NOTICE OF APPROVAL OF PROPOSED SOURCE PROTECTION PLAN AMENDMENT BY SOURCE PROTECTION AUTHORITY

(pursuant to section 48.2 (5) of Ontario Regulation 287/07)

Existing or Planned Municipal Drinking Water System (System):

New Durham Well 1C and Chesley Well 4

Name of Owner of Existing or Planned Municipal Drinking Water System (Owner):

Municipality of West Grey

Municipality of Arran-Elderslie

Applicable Source Protection Area (Source Protection Area):

Saugeen Valley Source Protection Authority

As part of the planned Section 34(8) amendments to the Saugeen Grey Sauble Northern Bruce Peninsula Source Protection Plan, staff have been working with the local Source Protection Committee and Municipalities of West Grey and Arran-Elderslie to complete updated Wellhead Protection Area (WHPA) delineations for the proposed new well 1C in Durham and well 4 in Chesley.

In support on this amendment, on November 13, 2026 staff received Director approval (Director Leo Luong, Great Lakes and Inland Waters Branch, Ministry of the Environment, Conservation and Parks). Upon receipt of this approval, under Sec.48.2 (5) of O. Reg. 287/07 of the Clean Water Act, 2006, the Source Protection Authority is delegated responsibility to then approve the plan amendment.

Regulatory amendments require that this Notice be accompanied by a copy of resolutions by affected municipal councils (see appendix A), a summary of the approved amendment and a summary of written comments along with a brief explanation of the effect of those comments on the final proposed amendment (see attached). Also, a copy of the updated explanatory document reflecting the approved amendment will be provided.

Summary of Approved Amendments

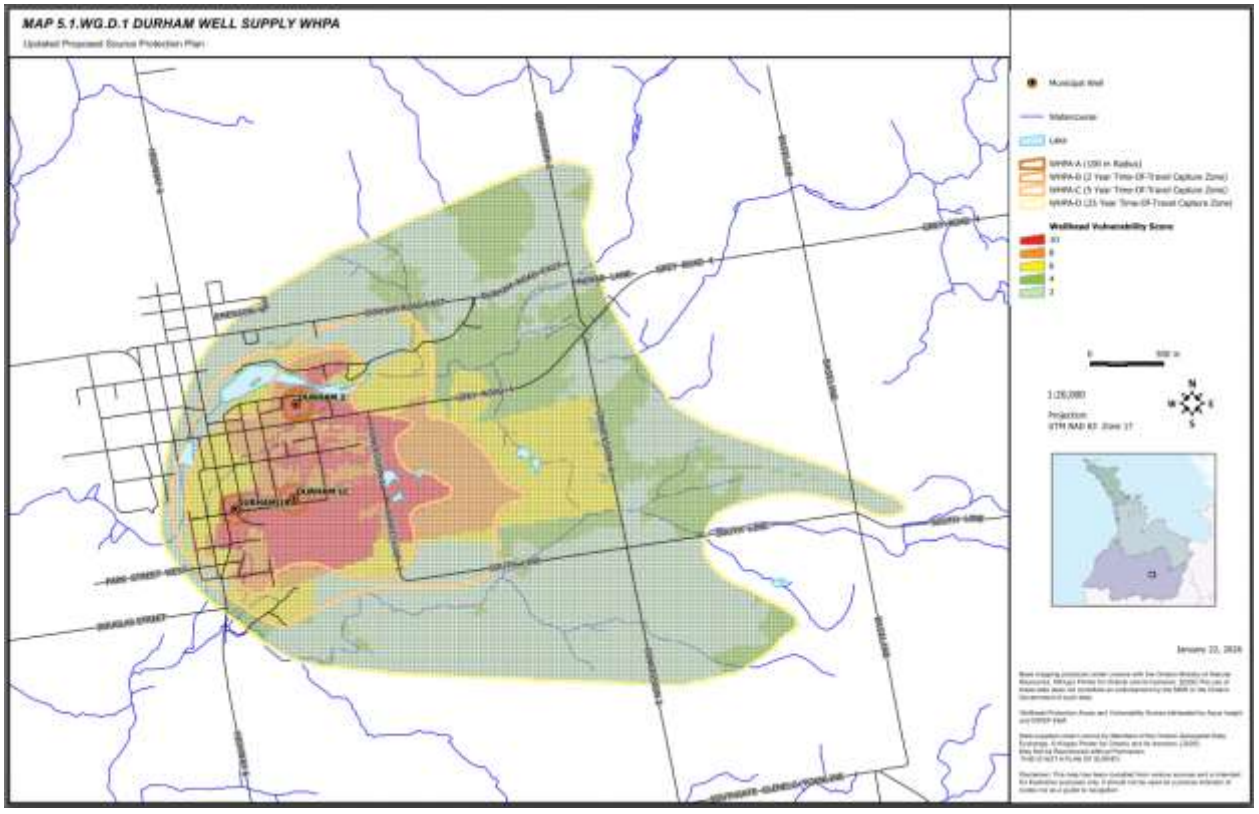
With respect to the new Durham WHPA, in comparison to the previous model developed by WHI (2003), several key differences were identified as reasons for the changes in the resulting WHPA. These changes were reflected in the following assessment report amendments:

- **Section 4.1.2.1** Added description of Surface to Well Advective Travel Time (SWAT) approach used for revised Durham well threat assessment. In this case, the SWAT approach was selected to evaluate the aquifer vulnerability as it utilizes the three-dimensional hydrogeologic characterization and groundwater flows and calculations are more consistent with the particle tracking techniques employed to delineate WHPAs.

- **Section 4.1.8.1** Added details for uncertainty case models conducted for revised Durham WHPA
  For the revised Durham WHPA, the groundwater flow model applied in this project was refined relative to previous work (WHI, 2003), and the groundwater flow model calibration was improved as additional borehole and water level data became available and new studies were conducted.

- **Section 4.2.13.2.1** Durham Well Supply made updates to description and associated tables for the new Well#1C Aqua Insight Inc. completed an extensive source protection study in 2026 to support an amended WHPA and vulnerability assessment for the Durham wells. As part of this study the groundwater model was updated with conceptual refinements, resulting in significant changes in the size, shape, and orientation of the WHPAs. WHPAs were delineated using the average daily pumping rates representative of the estimated future (i.e., 2052) daily demand for the town of Durham. Future daily demand for the town of Durham was forecasted to be 2594 m^3/d. The results of the microbiological analyses for Well#1C indicated no E. coli or total coliforms were detected and that the bacteriological background count was also zero. Based on this analysis, Well#1C is not considered a surface water-groundwater connection sources.

  Staff then used the updated WHPA and vulnerability mapping (see map below) to complete a threats assessment and update draft source protection plan mapping in preparation for Source Protection Plan Amendments.



- **Section 4.2.1.2.1** Chesley Well Supply – updates to description and associated tables for new Well #4

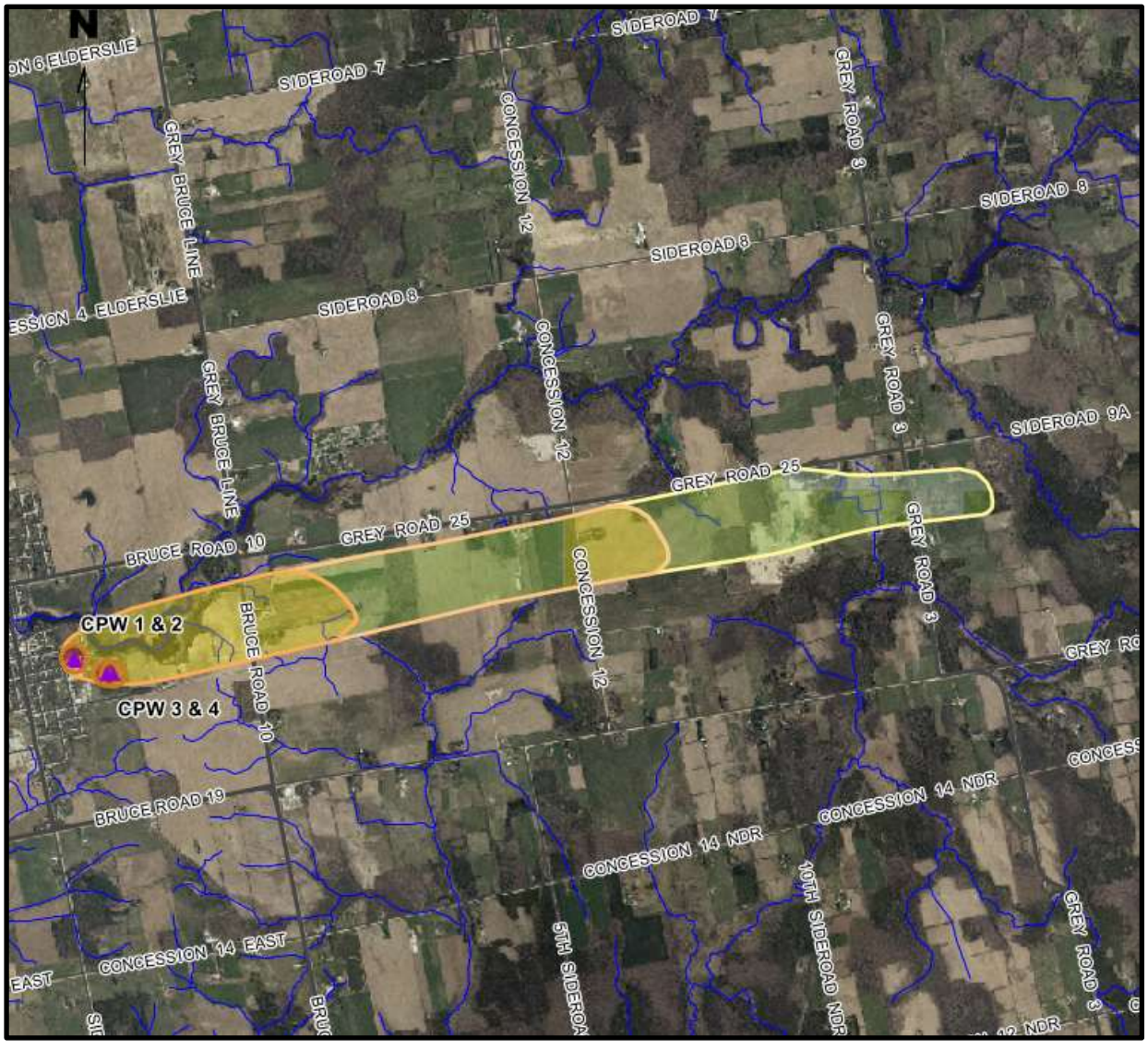
Based on the pump test results for CPW 4, it was noted that water quality results indicate that the contact aquifer is a secure source of groundwater and not classified with a surface water-groundwater connection. It was also determined that

the groundwater source is essentially the same as Well #3, as Well #4 is located at a similar depth and only 56 metres East of Well #3.

The modelled rate was compared to the current average pumping rates, which have only increased slightly over the past 20 years. As the original rate was quite conservative, it was felt that the original modelled rate is still valid. Given the location of the new Well #4, the current WHPA provides suitable protection for the new water supply, with a slight extension to the WHPA-A around Well #4 at the South end of the area. Also, the new WHPA-A for Well #4 affects the same properties and does not result in the addition of any new properties or threats.

Also, minor Amendment to threat terminology, removal of GUDI references, and other minor corrections to align with 2021 Technical Rule changes were included.

Below is a map of the proposed new WHPA for Chesley, with the addition of Well #4.



As part of the amendment process, the following consultation steps were taken:

EARLY Engagement	March 25, 2026	Source Protection staff and Ministry of the Environment, Conservation and Parks reviewed technical work
EARLY	March 27, & July 24, 2026	A report was submitted to the SPC, Administration Report 7a, Durham and Chesley WHPA Delineation Updates
EARLY	May 6, 2026	Source Protection staff and Ministry of the Environment, Conservation and Parks reviewed technical work
Pre-Con	June 22, 2026	Letter to Stakeholders including government, municipal, neighbouring SPAs, First Nations
Pre-Con	June 22, 2026	NOTICE OF AMENDMENTS TO SOURCE PROTECTION PLAN - pursuant to section 48(1.1)(b) of Ontario Regulation 287/07 sent to SVCA and submitted to MECP Director
Pre-Con	August 10, 2026	Presentation to Arran-Elderslie Council to receive Council support resolution prior to Public Consultation
Pre-Con	July 7, 2026	Presentation to West Grey Council to receive Council support resolution prior to Public Consultation
Public	August 24, 2026	Received letter from Durham Stone & Paving Inc. with comments regarding proposed Durham WHPA
Public	September 9, 2026	SPC Response letter sent to Durham Stone & Paving Inc.
Public	October 28, 2026	SPC and Municipal meeting held with Durham Stone & Paving Inc. to address comments
Submission	October 9, 2026	Submission of complete Sec.34 amendment package sent to MECP
Approval	November 13, 2026	MECP Director Approval Received

All actions by the SVSPA for the purposes of this Notice are undertaken as the Source Protection Authority for the above noted Source Protection Area and are subject to the *Clean Water Act, 2006*.

Issued by: Erik Downing
General Manager/Secretary-Treasurer

Date: November 23, 2026

Tom Hutchinson, SVCA Board Chair

Appendix A – Municipal Council Resolutions

Municipality of Arran-Elderslie

Christine Fraser-McDonald<CFraser@arran-elderslie.ca>
Carl Seider
Erik Downing
Dear Carl:

Council passed the following resolution at their meeting on Monday August 10, 2026:

256-14-2026

Moved by: Deputy Mayor Shaw
Seconded by: Councillor Nickason

THAT the Council of the Municipality of Arran-Elderslie receives the report on the Chesley Wellhead Protection Area Amendment, prepared by staff of the local Source Protection Program, for information purposes;
AND FURTHER THAT the Council is in support of the proposed wellhead protection area amendment for the Chesley municipal water system;
AND FURTHER THAT the Council directs staff to forward the resolution to the Saugeen Valley, Grey Sauble, Northern Bruce Peninsula Source Protection Region.
Carried
Thank you.

Christine Fraser-McDonald
Manager of Legislative Services/Clerk

MUNICIPALITY OF ARRAN-ELDERSLIE
P.O. Box 70, 1925 Bruce Road 10
Chesley, ON N0G 1L0
Cell (519) 270-4922
cfraser@arran-elderslie.ca
www.arran-elderslie.ca

MUNICIPALITY OF ARRAN-ELDERSLIE
Allenford Chesley Paisley Tara

MUNICIPALITY OF
West Grey

402813 Grey Road 4
Durham, ON N0G 1R0

July 17, 2026

Drinking Water Source Protection
c/o Grey Sauble Conservation Authority
237897 Inglis Falls Road
Owen Sound, ON N4K 5N6
Via Email
mail@waterprotection.ca

RE: Durham Wellhead Protection Area Amendment

Dear Mr. Seider,

Please be advised that at its meeting held on July 7, 2026, the Council of the Municipality of West Grey considered the above-noted matter and passed Resolution No. R-260707-001 as follows:

"**THAT in consideration of a delegation provided by Carl Seider respecting Durham – New Well 1C Notice, Council:**

1. **supports the proposed wellhead protection area amendment for the Durham municipal water system; and**
2. **directs staff to forward the resolution to the Saugeen Valley, Grey Sauble, Northern Bruce Peninsula Source Protection Region."**

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Jamie Eckenswiller, AOMC, AMP (he/him)
Director of Legislative Services/Clerk
Municipality of West Grey

Durham Stone & Paving Inc.

255 South Street, PO Box 20, Durham, Ontario N0G 1R0 Phone: 519-369-3547

August 17, 2026

Drinking Water Source Protection.
237897 Inglis Falls Road RR 4
Owen Sound Ontario
N4K 5N6

Re: Source Protection Plan Draft Amendments-Notice of Amendments
Relating to Property at 255 South St.E. Durham ON N0G 1R0
Re: Well Head Protection Area (WHPA) for New Water Supply Well #1C
Roll # 4205 260 00511921 0000

Dear Mr. Hibma,

Durham Stone and Paving (DSP) owns and has intermittently operated two large, high-volume industrial use wells located immediately south of South Street. (Attached) These wells have been used for washing high-grade aggregate for industrial and construction purposes as well as the production of ready-mix concrete and hot mix asphalt at our licensed aggregate facility (no.19909). In addition, our heavy equipment repair facility is situated within the wellhead protection area identified in your mapping. While we take pride in maintaining environmentally responsible practices and no longer utilize underground fuel storage, it is important to note that both DSP and the Municipality of West Grey operate similar equipment facilities within the immediate area.

Furthermore, Well 1B (Identified as one of the new potential Municipal water sources) is located on property owned by our company. Our artesian aggregate washing well has been in existence for many years, and we are concerned about preserving our ability to continue using it. We have also made inquiries regarding the feasibility of developing Well 1B as a commercial-grade water bottling site and have been advised that both the water quality and quantity at this location are excellent.

Additionally, DSP holds a Ministry of the Environment Provisional Certificate of Approval (No. A620022) for the processing of organic waste on Part Lot 27, Concession 2 East of Garafraxa Road, which lies immediately south of the proposed New Water Supply Well #1C. Although this organic processing facility has not yet been constructed, it should be taken into consideration by your Agency.

Attached is a letter from Grey Sauble Conservation subsequent to our Composting License on the above-mentioned property advising that there are no drinking water threats on the property.

Our Company, through successive owners, have been part of the Durham community for almost 100 years. We have provided employment and construction materials during that time. We have always been environmentally conscious and shall continue to be so.

We are very concerned however that new restrictions from your agency and others may impede our ability to use long established wells and licences which are currently in place.

Yours sincerely,

Paul S. Arnill
President Durham Stone and Paving Inc

Cc: Municipality of West Grey

September 9, 2026

Mr. Paul S. Arnill
P.O. Box 20
255 South Street East
Durham, ON N0G1R0

Dear Mr. Arnill

RE: Source Protection Plan Draft Amendments – Notice of Amendments
Relating to Property at: 255 South St. E Durham ON, N0G 1R0
Roll No. 4205 260 00511921

Thank you for your letter dated August 17, 2026, regarding concerns with proposed amendments to the local Source Protection Plan for the Durham Wellhead Protection Area (WHPA) as a result of the addition of a new municipal well 1C. It is our intent to work closely with you, along with other property owners in the area to ensure that impacts to existing activities are minimized as much as possible, while acknowledging that future proposed activities may be impacted by the *Clean Water Act*, which came into effect in 2006.

It is important to note that portions of the properties owned/operated by Durham Stone & Paving Inc., are currently located within the Durham WHPA-B zone, whereby the existing Source Protection Plan policies affecting fuel and chemical storage, aggregate washing, organic waste processing, and water taking activities already apply (prior to the addition of Well 1C and planned WHPA changes). The only changes that will affect future activities on the property will be the addition of a new WHPA-A zone (100 metre circle around the new Well 1C), which includes prohibition policies for most activities within this 100 metre circle area.

During the Class EA process, our program was made aware of your concerns and provided the following preliminary comments to the Municipality for consideration:

1. This property appears to fall primarily within the new WHPA-B with a vulnerability score of 8 and 10. Within this area, fuel and chemical storage activities would require a Risk Management Plan to ensure best management practices are being used.
2. With respect to aggregate washing, this will be considered as an existing activity, however there may be implications/conditions added in the future if they have an Environmental Compliance Approval (ECA) for this activity.
3. As for the water bottling idea, there would definitely be implications on this activity, given the proximity to the municipal wells. We don't have water quantity threats identified for Durham, but the municipality would likely want detailed water budget studies conducted if this activity were to be proposed.

Tel 519-470-3000
mail@waterprotection.ca
Office: Grey Sauble Conservation Authority
RR4, 237897 Inglis Falls Road
Owen Sound, ON N4K 5N6

4. Processing organic waste on this property would be permitted, but we would need additional information on the types/categories of organic wastes being considered (e.g. municipal, farm) along with the measures installed to prevent impacts on groundwater. A risk management plan for Non-Agricultural Source Material storage/handling would also be required, as well as Ministry conditions on any ECA/EASR approvals.

We would be willing to meet with your company directly as we move through the planned Source Protection Plan amendments to better understand your concerns in more detail. Program staff may also be able to give you a better idea of the types of risk management measures and plans that may be required to move forward with any future development plans for the property.

In the meantime, if you have any further questions, please feel free to contact Carl Seider, Source Protection Program Manager directly at 519-470-3000 or send an e-mail to mail@waterprotection.ca.

Respectfully,



Dick Hibma, Chair (Acting)
Source Protection Committee

Cc: Municipality of West Grey
Carl Seider, Program Manager