



SAUGEEN, GREY SAUBLE, NORTHERN BRUCE PENINSULA SOURCE PROTECTION COMMITTEE MEETING #82

A G E N D A

Friday, March 27, 2020

1:30 p.m. – 4:00 p.m.

Teleconference Call

CALL TO ORDER

1. **Adoption of Agenda**
2. **Declaration of Pecuniary or Conflict of Interest**
3. **Adoption of Minutes of October 25, 2019 meeting**
4. **Matters Arising from the Minutes**
 - None
5. **Correspondence**
 - Letter from Lake Erie Source Protection Region dated January 17, 2020 respecting winter maintenance chemicals
 - Letter from Ministry of the Environment, Conservation and Parks (MECP) dated January 21, 2020 respecting Section 36 Workplan approval
 - Letter from MECP dated February 18, 2020 respecting *Clean Water Act* review
6. **Reports**
 - Administration Report – **Report 6a attached**
 - Communications Report – **Report 6b attached**
 - Section 36 Workplan Update – **Report 6c attached**
7. **New Business**
 - Annual Progress Report – **Report 7a attached**
 - Source Protection Plan Amendments – **Report 7b attached**
8. **Other Business**
9. **Next Meeting and Adjournment**



SOURCE PROTECTION COMMITTEE

MINUTES – MEETING #81

MEETING: SOURCE PROTECTION COMMITTEE

DATE: FRIDAY, OCTOBER 25, 2019

TIME: 1:00 P.M.

LOCATION: GREY SAUBLE CONSERVATION AUTHORITY

CALL TO ORDER

Chair called the meeting to order at 1:00 p.m.

In Attendance: Chair, Bill Twaddle
Bruce Davidson, Stan Eby, Robert Emerson, John Fruin, Dennis Kefalas,
Angela Newman, Les Nichols, Gord Timmerman, Mitch Twolan, Jim
Uram

Others Present: Olga Yudina, Ex-officio, Ministry of the Environment, Conservation and
Parks (MECP)
Angela Newman, Ex-officio member, Grey-Bruce Health Unit
Carl Seider, Project Manager, Drinking Water Source Protection (DWSP)
Nancy Guest, Recording Secretary, DWSP

Also in Attendance: Tim Lanthier, Interim General Manager, Grey Sauble Conservation
Karen Gillan, Program Supervisor/Communications Planner, DWSP

Regrets: Dick Hibma, Tara Saab

The Chair introduced and welcomed Tim Lanthier, the Interim General Manager for Grey Sauble Conservation and Olga Yudina, Liaison Officer from MECP.

1. Adoption of Agenda

Motion No.
SPC-19-292

Moved by Bruce Davidson
Seconded by Les Nichols

THAT the Agenda be adopted as distributed.

Carried

2. Disclosure of Pecuniary or Conflict of Interest

Source Protection Committee (SPC) members were reminded to disclose any pecuniary interest that may arise during the course of the meeting. No disclosures of pecuniary interest were expressed at this time.

3. Adoption of Minutes

**Motion No.
SPC-19-293**

**Moved by Robert Emerson
Seconded by Angela Newman**

THAT the Minutes of the July 26, 2019 Source Protection Committee meeting be adopted as distributed.

Carried

4. Matters Arising from the Minutes

No matters arose from the previous minutes.

5. Correspondence

Letter dated September 4, 2019 from the Minister of the Environment, Conservation and Parks, Jeff Yurek reappointing Bill Twaddle as the Chair to the Source Protection Committee was **noted and filed**.

Letter dated October 9, 2019 from the Source Protection Programs Branch commenting on the draft Section 36 Workplan was **noted and filed**.

Bayshore Broadcasting news report dated September 17, 2019 respecting the Ruhl Lake Source Water Protection Review was **noted and filed**.

6. Reports

Administration Report 6a

The Project Manager reviewed Report 6a and advised that recently, two students from Wilfred Laurier University in Waterloo, Ontario interviewed the Project Manager and Program Supervisor/Communications Planner respecting risk management decision-making. The students were also interviewing municipal staff and first responders, ensuring information was consistent with local knowledge.

As part of the SPC member renewal/replacement process, the remaining two SPC members (agricultural sector and environmental sector representatives) will be renewed/replaced by the Spring/Summer of 2020. Input will be sought from the agricultural sector respecting the agricultural representative.

Staff has been meeting with and receiving feedback from municipalities respecting implementation of the source protection policies, as well as receiving input from municipalities with regard to possible Source Protection Plan amendments.

Communications Report 6b

The Communications Specialist reviewed Report 6b and advised of the various events that had been organized and/or attended and activities that were completed since the last SPC meeting.

Delegation

The Liaison Officer for the Ministry of the Environment, Conservation and Parks (MECP), Olga Yudina, gave an informative presentation showing pertinent statistics from the 2018 Annual Reporting received from all Drinking Water Source Protection offices in Ontario.

The Committee recessed from 1:45 p.m. to 1:55 p.m.

7. New Business

Section 36 Workplan for Source Protection Plan Amendments Report 7a

The Project Manager reviewed Report 7a and discussed various articles of the s. 36 Workplan with the Committee members. Comments and amendments were received from Committee members and the three Source Protection Authorities (SPA) have been or will be presented with a draft prior to the workplan being sent to the MECP: Northern Bruce Peninsula SPA on September 23, 2019, Grey Sauble SPA on September 25, 2019, and Saugeen Valley SPA on November 7, 2019. When the workplan is in its final form, a draft will be forwarded to the MECP for comments prior to finalization. The final version will be submitted to the MECP by November 30, 2019.

**Motion No.
SPC-19-294**

**Moved by Dennis Kefalas
Seconded by Bruce Davidson**

THAT the Saugeen, Grey Sauble, Northern Bruce Peninsula Source Protection Committee endorses the revised Section 36 Workplan for Comprehensive Review and Update of the Saugeen, Grey Sauble, Northern Bruce Peninsula Source Protection Plan;

AND FURTHER that Drinking Water Source Protection staff submit the Section 36 Workplan to the Ministry of the Environment, Conservation and Parks by November 30, 2019.

Carried

8. Other Business

The Administrative Assistant requested that Committee members confirm their direct deposits are consistent with their records of meetings attended and advise of any discrepancies. Written confirmation of deposits will be forthcoming following all future deposits.

Environmental sector SPC Committee member, Bruce Davidson, advised of several water-related initiatives and activities that are planned in the next few weeks.

The Chair advised that Grey Sauble Conservation CAO, Sonya Skinner, resigned at the end of July 2019 and Saugeen Valley Conservation General Manager/Secretary Treasurer, Wayne Brohman, is retiring effective October 31, 2019. Both conservation authorities will be seeking individuals for the respective positions.

There was no other business.

9. Confirmation of Next Meeting and Adjournment

The next Committee meeting will be held on Friday, March 27, 2020 at the Grey Sauble Conservation Administration Offices, 237897 Inglis Falls Road, RR4, Owen Sound, Ontario.

There being no further business, Gord Timmerman made a motion to adjourn at 2:40 p.m.

Bill Twaddle
Chair

Nancy Guest
Recording Secretary

REPORT #6a

TO: SOURCE PROTECTION COMMITTEE

DATE: MARCH 27, 2020

SUBJECT: ADMINISTRATION REPORT

Source Protection Programs Branch Updates

Keley Katona has recently been appointed Director of the Ministry of the Environment, Conservation and Parks (MECP) Source Protection Programs Branch. Ms. Katona transferred from the Ministry of Energy, Northern Development and Mines as the Director of its Investment and Governance Branch where she was responsible for shareholder, governance, and financial advice related to the Provincial ownership of Hydro One.

Also, Tea Pesheva is the new MECP Liaison Officer for this Region replacing Olga Yudina. Tea completed a Masters in Sustainable Management from the University of Toronto with a focus on water management and has previous experience working within the Source Protection Programs Branch.

Source Protection Program Budget

In December 2019, Staff submitted a draft 2020/2021 Drinking Water Source Protection (DWSP) Program workplan to the MECP regarding next year's program funding approvals. The workplan template was similar to last year's, with a similar breakdown of work based on "mandatory/legislated activities" and "essential/program support activities". The proposed staffing breakdown for the 2020/2021 workplan is as follows:

Administrative Assistant	0.2 Full-time Equivalent
Program Supervisor/Communications Specialist	0.6 Full-time Equivalent
GIS Specialist	0.2 Full-time Equivalent
Project Manager	0.8 Full-time Equivalent
TOTAL:	1.8 Full-time Equivalent

The workplan included: DWSP program and Source Protection Committee (SPC) maintenance; completion of annual reporting requirements and support meetings with municipalities (eight meetings planned); implementation of source protection policies (identifies need for 100% awareness of implementation obligations by implementing bodies); and consultation with municipalities and other stakeholders regarding proposed amendments to Source Protection Plan policies as specified under the Section 36 Workplan submission.

Final MECP approval of the 2020/2021 workplan is anticipated shortly.

Municipal Implementation Meetings

Since the last SPC meeting in October 2019, several meetings were held to provide updates and support municipalities with implementation requirements, as well as to provide an update on the status of the Section 36 Workplan. These meetings included municipal planning staff, as well as municipal councillors as part of the Operations Committee meeting in Owen Sound.

These meetings took place on the following dates:

Bruce County (Official Plan amendment meeting)October 30, 2019
City of Owen Sound (municipal staff).....November 13, 2019
City of Owen Sound (Operations Committee meeting).....February 11, 2020

Climate Change Risk Assessment Tool

The Project Manager also participated in a Conservation Ontario (CO) -led training session on January 30, 2020 on the use of a climate change vulnerability assessment tool for water quality of drinking water sources. This semi-quantitative, Excel-based tool and its guidance document were developed through a multi-stakeholder, collaborative project coordinated by CO, involving conservation authorities (CAs), MECP, Ontario Climate Consortium, Engineers Canada, academia, and others.

The tool enables users to quantitatively assess climate change impacts on drinking water systems and identifies risk levels based on the vulnerability of a given system and its ability to adapt to climate change impacts. The tool can then be used to help decision-makers (i.e. municipalities) prioritize efforts to address future climate change impacts.

Respectfully submitted,



Carl Seider
Project Manager
Drinking Water Source Protection

REPORT #6b

TO: SOURCE PROTECTION COMMITTEE

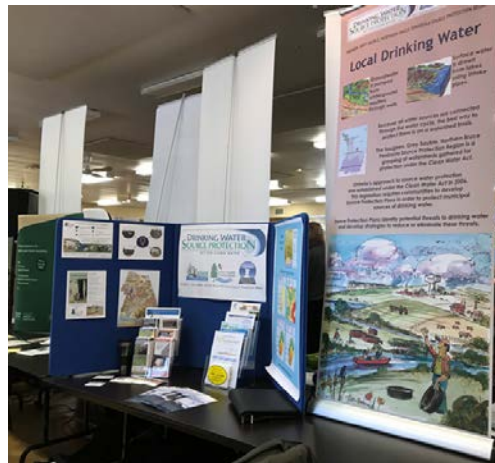
DATE: MARCH 27, 2020

SUBJECT: COMMUNICATIONS

Note: This Report was written prior to the recent declaration of a Provincial Emergency, so the proposed meetings and dates noted in this Report are subject to change.

Events Attended:

Drinking Water Source Protection (DWSP) and Grey Sauble Conservation Authority (GSCA) staff attended “Crops Day” on Thursday, January 9, 2020 during Farmers’ Week in Elmwood ON with a display booth.



DWSP staff also attended the Grey County Federation of Agriculture and Bruce County Federation of Agriculture Politicians’ Meeting on March 14, 2020 in Elmwood. Approximately seventy MPs, MPPs, Wardens, Mayors, Councillors and Media attended this event along with the invited stakeholder groups that presented briefs respecting their respective programs.

Upcoming Events:

Grey Bruce Children’s Water Festival will be celebrating its 20th year and 50,000 water stewards on May 12-14, 2020 in Chesley ON, (dependent on the teacher strike situation). Volunteers are needed and encouraged to enjoy the lunch provided along with the experience of encouraging the young students to have an understanding and appreciation for the water they use and the environment in which they live. Visitors such as politicians, media, SPC members, etc.

are welcome to enjoy tours by attending the event. The Festival relies on the generosity of many sponsors. If you would like to sponsor, or you know of someone or business, who would like to sponsor this worthwhile event, please let Karen Gillan know.

Drinking Water Source Protection will have a display/activity in the pavilion along with other departments as part of the Hibou Free Family Fun Day at the Hibou Conservation Area on Saturday, June 20, 2020. If you haven't visited Hibou yet, this is a great opportunity to visit, explore the trails, beach and participate in the family fun. Everyone is welcome!

HIBOU Free Family Fun Day

Hibou Conservation Area
on **Saturday, June 20, 2020**
from **10:00 am to 3:00 pm**
Free Parking
359186 Grey Road 15, Municipality
of Meaford (between Owen Sound & Leith)

SAVE the DATE
June 20, 2020
A Family Day
Filled with Fun
Educational
Activities
Snakes, Reptiles, Fish,
and Trails

Rain or Shine - Dress for the Weather

Friends of **HIBOU** 
friendsofhibou.com

 Grey Sauble Conservation
greysauble.on.ca

Annual Arbour Day Tree sales at Grey Sauble Conservation and Saugeen Valley Conservation will be held on Saturday, April 25, 2020 (Weather permitting. Check the websites to confirm: www.greysauble.on.ca and www.svca.on.ca.)

Respectfully submitted,



Karen Gillan
Communications Specialist
Drinking Water Source Protection

REPORT #6c

TO: SOURCE PROTECTION COMMITTEE

DATE: MARCH 27, 2020

SUBJECT: SECTION 36 WORKPLAN UPDATE

On January 21, 2020, the Minister of the Environment, Conservation and Parks (MECP) issued a letter, a copy of which is included in “Correspondence”, to the three Source Protection Authorities and the Chair of the Source Protection Committee regarding the Section 36 workplan that was submitted November 29, 2019. The letter confirms that implementation of the Source Protection Plan for the Saugeen, Grey Sauble, Northern Bruce Peninsula Source Protection Region is going well. It also outlined the process for making updates to the assessment reports and plan based on the items noted in the workplan.

Staff will be conducting updates to the source protection plan based on the amendments identified in the workplan with a target date of March 2021 to complete the work. It is important to note that the requirements to conduct consultations with affected parties (e.g. landowners, municipalities), as specified under the *Clean Water Act*, will be a key part of this amendment process.

The key items that were identified in the Section 36 workplan are as follows:

- Confirmed a new municipal drinking water system in Burgoyne (Arran-Elderslie), new well 2A in Durham, and new well D5 in Dundalk.
- Fuel threat calculations for the East Linton intake protection zone (Events-based Area) were reviewed for possible vulnerable area delineation due to recent Ontario Drinking Water Standard changes for benzene.
- Liquid hydrocarbon pipelines recently added to Table of Drinking Water Threats (no anticipated impact as there are no liquid fuel pipelines in Region).
- Review IPZ delineations for Ruhl Lake intake for possible changes to ASM storage/application threat policies, given increased results of E. coli in raw water samples.
- Possible Technical Rule changes to impervious surface area calculations for salt application threats and possible changes to salt storage threat circumstances (e.g. storage below 500 tonnes).

- Written direction policy for Risk Management Officials (RMOs) under s.59 screenings.
- Review of Monitoring Policies based on feedback from municipalities to streamline annual reporting requirements.

RECOMMENDATION: THAT the Saugeen, Grey Sauble, Northern Bruce Peninsula Source Protection Committee receives a copy of Report 6c Section 36 Workplan Update for information purposes.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Carl Seider", written in a cursive style.

Carl Seider
Project Manager
Drinking Water Source Protection

REPORT #7a

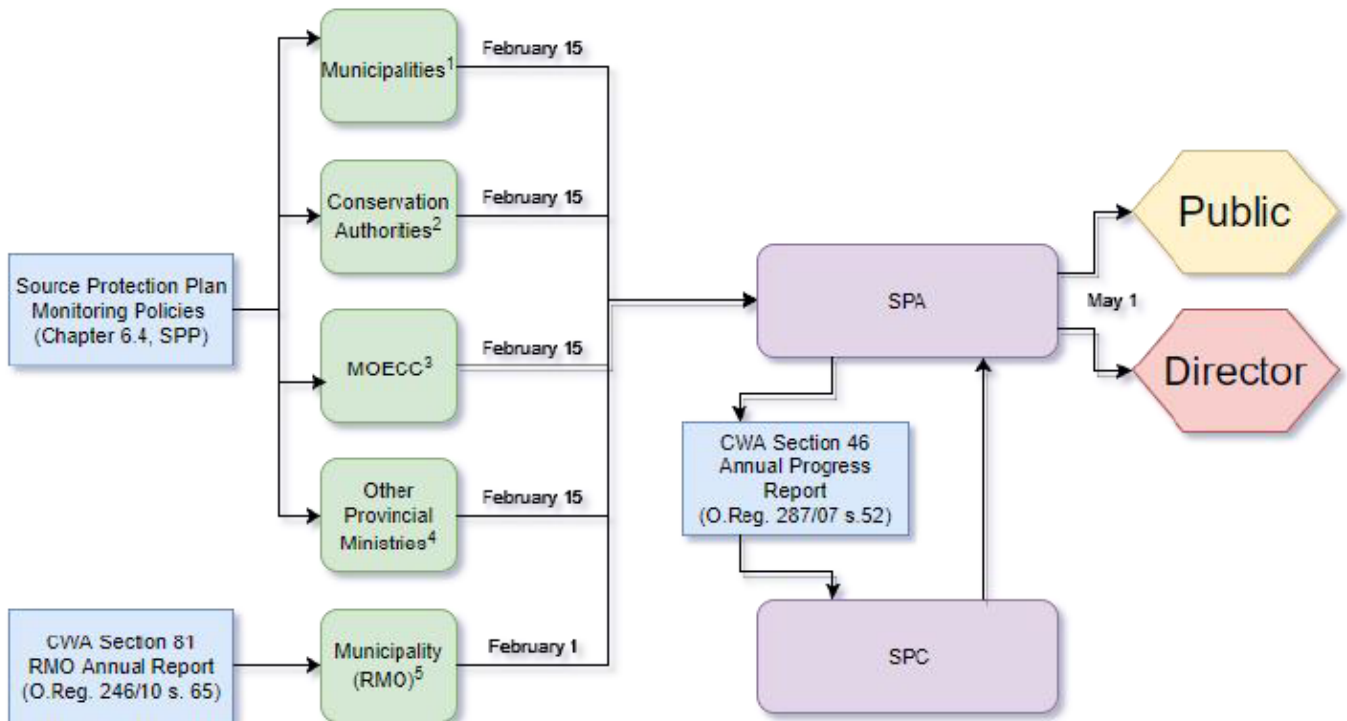
TO: SOURCE PROTECTION COMMITTEE

DATE: MARCH 27, 2020

SUBJECT: ANNUAL PROGRESS REPORT

The annual report for the Saugeen, Grey Sauble, Northern Bruce Peninsula Source Protection Region covers the period of January 1, 2019 to December 31, 2019 and must be submitted to the Ministry of the Environment, Conservation and Parks (MECP) by May 1, 2020. The Annual Progress Report highlights the progress on Source Protection Plan implementation, results of municipal monitoring programs, and any steps to address gaps in the Plan. Staff has been meeting with municipalities over the past few months to help complete the draft Report. Below is a flow chart outlining the annual reporting submission process.

Source Water Annual Reporting Process



The Source Protection Committee (SPC) is required to conduct a formal review of the annual progress report and provide written comments regarding the extent to which the objectives set out in the Source Protection Plan are being achieved.

The following is a summary of the information included in the draft Annual Progress Report:

- To-date, approximately 145 out of an estimated 175 Risk Management Plans have been completed across the Region.
- There have been 183 inspections carried out by Risk Management Officials/Inspectors for prohibited or regulated activities.
- Twenty of the twenty-one upper/lower-tier municipalities across the Region have completed or are in the process of completing Official Plan/Zoning By-law updates. Sixteen have fully completed Official Plan updates, while fourteen have completed Zoning By-law updates.
- 304 out of 312 septic inspections have been completed as required under the *Clean Water Act* and *Building Code Act* within vulnerable source protection areas.
- Following the completion of eight municipal meetings conducted between May and November 2019, it has been determined that overall municipalities were 90% prepared to meet Source Protection Plan implementation requirements.
- 71% of the significant drinking water threat policies have been fully implemented, 26% are in progress and 3% require no further action.
- The municipalities have approximately 1½ years to fully implement Source Protection Plan policies and are therefore well on track to full implementation.

Attached is a draft copy of the Source Protection Annual Progress Report for review.

RECOMMENDATION: THAT the Saugeen, Grey Sauble, Northern Bruce Peninsula Source Protection Committee receives a copy of the draft Source Protection Annual Progress Report; and further,

THAT the Saugeen, Grey Sauble, Northern Bruce Peninsula Source Protection Committee direct Staff to provide copies of the draft Source Protection Annual Progress Report along with any comments to the Grey Sauble, Saugeen Valley and Northern Bruce Peninsula Source Protection Authorities respectively, and to submit a final version to the Ministry of the Environment, Conservation and Parks by May 1, 2020.

Respectfully submitted,



Carl Seider
Project Manager
Drinking Water Source Protection

REPORT #7b

TO: SOURCE PROTECTION COMMITTEE

DATE: MARCH 27, 2020

SUBJECT: SOURCE PROTECTION PLAN AMENDMENTS

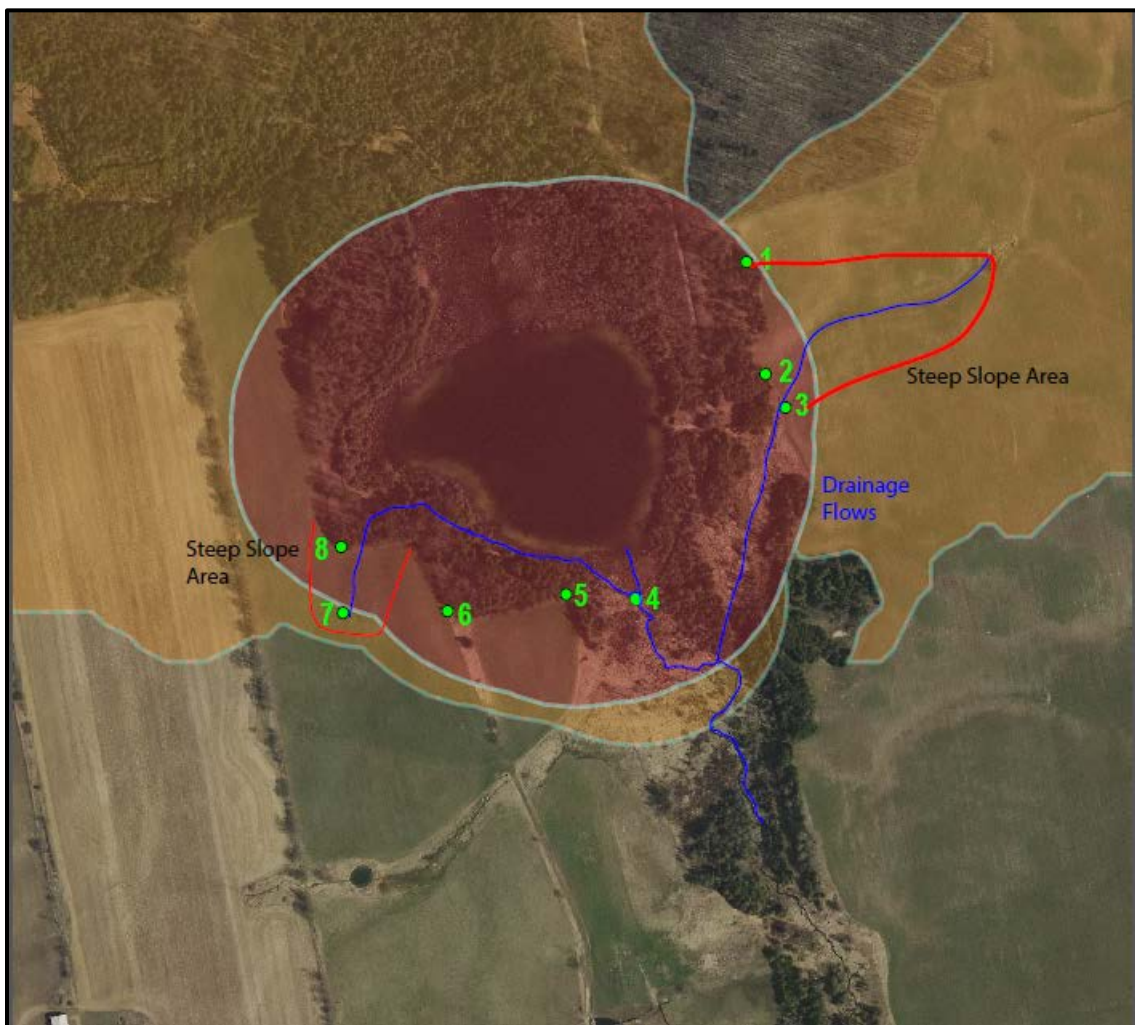
Staff recently learned that the Municipality of Arran-Elderslie has opted to proceed with the fragmentation of the Burgoyne Communal Water System in accordance with the procedure specified by the Ministry of the Environment, Conservation and Parks (MECP), whereby individual property owners would be responsible for providing their own potable water supply. This option still requires the approval of the MECP Director to permit fragmentation. If this option is permitted by the Ministry, then a new WHPA would need to be included in the delineation for Burgoyne as part of the Source Protection Plan amendment.

Policy 12-01: The Application of Road Salt. Phase 2 Technical Rules review identified the potential to change impervious surface area calculations where this activity could be considered a significant drinking water threat (e.g. from 80% to 30% impervious surface area). As well, the Source Protection Committee (SPC) Chair received a letter on January 17, 2020 from Lake Erie Source Protection Region seeking support for actions to address over-application of winter maintenance chemicals to protect municipal drinking water sources. The report highlighted the issues with increasing sodium and chloride concentrations at groundwater wells within the Grand River watershed. Pending the results of the Phase 2 Technical Rules review, Staff will review impervious surface area calculations to determine additional areas where salt application threat policies would apply.

Policy 13-01: The Handling and Storage of Road Salt. It was determined that there is a potential policy gap in terms of the effectiveness of this policy to address potential sodium threats to groundwater sources. Currently, the Tables of Circumstances states that the storage of road salt needs to be at least 500 tonnes (in a manner that may result in its exposure to precipitation or runoff from precipitation or snow melt) before it is considered a significant threat. Covered storage is not considered a significant risk.

As part of the Phase 2 Technical Rules Review, Ministry staff presented possible changes to road salt storage whereby a significant risk in WHPA-A would be: 1) Any quantity for uncovered storage; 2) 100 kilograms for covered storage; 3) 500 tonnes or greater for engineer facility or structure.

Policy 03-02: Application of Agricultural Source Material is being reviewed for the Ruhl Lake Intake Protection Zone area in response to significant levels of E. coli and total coliforms in raw water samples taken by municipal staff and noted in MECP Drinking Water Inspection reports. On October 11, 2019, staff conducted an initial site visit to Ruhl Lake to determine if there were any observed transport pathways to the Lake that may not have been noted as part of the initial assessment report work. Below is a map of Ruhl Lake with noted points where steeper slopes were observed with the potential for increased surface drainage flows towards Ruhl Lake. In these areas, there were no observed transport pathways (e.g. tile drain outlets, ditches) or drainage flow with possible connections to the lake. Also, during the site visit many waterfowl were observed on the lake and could be one of the potential sources for the increased levels of fecal coliform and E.coli in the lake. Staff is planning to conduct a second site visit in the Spring during spring melt conditions to see if there are other possible surface water connections to the lake due to the possibility for water to back-up at the outlet of Ruhl Lake.



Policy 15-05: Risk Management Plan for Fuel Near Great Lakes Intakes. The SPC requested a review of the Events-Based Area (EBA) desktop model analysis for the Owen Sound and East Linton intakes. As the Ontario Drinking Water Standard was recently changed from 0.005 mg/L

to 0.001 mg/L, the modeled impacts to the East Linton intake would now be designated a Significant Drinking Water Threat.

Based on the Baird Study, modeled spills of 50,000L at a distance of 8,642 metres from the East Linton intake resulted in a modeled concentration of 0.004 mg/L of benzene. Using the desktop model tool, Staff conducted five additional modeled spills of 5,000L as follows:

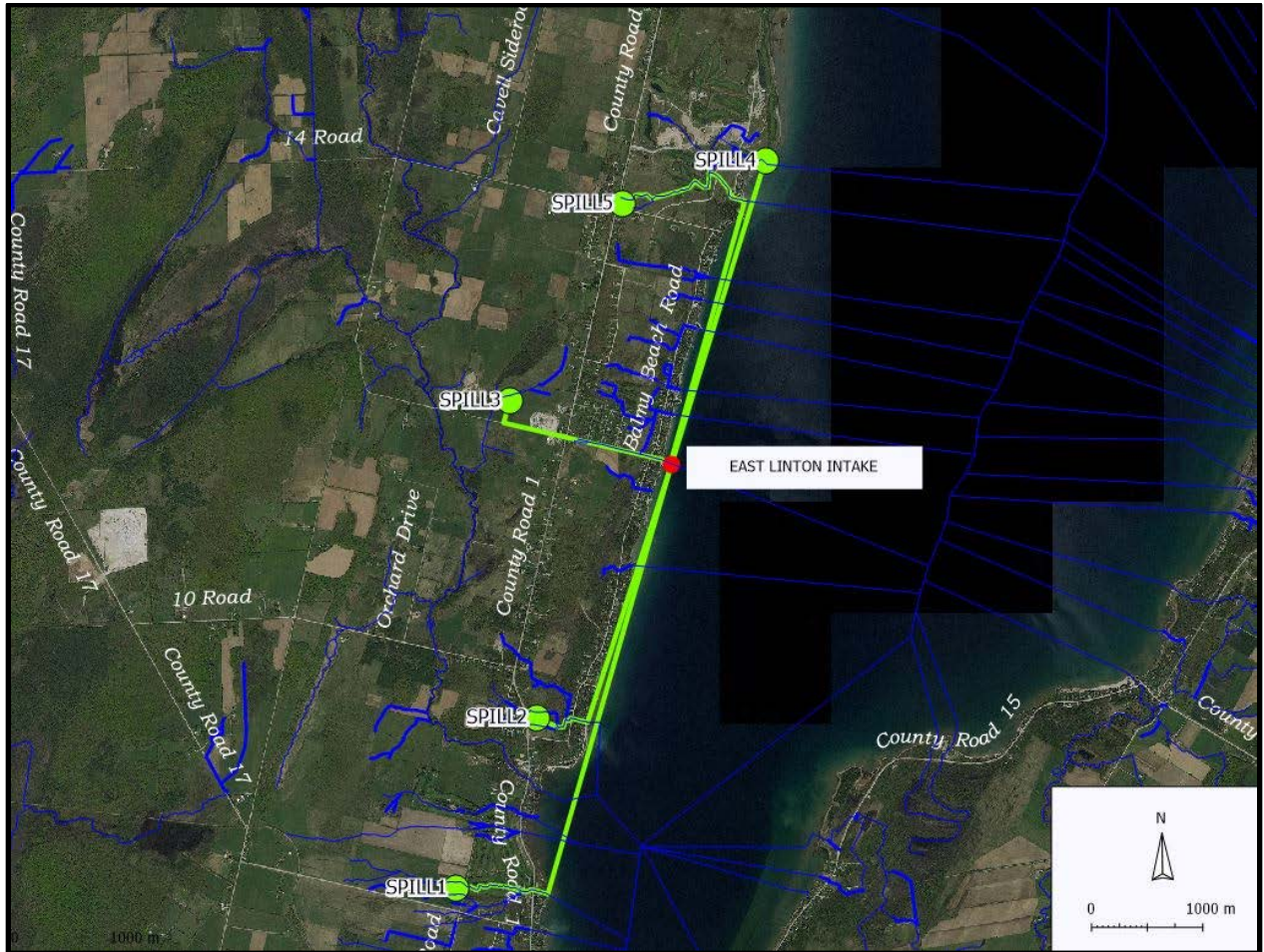
Spill #	Volume (L)	On-Land Distance (m)	In-Lake Distance (m)	Concentration at Intake (mg/L)	Min Volume to cause exceedance at intake (L)
SPILL 1	5000	916	4021	0.000	10400
SPILL 2	5000	542	2418	0.001	5490
SPILL 3	5000	1657	130	0.012	410
SPILL 4	5000	0	2853	0.001	4350
SPILL 5	5000	1455	2454	0.001	7500

The preliminary results of these modeled spills show a range in minimum volumes that would cause an exceedance at the East Linton intake from approximately 500 to 10,000 litres, depending on the location of the spill.

The modeled results also provide a rough outline for a possible Events-based Area (EBA) delineation where spill volume thresholds can be identified based on the modeled exceedances. For example, a threshold of 5,000 litres closely matches exceedance levels for spills at the Spill #2 and #4 locations.

Furthermore, the location of Spill #5 is within the Owen Sound EBA, which currently has exceedance threshold of 15,000 litres for the Owen Sound drinking water intake. In discussions with Ministry staff, the SPC can determine whether to maintain separate EBA delineations for East Linton and Owen Sound with different exceedance thresholds or revise values for Owen Sound based on the updated model results.

Below is a map of the additional spill locations that were modeled for the East Linton EBA.



RECOMMENDATION:

THAT Drinking Water Source Protection Staff continue to coordinate with the Ministry of the Environment, Conservation and Parks with respect to proposed updates to the Director’s Technical Rules in support of Section 36 Source Protection Plan amendments.

Respectfully submitted,

Carl Seider
Project Manager
Drinking Water Source Protection