanted to have policies to capture this type of land application and therefore included policies for <u>off-farm</u> land application of NASM as POW/biosolids, which noted above, requires an ECA.

Pre-consultation Comments on the Draft Updated “Bundled” Grand River Source Protection Plan

Draft Updated “Bundled” Grand River Source Protection Plan – MECP Comments				
#	Comment Source	Comment Period	SPP Section	Comment
				<ul style="list-style-type: none"> • Committees typically have a complimentary policy for <u>on-farm</u> land application of NASM (i.e. NASM plan) directed to OMAFRA, and an <u>off-farm</u> policy for NASM as POW/biosolids which would require an ECA Approval. • We acknowledge that the Table of Drinking Water Threats (chemicals) currently include circumstances for NASM application which tends to be linked with agricultural lands (i.e., livestock density must be greater than 1.0 nutrient unit per acre when percent managed lands is 40% or greater, in IPZ scoring 9 for application of NASM to be a significant threat), and is therefore disconnected from policy language and approaches to managing POW/biosolids <u>off-farm</u>. Circumstances 1968 and 1971 in the pathogen table identify significant threat circumstances that more readily apply to NASM storage and application both on- <u>and</u> off-farms in IPZs. As part of our ongoing work to review the Director Technical Rules and Tables of Drinking Water Threats, we are considering amendments to align the threat circumstances with how these materials are classified and regulated on agricultural versus non-agricultural land. • We also understand that the supplemental information provided through annual reporting in April 2018 did not explicitly mention the above. • Please consider the above information in regards to the following comments: <ul style="list-style-type: none"> ○ Policy RW-CW-26.1 requires MECP and OMAFRA to prohibit NASM storage and application through NMA instruments (i.e. NASM Plans). MECP is not the correct implementing body for this policy as we have no role in issuing NASM Plans. ○ Policy RW-CW-27, a prescribed instrument policy directing

Pre-consultation Comments on the Draft Updated “Bundled” Grand River Source Protection Plan

Draft Updated “Bundled” Grand River Source Protection Plan – MECP Comments				
#	Comment Source	Comment Period	SPP Section	Comment
				<p>MECP to manage NASM through ECAs, has been struck out from the pre-consultation draft. The policy appears to be replaced by RW-CW-26.1 which is a Risk Management Plan (RMP) policy for when NASM Plans do not apply. NASM applied as POW/biosolids require an Environmental Compliance Approval; if the Source Protection Authority is confident that all biosolids are applied <u>on-farm</u> then there are no concerns in removing this policy. A statement indicating why this policy is not required would also need to be included in the Explanatory Document. However, if the SPA is unsure, or there are biosolids being applied <u>off-farm</u> (i.e. requires an ECA) then removing policy RW-CW-27 would leave a policy gap. Please consider if policy RW-CW-27 is still required.</p> <ul style="list-style-type: none"> ○ Further to the above comment, consider if Policy RW-CW-26.1 (RMP for when NASM Plans so not apply) is still required if RW-CW-27 is reinstated as both policies apply where the application of NASM does not require a NASM Plan. ○ The authority may also wish to consider including the phrase “off-farm application and/or storage of NASM as processed organic waste (i.e. biosolids)” to add further clarity to the applicable policies.
9	MECP	pre-consultation		<p><i>Application and Storage of Salt</i></p> <ul style="list-style-type: none"> • Policy RW-CW-37 is an incentive and education and outreach policy. Part (b) has an incentive program for the storage of salt in wellhead protection area B where the vulnerability score is 10, while part (a) has an education program for the storage of salt in wellhead protection areas A and B. It appears that WHPA A was removed from the storage of salt

Pre-consultation Comments on the Draft Updated “Bundled” Grand River Source Protection Plan

Draft Updated “Bundled” Grand River Source Protection Plan – MECP Comments				
#	Comment Source	Comment Period	SPP Section	Comment
				section. The Ministry is unsure if this was an unintended typo or policy gap and wanted to bring it to the SPA's attention.