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The Regional Municipality of Durham Information Report

From: Commissioner of Works
Report: #2025-INFO-11
Date: February 7, 2025

Subject:

2024 Source Water Protection Annual Report

Recommendation:

Receive for information.

Report:

1. Purpose

1.1 This report is being provided with a copy of each Source Water Protection Annual Report (Attachments #1 to #3) required by the Clean Water Act, 2006. These reports summarize the implementation efforts and activities undertaken in 2024. Each report was submitted to the corresponding Source Protection Authority by February 1, 2025, in accordance with the Clean Water Act, 2006, and Source Protection Plans.

2. Background

2.1 The Regional Municipality of Durham (Region) is divided into three Source Protection Regions: The Credit Valley, Toronto and Region, Central Lake Ontario Source Protection Region (CTC), the South Georgian Bay Lake Simcoe Source Protection Region (SGBLS) and the Trent Conservation Coalition Source Protection Region (TCC).

2.2 The attached reports summarize the legislated and voluntary proactive activities undertaken by the Region in 2024 to comply with the Clean Water Act, 2006, and Source Protection Plans. Local Source Protection Plans contain policies that set out the reporting requirements for the Region. These reporting requirements have been developed by the Source Protection Committees and vary between Source

Protection Regions. Additionally, the Region has a duty to report the actions taken by Risk Management Officials and Risk Management Inspectors to the respective Source Protection Authority under the Clean Water Act, 2006.

- 2.3 On October 31, 2014, the TCC Source Protection Plan received approval from the Ministry of the Environment, Conservation and Parks (MECP), effective January 1, 2015.
- 2.4 On January 26, 2015, the SGBLS Source Protection Plan received approval from the MECP effective July 1, 2015.
- 2.5 ON January 28, 2015, the CTC Source Protection Plan received approval from the MECP, effective December 31, 2015.
- 2.6 The annual report includes information on the management of existing drinking water threats, development of Risk Management Plans, education and outreach initiatives and planning implications under each specific Source Protection Plan.

3. Implementation

- 3.1 All the properties and landowners with significant drinking water threats have met or corresponded with Regional staff regarding activities on their properties.
- 3.2 The Source Water Protection Plans require Risk Management Plans to be negotiated with landowners. During negotiations, it was found that approximately 90 per cent of the risk management measures contained in the Risk Management Plans included best management practices already in place at each location. These practices included:
 - Employee training records
 - Inspection records
 - Health and safety inspections
 - Spill prevention
 - Work instructions
 - Proper chemical handling; and
 - Storage and regulated waste disposal
- 3.3 The education and outreach component of source water protection is being implemented through social media posts, new website content, hard copy materials and staff presentations.

- 3.4 Regional staff continue to participate in several working groups with other municipalities, conservation authorities and the province to collaborate on implementation of risk management measures, risk management plans, municipal guidance documents and education and outreach.
- 3.5 Regional staff continue to work in partnership with the City of Toronto, Region of Peel and Halton Region as members of the Lake Ontario Collaborative Group. The group is currently working with a project team including DHI Group, to continue the development of the Decision Support System and 3-D hydrodynamic model of western Lake Ontario. This model supports decision making and emergency spill response using existing data inputs from partners such as Ontario Power Generation, Toronto and Region Conservation Authority, and the MECP, as well as specialized monitoring equipment that will be procured as part of this project. This work program is being completed to satisfy the Lake Ontario policies in the approved CTC Source Protection Plan.
- 3.6 Phase 1 of the Lake Ontario Water Quality Forecasting System has been completed and is currently operational, with data validation completed in 2022. Phase 2 work is currently underway, which includes improvements to model calibration and tributary time of travel, and the incorporation of ECO lab and additional lake monitoring equipment. Cybersecurity and functional enhancements were also made to the application in 2024 as part of the Phase 2 work.

4. Updated Groundwater Modelling Project

- 4.1 In 2018, work commenced to update the groundwater modelling for the Regional municipal wells. Groundwater modelling for 27 municipal wells, throughout the Region's eight well systems was updated and approved by the province in 2023 to reflect new Wellhead Protection Areas. The new Wellhead Protection Areas, specifically the community of Cannington in the Township of Brock, may change the properties impacted by Source Protection Plan policies. Staff will begin efforts in Cannington to verify and manage significant drinking water threats to ensure compliance with Source Protection Plan policies.

5. Cannington Issue Contributing Area for Nitrate

- 5.1 In 2023, Regional staff initiated a project to delineate a Wellhead Protection Area – Issue Contributing Area for Nitrate, in response to elevated nitrate concentrations in several municipal wells for the Cannington Municipal Drinking Water System. This work is being carried out in accordance with the Clean Water Act, 2006 and will lead to the implementation of additional Source Protection Plan policies to

address Significant Drinking Water Threats associated with the storage and application of nitrates. The work is scheduled for completion in 2025 and anticipated approval by the province in 2026.

6. Source Protection Plan Implementation

6.1 Implementation of the Source Protection Plans is complete with the CTC and TCC Source Protection Regions.

7. Relationship to Strategic Plan

7.1 This report aligns with the following strategic goals and priorities in the Durham Region Strategic Plan:

- a. Goal 1 Environmental Sustainability - To protect the environment for the future by demonstrating leadership in sustainability and addressing climate change.
 - Protect, preserve and restore the natural environment, including greenspaces, waterways, parks, trails and farmland
- b. Goal 2 Community Vitality - To foster an exceptional quality of life with services that contribute to strong neighbourhoods, vibrant and diverse communities, and influence our safety and well-being.
 - Enhance community safety and well-being
- c. Goal 5 Service Excellence - To provide exceptional value to Durham taxpayers through responsive, effective and fiscally sustainable service delivery.
 - Demonstrate commitment to continuous quality improvement and communicating results

8. Conclusion

8.1 The attached reports provide a summary of the implementation efforts and activities undertaken in 2024.

8.2 For additional information, please contact Tavis Nimmo, Manager, Water Resource Monitoring and Protection, at 905-668-4113 ext. 3737.

9. Attachments

- Attachment #1: Risk Management Official Annual Report – Credit Valley – Toronto and Region – Central Lake Ontario Source Protection Region – January 1, 2024, to December 31, 2024
- Attachment #2: Risk Management Official Annual Report – South Georgian Bay Lake Simcoe Source Protection Region – January 1, 2024, to December 31, 2024
- Attachment #3: Risk Management Official Annual Report – Trent Conservation Coalition Source Protection Region – January 1, 2024, to December 31, 2024

Respectfully submitted,

Original signed by Christine Dunkley,
Director of Corporate Infrastructure and
Strategic Business Services for

Ramesh Jagannathan, MBA, M.Eng., P.Eng., PTOE
Commissioner of Works

The Regional Municipality of Durham

Risk Management Official Annual Report

Credit Valley – Toronto and Region – Central Lake Ontario Source Protection Region

January 1, 2024 – December 31, 2024

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1. List of Abbreviations and Acronyms

| | |
|--------|---|
| AR | Assessment Report |
| BMP | Best Management Practice |
| CA | Conservation Authority |
| CWA | Clean Water Act, 2006 |
| DNAPL | Dense Non-Aqueous Phase Liquid |
| E&O | Education and Outreach |
| ID | Identification |
| IPZ | Intake Protection Zone |
| MECP | Ministry of the Environment, Conservation, and Parks |
| OFEC | Ontario Farm Environmental Coalition |
| OMAFRA | Ontario Ministry of Agriculture, Food and Rural Affairs |
| PI | Prescribed Instrument |
| RMI | Risk Management Inspector |
| RMM | Risk Management Measures |
| RMO | Risk Management Official |
| RMP | Risk Management Plan |
| SDWT | Significant Drinking Water Threat |
| SPA | Source Protection Authority |
| WHPA | Wellhead Protection Area |

2. Report Information

| | |
|-----------------------------|---|
| Name of Municipality | The Regional Municipality of Durham |
| Source Protection Authority | Credit Valley-Toronto and Region-Central Lake Ontario |
| Water Supply System | Uxville Industrial Park |
| SPA Staff Contact | Behnam Doulatyari |
| Submitted By | Tavis Nimmo, Risk Management Official |
| Date Submitted | January 31, 2025 |

3. Annual Report

This annual report is provided in accordance with Section 81 of the *Clean Water Act, 2006*. It outlines the activities undertaken by the Regional Municipality of Durham in 2024 that were required by legislation as well as a summary of progress to date in implementing the Source Protection Plan.

4. Risk Management Officials, Inspectors and Training

RMO/RMI require renewal course every five years.

| Name | Title | RMO/RMI Training Date | Property Entry Training Date |
|------------------|---------------------------|-----------------------|------------------------------|
| Shelly Cuddy | Risk Management Official | September 2023 | August 2023 |
| Tavis Nimmo | Risk Management Official | December 2021 | December 2021 |
| Colin Hall | Risk Management Inspector | September 2022 | September 2022 |
| Maureen Bianchet | Risk Management Inspector | November 2024 | February 2024 |
| Ashley Brettell | Risk Management Inspector | November 2024 | November 2024 |
| Carly Graham | Risk Management Inspector | November 2022 | November 2022 |

5. Risk Management Office

5.1. Provide an overview of work planned for 2025

| Item | Description |
|---|---|
| Threat Verification | Threat verification complete. |
| RMPs | RMPs have all been completed. |
| E&O | Staff will continue distributing education and outreach materials in areas with low and moderate threat levels as rules permit. |
| Application Review and Section 59 Notices | Continue to review Planning Act/Building Permit applications. |
| Incentives | Reviewed and determined there is no need for incentives in this period. |

6. Annual Progress Report as per Section 46(1) Clean Water Act, 2006 and Section 52(1) O.Reg 287/07

6.1. Provide an update for applicable RMO implementer policies

| SDWT Type | Policy ID | Status | Existing Percent Complete |
|---------------------|--------------|----------|---------------------------|
| Waste Disposal Site | WST-1, WST-6 | Complete | 100 |
| DNAPL | DNAP-1 | Complete | 100 |
| Organic Solvents | OS-1 | Complete | 100 |

6.2. Provide the number and type of Section 59 notices issued. The risk management office reviews planning/building applications in vulnerable areas to determine if potential land use activities pose a threat to the quality or quantity of municipal drinking water sources.

| Number of Section 59 Notices Where No Prohibition or No RMP Required | Number of Section 59 Notices Where RMP Required |
|--|---|
| 1 | 0 |

6.3. Provide the number of instances the RMO received a notice and/or copy of the PI that states the PI conforms to SDWT policies.

| SDWT | Prescribed Instrument |
|------|-----------------------|
| 0 | N/A |

6.4. Provide the number of inspections for prohibited activities

| Total Inspections for Prohibited Activities | Properties Inspected for Prohibited Activities | Properties Where Prohibited Activities Were Taking Place |
|---|--|--|
| 0 | 0 | 0 |

6.5. Provide the number of inspections for activities requiring a risk management plan

| Total Inspections for Activities Requiring an RMP | Total Properties Inspected Where an RMP is in Place | Properties Inspected that were in Contravention of their RMP |
|---|---|--|
| 1 | 1 | 0 |

6.6. RMO tools and resources evaluation

| Tool / Resource | | Comments and Suggestions |
|--|-------------------------------------|---|
| Source Protection Interactive Mapping Tool | <input checked="" type="checkbox"/> | Assists both Durham and area municipality in locating properties of interest and determining policy requirements. |
| Risk Management Official Forum | <input type="checkbox"/> | |
| Resource Catalogue / Campaign in a Box toolkit | <input checked="" type="checkbox"/> | Assisted in development of E&O materials. |

| | | |
|---|-------------------------------------|--|
| Education & Outreach webinar | <input checked="" type="checkbox"/> | Assisted in development of E&O materials. |
| Education & Outreach community of practice | <input type="checkbox"/> | |
| Guidance Materials (fact sheets, information bulletins) | <input checked="" type="checkbox"/> | Assisted in development of E&O materials. |
| MECP Training (e.g., RMO Certification, property entry) | <input checked="" type="checkbox"/> | Reference material |
| OMAFRA/OFEC information sessions | <input checked="" type="checkbox"/> | Assisted with development of agricultural materials and establishing dialogue. |
| Other: Please Specify: | <input checked="" type="checkbox"/> | Source Water Protection table of threats and circumstances tool aids in threat verification. |

6.7. Provide a list of SDWT. See appendix A for a detailed summary of SDWT by type.

| Municipality or Township | Zone | Score | Threat Type |
|--------------------------|--------|-------|---------------------|
| Uxville | WHPA-A | 10 | Waste Disposal Site |
| Uxville | WHPA-A | 10 | DNAPL |
| Uxville | WHPA-A | 10 | Organic Solvent |

7. Legislated Annual Reporting Requirements as per Section 81 Clean Water Act, 2006 and Section 65 O.Reg 287/07

7.1. Risk Management Plans Agreed to Under Section 58(5) of CWA

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.2. Risk Management Plans Established by Order Under Section 58(10) Of CWA

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.3. Risk Management Plans Established by Order Under Section 58(12) Of CWA

| # | Township | WHPA or IPZ | SDWT Activity | Reason for Refusal |
|---|----------|-------------|---------------|--------------------|
| 0 | - | - | - | - |

7.4. Risk Management Plans RMO Refused to Agree to or Establish Under Section 58(16) or Section 58(15) of CWA

| # | Township | WHPA or IPZ | SDWT Activity | Circumstances |
|---|----------|-------------|---------------|---------------|
| 0 | - | - | - | - |

7.5. Orders Issued by RMO Under Part IV of CWA

| # | Township | WHPA or IPZ | SDWT Activity | Circumstances |
|---|----------|-------------|---------------|---------------|
| 0 | - | - | - | - |

7.6. Notices Received from a Person Engaged in an Activity, Notifying RMO of Their Possession/Intent to Obtain Prescribed Instrument Under Section 61(2) & (7) Of CWA

| # | Township | WHPA or IPZ | SDWT Activity | Prescribed Instrument |
|---|----------|-------------|---------------|-----------------------|
| 0 | - | - | - | - |

7.7. Notices Issued by RMO Under Section 61(6) & (8) of CWA Notifying a Person Engaged in a SDWT Activity of the Termination of an Exemption Under Section 61(1)

| # | Township | WHPA or IPZ | SDWT Activity | Prescribed Instrument |
|---|----------|-------------|---------------|-----------------------|
| 0 | - | - | - | - |

7.8. Section 61 (1) Exemptions Granted

| # | Township | WHPA or IPZ | SDWT Activity | Prescribed Instrument |
|---|----------|-------------|---------------|-----------------------|
| 0 | - | - | - | - |

7.9. Inspections Carried Out Under a Risk Management Plan

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---|
| 1 | Uxville | WHPA-A | Waste Disposal Site, DNAPL, Organic Solvent |

7.10. Inspections Resulting in Non-Compliance with a Risk Management Plan

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.11. Inspections Conducted on Prohibited Activities

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.12. Cases Where Prohibited Activities Were Being Engaged in During Inspections

| Description of Circumstances |
|------------------------------|
| N/A |

7.13. Risk Assessments Submitted, Accepted and Not Accepted Under Section 60

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.14. Instances Where RMO Caused a Thing to be Done Under Section 64 of CWA

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.15. Prosecutions Made Under Section 106 of CWA

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.16. Prosecutions Made Under Section 106 of CWA Resulting in Conviction

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

8. Septic Re-Inspection Program

| | |
|----------------------|---|
| Item | Description |
| Required Inspections | Uxville (3) |
| Lead Authority | Greg Annis, Manager, Durham Region Environmental Health, Chief Building Official. |
| Inspection Protocol | A visual inspection is conducted on the property and the site is recorded by GPS then entered into a database. If a potential malfunction of the septic system is detected, then further inspection is conducted. |
| Inspection Progress | Re-inspections conducted in 2021. Due again in 2026. |

9. Source Protection Plan Policy Reporting Requirements

9.1. RMO Policy Reporting Requirements

| SDWT | Policy ID | Status | Details |
|----------------------------------|-----------|----------------|--|
| General | GEN-1 | In Progress | The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval. |
| Waste | WST-1 | Complete | One RMP negotiated to date to deal with disposal of waste oil and lubricants. Best management practices in place prior to RMP included safe handling, spill prevention and response and staff training. Property owner provided with source water overview to include in on site staff training. |
| Waste | WST-6 | Not Applicable | No PCB storage or disposal threats. |
| Agricultural Source Material | ASM-2 | Not Applicable | No ASM application threats. |
| Agricultural Source Material | ASM-4 | Not Applicable | No ASM storage threats. |
| Non-Agricultural Source Material | NASM-1 | Not Applicable | No NASM application threats. |
| Non-Agricultural Source Material | NASM-2 | Not Applicable | No NASM storage threats. |
| Livestock Grazing | LIV-1 | Not Applicable | No livestock grazing threats. |
| Livestock Grazing | LIV-3 | Not Applicable | No outdoor confinement or farm-animal yard threats. |
| Fertilizer | FER-2 | Not Applicable | No application of fertilizer threats. |

| | | | |
|-----------------|--------|----------------|---|
| Fertilizer | FER-3 | Not Applicable | No handling and storage of fertilizer threats. |
| Pesticide | PES-1 | Not Applicable | No application of pesticide threats. |
| Pesticide | PES-2 | Not Applicable | No handling and storage of pesticide threats. |
| Road Salt | SAL-1 | Not Applicable | No application of road salt threats. |
| Road Salt | SAL-2 | Not Applicable | No application of road salt threats. |
| Road Salt | SAL-7 | Not Applicable | No handling of road salts threats. |
| Snow Storage | SNO-1 | Not Applicable | No storage of snow threats. |
| Fuel | FUEL-3 | Not Applicable | No fuel threats. |
| DNAPL | DNAP-1 | Complete | One RMP negotiated to deal with potential DNAPLs. Best management practices in place prior to RMP included safe handling, spill prevention and response, and staff training. Property owner provided with source water overview to include in staff training. |
| Organic Solvent | OS-1 | Complete | One RMP negotiated to deal with organic solvents. Best management practices in place prior to RMP included safe handling, spill prevention and response, and staff training. Property owner provided with source water overview to include in staff training. |
| Recharge | REC-2 | Complete | No quantity threats identified. |

9.2. Municipality Policy Reporting Requirements

| SDWT | Policy ID | Status | Details |
|---------|-----------|----------------|--|
| General | GEN-1 | In Progress | The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval. |
| General | GEN-2 | Complete | One RMP established. Annual inspections to be conducted to ensure conformity. |
| General | GEN-5 | Complete | Cost of septic inspections was covered by the Region. Completed in 2021 and due again in 2026. |
| General | GEN-7 | Not Applicable | Only applicable in ICA. |
| General | GEN-8 | In Progress | Municipality has engaged and provided E&O materials to properties with significant threats. Low and moderate threats targeted for distribution in 2024. |
| Waste | WST-2 | Complete | Exempt wastes have not been found to date. |
| Sewage | SWG-1 | Complete | Septic inspection program completed in 2021. |
| Sewage | SWG-2 | Complete | E&O materials developed in collaboration with area municipalities. To be delivered as needed. |
| Sewage | SWG-6 | Complete | Regional council passed amendment to by-law #89-2003 requiring mandatory connection on October 23, 2019. |
| Sewage | SWG-7 | Not Applicable | Only applicable in ICA. |

| | | | |
|-----------------|--------|----------------|---|
| Fertilizer | FER-4 | Not Applicable | No fertilizer threats. |
| Pesticide | PES-4 | Not Applicable | No pesticide threats. |
| Road Salt | SAL-8 | Not Applicable | No significant road salt threats. |
| Fuel | FUEL-4 | Not Applicable | No fuel threats. |
| DNAPL | DNAP-2 | Complete | E&O materials developed in collaboration with area municipalities. To be delivered as needed. |
| Organic Solvent | OS-2 | Complete | E&O materials developed in collaboration with area municipalities. To be delivered as needed. |
| Lake Ontario | LO-G-3 | In Progress | Phase 1 of the Lake Ontario Water Quality Forecasting System has been completed. The system is currently operational, with data validation completed in 2022. Phase 2 work is currently underway which includes improvements to model calibration and tributary time of travel, as well as the incorporation of ECO lab and additional lake monitoring equipment. Cybersecurity and functional enhancements were made to the application in 2024 as part of the Phase 2 work. |
| Demand | DEM-4 | Complete | Water conservation plan finalized in April 2020. |
| Demand | DEM-5 | Complete | E&O materials developed in collaboration with area municipalities. To be delivered as needed. |
| Demand | DEM-9 | Complete | Water sources outside WHPA-Q1 to reduce quantity demand have been assessed. |
| Recharge | REC-3 | Complete | Screening tool developed to assist with property and threat verification. E&O materials developed in collaboration with local municipalities. Incentives have been reviewed and determined they are not needed. |

9.3. Planning Approval Authority Policy Reporting Requirements

| SDWT | Policy ID | Status | Details |
|---------------------|-----------|-------------|---|
| Waste Disposal Site | WST-5 | In Progress | The Durham Regional Official Plan included all relevant source protection land use planning policies in 2024. As of January 1, 2025, Durham Region is no longer a planning approval authority. Implementation of the Land Use Planning policies of the Source Protection Plans will be the responsibility of the area municipalities. |
| Sewage | SWG-3 | In Progress | |
| Sewage | SWG-4 | In Progress | |
| Sewage | SWG-9 | In Progress | |
| Sewage | SWG-12 | In Progress | |
| Sewage | SWG-14 | In Progress | |
| Sewage | SWG-16 | In Progress | |
| Sewage | SWG-18 | In Progress | |
| Road Salt | SAL-3 | In Progress | |
| Demand | DEM-2 | In Progress | |
| Recharge | REC-1 | In Progress | |

Appendix A

| Significant Drinking Water Threats | A | B | C | D | Remaining SDWTs to be Addressed (A+B-C=D) |
|---|-----------|---|----------|----------|---|
| The establishment, operation, or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> . | 3 | | 2 | 1 | 0 |
| The establishment, operation or maintenance of a system that collects, stores, transmits, treats, or disposes of sewage. | 6 | | | 6 | 0 |
| The application of agricultural source material to land. | | | | | |
| The storage of agricultural source material | | | | | |
| The management of agricultural source material | | | | | |
| The application of non-agricultural source material to land | | | | | |
| The handling and storage of non-agricultural source material | | | | | |
| The application of commercial fertilizer to land | | | | | |
| The handling and storage of commercial fertilizer | | | | | |
| The application of pesticide to land | | | | | |
| The handling and storage of pesticide | | | | | |
| The application of road salt | | | | | |
| The handling and storage of road salt | | | | | |
| The storage of snow | | | | | |
| The handling and storage of fuel | 1 | | 1 | | 0 |
| The handling and storage of a dense non-aqueous phase liquid | 3 | | 2 | 1 | 0 |
| The handling and storage of an organic solvent | 1 | | | 1 | 0 |
| The management of runoff that contains chemicals used in the de-icing of aircraft | | | | | |
| The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard O. Reg. 385/08, Section 3. | | | | | |
| Water taking from an aquifer without returning the water to the same aquifer or surface water body | | | | | |
| Reducing recharge of an aquifer | | | | | |
| Total | 14 | | 5 | 9 | 0 |

A = Original estimate of SDWT in the Approved Assessment Report

B = Additional SDWT identified after SPP approved as a result of field verification

C = SDWT 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 at the location

D = SDWT addressed through policy implementation.

Attachment #2 to Report #2025-INFO-11

The Regional Municipality of Durham

Risk Management Official Annual Report

South Georgian Bay Lake Simcoe Source Protection Region

January 1, 2024 – December 31, 2024

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Appendix A 12

1. List of Abbreviations and Acronyms

| | |
|--------|---|
| AR | Assessment Report |
| ASM | Agricultural Source Material |
| BMP | Best Management Practice |
| CA | Conservation Authority |
| CWA | Clean Water Act, 2006 |
| DNAPL | Dense Non-Aqueous Phase Liquid |
| E&O | Education and Outreach |
| ID | Identification |
| IPZ | Intake Protection Zone |
| MECP | Ministry of the Environment, Conservation, and Parks |
| OFEC | Ontario Farm Environmental Coalition |
| OMAFRA | Ontario Ministry of Agriculture, Food and Rural Affairs |
| PI | Prescribed Instrument |
| RMI | Risk Management Inspector |
| RMM | Risk Management Measures |
| RMO | Risk Management Official |
| RMP | Risk Management Plan |
| SDWT | Significant Drinking Water Threat |
| SPA | Source Protection Authority |
| WHPA | Wellhead Protection Area |

2. Report Information

| | |
|-----------------------------|---------------------------------------|
| Name of Municipality | The Regional Municipality of Durham |
| Source Protection Authority | South Georgian Bay Lake Simcoe |
| Water Supply Systems | Cannington, Sunderland, Uxbridge |
| SPA Staff Contact | Bill Thompson |
| Submitted by | Tavis Nimmo, Risk Management Official |
| Date Submitted | January 31, 2025 |

3. Annual Report

This annual report is provided in accordance with Section 81 of the *Clean Water Act, 2006*. It outlines the activities undertaken by the Regional Municipality of Durham in 2024 that were required by legislation as well as a summary of progress to date in implementing the Source Protection Plan.

4. Risk Management Officials, Inspectors and Training

RMO/RMI require renewal course every five years.

| Name | Title | RMO/RMI Training Date | Property Entry Training Date |
|------------------|---------------------------|-----------------------|------------------------------|
| Shelly Cuddy | Risk Management Official | September 2023 | August 2023 |
| Tavis Nimmo | Risk Management Official | December 2021 | December 2021 |
| Colin Hall | Risk Management Inspector | September 2022 | September 2022 |
| Maureen Bianchet | Risk Management Inspector | November 2024 | February 2024 |
| Ashley Brettell | Risk Management Inspector | November 2024 | November 2024 |
| Carly Graham | Risk Management Inspector | November 2022 | November 2022 |

5. Risk Management Office

5.1. Provide an overview of work planned for 2025.

| Item | Description |
|---|---|
| Threat Verification | Threat verification will be completed once the new wellhead protection area and issue contributing area maps receive Provincial approval. |
| RMPs | Risk management plans will be negotiated, if required once the new wellhead protection area and issue contributing area maps receive Provincial approval. |
| E&O | Staff will continue distributing education and outreach materials in areas with low and moderate threat levels. |
| Application Review and Section 59 Notices | Continue to review Planning Act/Building Permit applications. |
| Incentives | Reviewed and determined there is no need for incentives in this period. |

6. Annual Progress Report as per Section 46(1) Clean Water Act, 2006 and Section 52(1) O.Reg 287/07

6.1. Provide an update for applicable RMO implementer policies

| SDWT | Policy Number | Status | Existing Percent Complete |
|---------------------|--------------------------------|-------------|---------------------------|
| Waste Disposal Site | WAST(b)-1,2 | Complete | 100 |
| Sewage | SEWG(b)-1 | Complete | 100 |
| Agriculture | ASM(App)-1,2 ASM(Store)-1,2 | In Progress | 75 |
| Fertilizer | FERT(App)-1 FERT(H&S)-1,2 | Complete | 100 |
| Pesticide | PEST(App)-1 PEST(H&S)-1,2 | In Progress | 75 |
| Fuel | FUEL-1,2 | Complete | 100 |
| DNAPL | DNAPL-1,2 | Complete | 100 |
| Organic Solvents | SOLV-1 | Complete | 100 |
| Livestock Grazing | LSTOCK-1,2,3 | Complete | 100 |
| Restricted Land Use | RLU-1 | Complete | 100 |

6.2. Provide the number and type of Section 59 notices issued. The risk management office reviews planning/building applications in vulnerable areas to determine if potential land use activities pose a threat to the quality or quantity of municipal drinking water sources.

| Number of Section 59 Notices Where no Prohibition or no RMP Required | Number of Section 59 Notices Where RMP Required |
|--|---|
| 1 | 0 |

6.3. Provide the number and type of any prescribed instrument the RMO received in order to conform to a SDWT policy.

| SDWT | Prescribed Instrument |
|------|-----------------------|
| 0 | N/A |

6.4. Provide the number of inspections for prohibited activities

| Total Inspections for Prohibited Activities | Properties Inspected for Prohibited Activities | Properties Where Prohibited Activities Were Taking Place |
|---|--|--|
| 0 | 0 | 0 |

6.5. Provide the number of inspections for activities requiring a risk management plan

| Total Inspections for Activities Requiring an RMP | Total Properties Inspected Where an RMP is in Place | Properties Inspected that were in Contravention of their RMP |
|---|---|--|
| 1 | 1 | 0 |

6.6. RMO tools and resources evaluation

| Tool / Resource | | Comments and Suggestions |
|---|-------------------------------------|---|
| Source protection Interactive Mapping Tool | <input checked="" type="checkbox"/> | Assists both Durham and area municipality in locating properties impacted by source water protection. |
| Risk Management Official Forum | <input type="checkbox"/> | |
| Resource Catalogue / Campaign in a Box toolkit | <input checked="" type="checkbox"/> | Assisted in development of E&O materials. |
| Education & Outreach webinar | <input checked="" type="checkbox"/> | Assisted in development of E&O materials. |
| Education & Outreach community of practice | <input type="checkbox"/> | |
| Guidance Materials (fact sheets, information bulletins) | <input checked="" type="checkbox"/> | Assisted in development of E&O materials. |
| MECP Training (e.g., RMO Certification, property entry) | <input checked="" type="checkbox"/> | Reference material |
| OMAFRA/OFEC information sessions | <input checked="" type="checkbox"/> | Assisting with development of agricultural materials and establishing dialogue |
| Other: Please Specify: | <input checked="" type="checkbox"/> | Source Water Protection table of threats and circumstances tool aids in threat verification. |

7. Legislated Annual Reporting Requirements as per section 81 Clean Water Act, 2006 and section 65 O.Reg 287/07

7.1. Risk Management Plans Agreed to Under Section 58(5) of CWA

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.2. Risk Management Plans Established by Order Under Section 58(10) Of CWA

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.3. Risk Management Plans Established by Order Under Section 58(12) Of CWA

| # | Township | WHPA or IPZ | SDWT Activity | Reason for Refusal |
|---|----------|-------------|---------------|--------------------|
| 0 | - | - | - | - |

7.4. Risk Management Plans RMO Refused to Agree to or Establish Under Section 58(16) or Section 58(15) of CWA

| # | Township | WHPA or IPZ | SDWT Activity | Circumstances |
|---|----------|-------------|---------------|---------------|
| 0 | - | - | - | - |

7.5. Orders Issued by RMO Under Part IV of CWA

| # | Township | WHPA or IPZ | SDWT Activity | Circumstances |
|---|----------|-------------|---------------|---------------|
| 0 | - | - | - | - |

7.6. Notices Received from a Person Engaged in an Activity, Notifying RMO of Their Possession/Intent to Obtain Prescribed Instrument Under Section 61(2) & (7) Of CWA

| # | Township | WHPA or IPZ | SDWT Activity | Prescribed Instrument |
|---|----------|-------------|---------------|-----------------------|
| 0 | - | - | - | - |

7.7. Notices Issued by RMO Under Section 61(6) & (8) of CWA Notifying a Person Engaged in a SDWT Activity of the Termination of an Exemption Under Section 61(1)

| # | Township | WHPA or IPZ | SDWT Activity | Prescribed Instrument |
|---|----------|-------------|---------------|-----------------------|
| 0 | - | - | - | - |

7.8. Section 61 (1) Exemptions Granted

| # | Township | WHPA or IPZ | SDWT Activity | Prescribed Instrument |
|---|----------|-------------|---------------|-----------------------|
| 0 | - | - | - | - |

7.9. Inspections Carried Out Under a Risk Management Plan

| # | Township | WHPA or IPZ | SDWT Activity |
|---|------------|-------------|---|
| 1 | Cannington | WHPA-B | Waste Disposal Site, DNAPL, Organic Solvent |

7.10. Inspections Resulting in Non-Compliance with a Risk Management Plan

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.11. Inspections Conducted on Prohibited Activities

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.12. Cases Where Prohibited Activities Were Being Engaged in During Inspections

| Description of Circumstances |
|------------------------------|
| N/A |

7.13. Risk Assessments Submitted, Accepted and Not Accepted Under Section 60

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.14. Instances Where RMO Caused a Thing to be Done Under Section 64 of CWA

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.15. Prosecutions Made Under Section 106 of CWA

| Description |
|-------------|
| N/A |

7.16. Prosecutions Made Under Section 106 of CWA Resulting in Conviction

| Description |
|-------------|
| N/A |

8. Septic System Inspection Program

| | |
|----------------------|---|
| Item | Description |
| Required Inspections | Uxbridge (1) Sunderland (2) Cannington (17) |
| Lead Authority | Greg Annis, Manager, Durham Region Environmental Health, Chief Building Official. |
| Inspection Protocol | A visual inspection is conducted on the property and the site is recorded by GPS then entered into a database. If a potential malfunction of the septic system is detected, then further inspection is conducted. |
| Inspection Progress | Re-inspections conducted in 2021. Due again in 2026. |

9. Source Protection Plan Policy Reporting Requirements

9.1. RMO Policy Reporting Requirements

| SDWT | Policy Number | Status | Details |
|----------------------------------|---------------|----------------|---|
| Waste Disposal Site | WAST(b)- 1 | Complete | One RMP negotiated to date to deal with disposal of waste oil and lubricants. Best management practices in place prior to RMP included safe handling, spill prevention and response and staff training. Property owner provided with source water overview in order to include in on site staff training. |
| Waste Disposal Site | WAST(b)- 2 | Not Applicable | No future threats seen through planning/building permit application. |
| Sewage | SEWG(b) -1 | Not Applicable | No SDWTs requiring RMP in 2024. |
| Agricultural Source Material | ASM(App)-1 | In Progress | Threat verification to be completed in 2025. RMPs to be negotiated in 2025 pending approval of the new WHPA and ICA by the Province. |
| Agricultural Source Material | ASM(App)-2 | Not Applicable | No future threats. |
| Agricultural Source Material | ASM(Store)-1 | Not Applicable | No existing storage threats. |
| Agricultural Source Material | ASM(Store)-2 | Not Applicable | No future storage threats. |
| Non-agricultural Source Material | NASM(App)-1 | Not Applicable | No NASM threats. |

| SDWT | Policy Number | Status | Details |
|----------------------------------|---------------|----------------|---|
| Non-agricultural Source Material | NASM(App)-2 | Not Applicable | |
| Non-agricultural Source Material | NASM(H&S)-1 | Not Applicable | |
| Non-agricultural Source Material | NASM(H&S)-2 | Not Applicable | |
| Fertilizer | FERT(App)-1 | Not Applicable | No fertilizer threats. |
| Fertilizer | FERT(H&S)-1 | Not Applicable | No handling and storage threats. |
| Fertilizer | FERT(H&S)-2 | Not Applicable | |
| Pesticides | PEST(App)-1 | In Progress | RMPs to be negotiated in 2025 pending approval of the new WHPA and ICA by the Province. |
| Pesticides | PEST(H&S)-1 | Not Applicable | No handling and storage threats. |
| Pesticides | PEST(H&S)-2 | Not Applicable | |
| Road Salt | SALT(App)-1 | Not Applicable | No application threats in vulnerable areas. |
| Road Salt | SALT(H&S)-1 | Not Applicable | No handling and storage threats. |
| Snow Storage | SNOW-1 | Not Applicable | No snow threats. |
| Snow Storage | SNOW-2 | Not Applicable | No snow threats. |
| Fuel | FUEL-1 | Complete | No fuel threats found through verification efforts. |
| Fuel | FUEL-2 | Not Applicable | No threats found in 2024. |
| Dense Non-Aqueous Phase Liquids | DNAPL-1 | Complete | No DNAPL threats remain. |
| Dense Non-Aqueous Phase Liquids | DNAPL-2 | Not Applicable | No threats found in 2024. |
| Organic Solvents | SOLV-1 | Complete | No organic solvent threats remain. |
| Livestock Grazing | LSTOCK-1 | In Progress | Threat verification to be completed in 2025. RMPs to be negotiated in 2025 pending approval of the new WHPA and ICA by the Province |

| SDWT | Policy Number | Status | Details |
|---------------------|---------------|----------------|---|
| Livestock Grazing | LSTOCK-2 | Not Applicable | No outdoor confinement areas or farm animal yard threats. |
| Livestock Grazing | LSTOCK-3 | Not Applicable | No outdoor confinement areas or farm animal yard threats. |
| Restricted Land Use | RLU-1 | In Progress | The Durham Regional Official Plan included all relevant source protection land use planning policies in 2024. As of January 1, 2025, Durham Region is no longer a planning approval authority. Implementation of the Land Use Planning policies of the Source Protection Plans will be the responsibility of the area municipalities. |

9.2. Municipality Policy Reporting Requirements

| SDWT | Policy Number | Status | Details |
|---------------------|---------------|----------------|---|
| Waste Disposal Site | WAST(b)- 5 | Complete | The Region will continue to promote the safe disposal of household hazardous waste material. |
| Sewage | SEWG(b) -5 | Complete | Durham Region Sewer Use By-law #55-2013 does not permit cross connections. Durham also has no combined sewer overflows. |
| Sewage | SEWG(c)- 3 | Complete | Region council passed amendment to by-law #89-2003 requiring mandatory connection on October 23, 2019 |
| Sewage | SEWG(c)- 4 | Not Applicable | Area municipality responsibility. |
| Road Salt | SALT(H&S)- 2 | Not Applicable | No handling and storage threats. |
| Fuel | FUEL-4 | Not Applicable | Area municipality responsibility through property standards by-law. |
| Organic Solvents | SOLV-2 | Complete | No threats found in 2024. |
| Demand | DEMD-3 | Complete | Water conservation plan finalized in April 2020. |
| E&O | EDU-11 | Complete | Signage installed prior to plan approval. |
| Incentive | INCENT- 3 | Not Applicable | Area municipality responsibility. |
| Incentive | INCENT- 4 | Not Applicable | Area municipality responsibility. |

9.3. Planning Approval Authority Policy Reporting Requirements

| SDWT | Policy Number | Status | Details |
|-------------------|---------------|-------------|---|
| Land Use Planning | LUP-1 | In Progress | The Durham Regional Official Plan included all relevant source protection land use planning policies in 2024. As of January 1, 2025, Durham Region is no longer a planning approval authority. Implementation of the Land Use Planning policies of the Source Protection Plans will be the responsibility of the area municipalities. |
| | LUP-2 | In Progress | |
| | LUP-3 | In Progress | |
| | LUP-4 | In Progress | |
| | LUP-5 | In Progress | |
| | LUP-6 | In Progress | |
| | LUP-7 | In Progress | |
| | LUP-8 | In Progress | |
| | LUP-10 | In Progress | |
| | LUP-11 | In Progress | |
| | LUP-12 | In Progress | |
| | LUP-13 | In Progress | |
| | LUP-15 | In Progress | |

Appendix A

| Significant Drinking Water Threats | A | B | C | D | Remaining SDWTs to be Addressed (A+B-C-D) |
|---|-----------|-----------|-----------|-----------|---|
| The establishment, operation, or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> . | 1 | | | 1 | 0 |
| The establishment, operation or maintenance of a system that collects, stores, transmits, treats, or disposes of sewage. | 21 | 2 | 2 | 21 | 0 |
| The application of agricultural source material to land. | 11 | 0 | 6 | 2 | 3 |
| The storage of agricultural source material | | | | | |
| The management of agricultural source material | | | | | |
| The application of non-agricultural source material to land | | | | | |
| The handling and storage of non-agricultural source material | | | | | |
| The application of commercial fertilizer to land | | 2 | 2 | | 0 |
| The handling and storage of commercial fertilizer | | | | | |
| The application of pesticide to land | 9 | 0 | 5 | 2 | 2 |
| The handling and storage of pesticide | | | | | |
| The application of road salt | | | | | |
| The handling and storage of road salt | | | | | |
| The storage of snow | | | | | |
| The handling and storage of fuel | 27 | 1 | 5 | 23 | 0 |
| The handling and storage of a dense non-aqueous phase liquid | 15 | 1 | 15 | 1 | 0 |
| The handling and storage of an organic solvent | 1 | 3 | 3 | 1 | 0 |
| The management of runoff that contains chemicals used in the de-icing of aircraft | | | | | |
| The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard O. Reg. 385/08, Section 3. | | 3 | 1 | | 2 |
| Water taking from an aquifer without returning the water to the same aquifer or surface water body | | | | | |
| Reducing recharge of an aquifer | | | | | |
| Total | 85 | 12 | 39 | 51 | 7 |

A = Original estimate of SDWT in the Approved Assessment Report

B = Additional SDWT identified after SPP approved as a result of field verification

C = SDWT 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 at the location

D = SDWT addressed through policy implementation

Attachment #3 to Report #2025-INFO-11

The Regional Municipality of Durham

Risk Management Official Annual Report

Trent Conservation Coalition Source Protection Region

January 1, 2024 – December 31, 2024

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Appendix A 13

1. List of Abbreviations and Acronyms

| | |
|--------|---|
| AR | Assessment Report |
| BMP | Best Management Practices |
| CA | Conservation Authority |
| CWA | Clean Water Act, 2006 |
| DNAPL | Dense Non-Aqueous Phase Liquid |
| E&O | Education and Outreach |
| ID | Identification |
| IPZ | Intake Protection Zone |
| MECP | Ministry of the Environment, Conservation, and Parks |
| OFEC | Ontario Farm Environmental Coalition |
| OMAFRA | Ontario Ministry of Agriculture, Food and Rural Affairs |
| PI | Prescribed Instrument |
| RMI | Risk Management Inspector |
| RMM | Risk Management Measures |
| RMO | Risk Management Official |
| RMP | Risk Management Plan |
| SDWT | Significant Drinking Water Threat |
| SPA | Source Protection Authority |
| WHPA | Wellhead Protection Area |

2. Report Information

| | |
|-----------------------------|---|
| Name of Municipality | The Regional Municipality of Durham |
| Source Protection Authority | Trent Conservation Coalition Source Protection Region |
| Water Systems | Blackstock, Greenbank, Port Perry, Orono, Newcastle |
| SPA Staff Contact | Keith Taylor |
| Submitted By | Tavis Nimmo, Risk Management Official |
| Date Submitted | January 31, 2025 |

3. Annual Report

This annual report is provided in accordance with Section 81 of the *Clean Water Act, 2006*. It outlines the activities undertaken by the Regional Municipality of Durham in 2024 that were required by legislation as well as a summary of progress to date in implementing the Source Protection Plan.

4. Risk Management Officials, Inspectors and Training

RMO/RMI require renewal course every five years.

| Name | Title | RMO/RMI Training Date | Property Entry Training Date |
|------------------|---------------------------|-----------------------|------------------------------|
| Shelly Cuddy | Risk Management Official | September 2023 | August 2023 |
| Tavis Nimmo | Risk Management Official | December 2021 | December 2021 |
| Colin Hall | Risk Management Inspector | September 2022 | September 2022 |
| Maureen Bianchet | Risk Management Inspector | November 2024 | February 2024 |
| Ashley Brettell | Risk Management Inspector | November 2024 | November 2024 |
| Carly Graham | Risk Management Inspector | November 2022 | November 2022 |
| Shelly Cuddy | Risk Management Official | September 2023 | August 2023 |

5. Risk Management Office

5.1. Provide an overview of work planned for 2025.

| Item | Description |
|---|---|
| Threat Verification | Threat verification complete. |
| RMPs | RMPs complete. |
| E&O | Staff will continue distributing Education and Outreach materials in areas with low and moderate threat levels. |
| Application Review and Section 59 Notices | Continue to review Planning Act/Building Permit applications. |
| Incentives | Reviewed opportunities and no incentives are required due to completion of RMPs. |

6. Annual Progress Report as per Section 46(1) Clean Water Act, 2006 and Section 52(1) O.Reg 287/07

6.1. Provide an update for applicable policy implementation

| SDWT Type | Policy ID | Status | Existing Percent Complete |
|----------------|--------------------|----------|---------------------------|
| Sewage Systems | S-9; S-10 | Complete | 100 |
| Agriculture | A-1(1-3); A-4(1-3) | Complete | 100 |
| Fuel | F-1; F-2(1-2) | Complete | 100 |

6.2. Provide the number and type of Section 59 notices issued. The risk management office reviews planning/building applications in vulnerable areas to determine if potential land use activities pose a threat to the quality or quantity of municipal drinking water sources.

| Number of Section 59 Notices Where No Prohibition or No RMP Required | Number of Section 59 Notices Where RMP Required |
|--|---|
| 0 | 0 |

6.3. Provide the number and type of prescribed instrument the RMO received in order to conform to a SDWT policy.

| SDWT | Prescribed Instrument |
|------|-----------------------|
| 0 | N/A |

6.4. Provide the number of inspections for prohibited activities

| Total Inspections for Prohibited Activities | Properties Inspected for Prohibited Activities | Properties Where Prohibited Activities Were Taking Place |
|---|--|--|
| 0 | 0 | 0 |

6.5. Provide the number of inspections for activities requiring a risk management plan

| Total Inspections for Activities Requiring an RMP | Total Properties Inspected Where an RMP is in Place | Properties Inspected that were in Contravention of their RMP |
|---|---|--|
| 5 | 5 | 0 |

6.6. RMO tools and resources evaluation

| Tool / Resource | | Comments and Suggestions |
|--|-------------------------------------|---|
| Source protection Interactive Mapping Tool | <input checked="" type="checkbox"/> | Assists both Durham and area municipality in locating properties impacted by source water protection. |
| Risk Management Official Forum | <input type="checkbox"/> | |
| Resource Catalogue / Campaign in a Box toolkit | <input checked="" type="checkbox"/> | Assisted in development of E&O materials. |
| Education & Outreach webinar | <input checked="" type="checkbox"/> | Assisted in development of E&O materials. |
| Education & Outreach community of practice | <input type="checkbox"/> | |

| | | |
|---|-------------------------------------|--|
| Guidance Materials (fact sheets, information bulletins) | <input checked="" type="checkbox"/> | Assisted in development of E&O materials. |
| MECP Training (e.g., RMO Certification, property entry) | <input checked="" type="checkbox"/> | Reference Material |
| OMAFRA/OFEC information sessions | <input checked="" type="checkbox"/> | Assisted with development of agricultural materials and establishing dialogue. |
| Other: Please Specify: | <input checked="" type="checkbox"/> | Source Water Protection table of threats and circumstances tool aids in threat verification. |

7. Legislated Annual Reporting Requirements as per Section 81 Clean Water Act, 2006 and Section 65 O.Reg 287/07

7.1. Risk Management Plans to Date Agreed to Under Section 58(5) of CWA

| # | Township | WHPA or IPZ | SDWT Activity |
|---|------------|-------------|--|
| 1 | Port Perry | WHPA-A | Fuel Storage |
| 2 | Port Perry | WHPA-A | Use of Land for Livestock Grazing |
| 3 | Newcastle | IPZ-2 | Fuel Storage |
| 4 | Greenbank | WHPA-A | ASM Application, Fertilizer Application |
| 5 | Greenbank | WHPA-A | Use of Land for Livestock Grazing |
| 6 | Orono | WHPA-A | Pesticide Application |
| 7 | Greenbank | WHPA-A | ASM Application, Fertilizer Application, Pesticide Application |
| 8 | Greenbank | WHPA-A | Fertilizer Application |

7.2. Risk Management Plans Established by Order Under Section 58(10) Of CWA

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.3. Risk Management Plans Established by Order Under Section 58(12) Of CWA

| # | Township | WHPA or IPZ | SDWT Activity | Reason for Refusal |
|---|----------|-------------|---------------|--------------------|
| 0 | - | - | - | - |

7.4. Risk Management Plans RMO Refused to Agree to or Establish Under Section 58(16) or Section 58(15) of CWA

| # | Township | WHPA or IPZ | SDWT Activity | Circumstances |
|---|----------|-------------|---------------|---------------|
| 0 | - | - | - | - |

7.5. Orders Issued by RMO Under Part IV of CWA

| # | Township | WHPA or IPZ | SDWT Activity | Circumstances |
|---|----------|-------------|---------------|---------------|
| 0 | - | - | - | - |

7.6. Notices Received from a Person Engaged in an Activity, Notifying RMO of Their Possession/Intent to Obtain Prescribed Instrument Under Section 61(2) & (7) Of CWA

| # | Township | WHPA or IPZ | SDWT Activity | Prescribed Instrument |
|---|----------|-------------|---------------|-----------------------|
| 0 | - | - | - | - |

7.7. Notices Issued by RMO Under Section 61(6) & (8) of CWA Notifying a Person Engaged in a SDWT Activity of the Termination of an Exemption Under Section 61(1)

| # | Township | WHPA or IPZ | SDWT Activity | Prescribed Instrument |
|---|----------|-------------|---------------|-----------------------|
| 0 | - | - | - | - |

7.8. Section 61 (1) Exemptions Granted

| # | Township | WHPA or IPZ | SDWT Activity | Prescribed Instrument |
|---|----------|-------------|---------------|-----------------------|
| 0 | - | - | - | - |

7.9. Inspections Carried Out Under a Risk Management Plan

| # | Township | WHPA or IPZ | SDWT Activity |
|---|------------|-------------|--|
| 1 | Port Perry | WHPA-A | Fuel |
| 2 | Port Perry | WHPA-A | Livestock Grazing. No response. Staff will continue inspections efforts during first quarter of 2025. |
| 3 | Newcastle | IPZ-2 | Fuel. |
| 4 | Greenbank | WHPA-A | ASM Application, Fertilizer Application |
| 5 | Greenbank | WHPA-A | Livestock Grazing |
| 6 | Orono | WHPA-A | Pesticide Application. No response. Staff will continue inspection efforts during first quarter of 2025. |
| 7 | Greenbank | WHPA-A | ASM Application, Fertilizer Application, Pesticide Application. No response. Staff will continue inspection efforts during first quarter of 2025 |
| 8 | Greenbank | WHPA-A | Fertilizer Application. No response. Staff will continue inspection efforts during first quarter of 2025 |

7.10. Inspections Resulting in Non-Compliance with a Risk Management Plan

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.11. Inspections Conducted on Prohibited Activities

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.12. Cases Where Prohibited Activities Were Being Engaged in During Inspections

| Description of Circumstances |
|------------------------------|
| N/A |

7.13. Risk Assessments Submitted, Accepted and Not Accepted Under Section 60

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.14. Instances Where RMO Caused a Thing to be Done Under Section 64 of CWA

| # | Township | WHPA or IPZ | SDWT Activity |
|---|----------|-------------|---------------|
| 0 | - | - | - |

7.15. Prosecutions Made Under Section 106 of CWA

| |
|-------------|
| Description |
| N/A |

7.16. Prosecutions Made Under Section 106 of CWA Resulting in Conviction

| |
|-------------|
| Description |
| N/A |

8. Septic System Inspection Program

| | |
|----------------------|---|
| Item | Description |
| Required Inspections | Blackstock (5) Greenbank (17) Port Perry (3) |
| Lead Authority | Greg Annis, Manager, Durham Region Environmental Health, Chief Building Official. |
| Inspection Protocol | A visual inspection is conducted on the property and the site is recorded by GPS then entered into a database. If a potential malfunction of the septic system is detected, then further inspection is conducted. |
| Inspection Progress | Re-inspections conducted in 2021. Due again in 2026. |

9. Source Protection Plan Reporting Requirements

9.1. RMO Reporting Requirements

| Type | Policy No. | Status | Details |
|-------------|------------|----------------|--|
| General | G-8(1) | Complete | Implementation of source protection plan and negotiation of RMPs complete. |
| General | G-8(2) | Complete | Prioritization and negotiation of RMPs complete. |
| General | G-8(3) | Complete | The miscellaneous provisions required by this policy have been established in the RMP process. |
| Sewage | S-9 | Complete | |
| Sewage | S-10 | Not Applicable | Section 59 screening tool will be used for future threat verification. |
| Agriculture | A-1(1) | Complete | RMPs complete. |
| Agriculture | A-1(2) | Complete | Applicable prescribed instruments will be considered, as appropriate. |
| Agriculture | A-1(3) | Not Applicable | No handling and storage of pesticide threats present. |
| Agriculture | A-4(1) | Not Applicable | No future threats. |
| Agriculture | A-4(2) | Not Applicable | No future threats. |
| Agriculture | A-4(3) | Not Applicable | No future threats. |
| Fuel | F-1 | Not Applicable | No future threats. |
| Fuel | F-2(1) | Complete | Fuel threat RMPs have been negotiated and established. |

| Type | Policy No. | Status | Details |
|------------------------|------------|----------------|--|
| Fuel | F-2(2) | Complete | Annual inspection required as part of negotiated RMP. |
| Road Salt | R-1(1) | Not Applicable | No road salt threats. |
| Road Salt | R-1(2) | Not Applicable | No road salt application threats. |
| Road Salt | R-5 | Not Applicable | No road salt storage threats. |
| Road Salt | R-6 | Not Applicable | No road salt storage threats. |
| Waste Disposal Site | W-3 | Not Applicable | No waste disposal site threats. |
| Waste Disposal Site | W-4(1) | Not Applicable | No waste disposal site threats. |
| Waste Disposal Site | W-4(2) | Not Applicable | No waste disposal site threats. |
| DNAPL | D-1 | Not Applicable | No DNAPL threats. |
| DNAPL | D-2 | Not Applicable | No DNAPL threats. |
| DNAPL | D-3(1) | Not Applicable | No DNAPL threats. |
| DNAPL | D-3(2) | Not Applicable | No DNAPL threats. |
| NASM | N-2 | Not Applicable | No NASM application, storage or handling threats. |
| NASM | N-3 | Not Applicable | No NASM application, storage or handling threats. |
| Snow Storage | O-1(3) | Not Applicable | No snow storage threats. |
| Snow Storage | O-2 | Not Applicable | No snow storage threats. |
| Aquaculture | Q-1 | Not Applicable | No aquaculture threats. |
| Aquaculture | Q-2 | Not Applicable | No aquaculture threats. |
| Aircraft De-icing | P-1(1) | Not Applicable | No De-icing threats. |
| Aircraft De-icing | P-1(4) | Not Applicable | No De-icing threats. |
| Monitoring for Nitrate | I-1 | Not Applicable | Blackstock Well 1 decommissioned to eliminate nitrate issue. Groundwater from MW8 continues to be monitored for nitrates, results are listed in the annual water quality report. |

9.2. Municipality Reporting Requirements

| Type | Policy No. | Status | Details |
|---------|------------|----------------|--|
| General | G-3(1) | Not Applicable | No properties purchased in 2024. |
| General | G-5(1) | Complete | Source water overview materials developed in collaboration with area municipalities. Additional targeted material developed to address low and moderate threats. E&O policy. |

| Type | Policy No. | Status | Details |
|--------------------------|------------|----------------|--|
| General | G-5(2) | Complete | Source water overview materials developed in collaboration with area municipalities. Additional targeted material developed to address low and moderate threats. |
| General | G-5(3) | Complete | Durham taking lead role in E&O. |
| General | G-5(4) | Complete | Durham taking lead role in E&O. |
| General | G-5(5) | Complete | E&O program continues to be developed, existing materials include fact sheets and BMPs to eliminate threats to drinking water, this includes existing and future fuel threats. |
| General | G-5(6) | Complete | Targeted materials developed. Materials include fact sheets and BMPs to eliminate threats to drinking water; this includes existing and future fuel threats. |
| General | G-6(3) | Complete | Signs installed prior to plan approval. |
| General | G-11(1) | Complete | All emergency response plans updated. |
| Sewage | S-1(1) | Complete | Septic inspections completed in 2021. Due again in 2026. |
| Sewage | S-4(1) | Complete | Regional council passed amendment to by-law #89-2003 requiring mandatory connection on October 23, 2019. |
| Sewage | S-6(1) | Complete | Emergency response plan updated. |
| Sewage | S-6(3) | Complete | Maintenance and asset management activities have been assessed and completed. |
| Sewage | S-8(2) | Not Applicable | Area municipality responsible for stormwater management. |
| Snow Storage | O-1(1) | Not Applicable | No snow storage threats. |
| Snow Storage | O-1(2) | Not Applicable | No snow storage threats. |
| Transportation Corridors | OT-1(1) | Complete | Spill response plan updated. |
| Transportation Corridors | OT-1(2) | Complete | Response plan reviewed and updated as needed annually. |
| Transport Pathways | OT-2(1) | Complete | Targeted materials developed. Materials include fact sheets and BMPs to eliminate threats to drinking water. |
| Transport Pathways | OT-2(2) | Complete | Regional council passed amendment to by-law #89-2003 to eliminate transport pathways on October 23, 2019. |
| Pipeline | L-2(8) | Complete | Spills response plan located at all plants and maintenance depots. Also available online in the Regions Integrated Management System. Includes notification of all applicable parties in the event of a spill. |

| | | | |
|-----------------------|---------|----------|--|
| Pipeline | L-2(9) | Complete | Spills response for pipeline rupture updated to include source water protection. |
| Pipeline | L-2(10) | Complete | No activation of emergency response plan in 2024. |
| Pipeline | L-2(11) | Complete | Emergency response plans reviewed annually and updated as needed. |
| Water Quantity Demand | Y-1(6) | Complete | Water conservation plan finalized in April 2020. |

9.3. Planning Approval Authority Reporting Requirements

| Type | Policy No. | Status | Details |
|----------------|------------|-------------|---|
| General | G-7(2) | In Progress | The Durham Regional Official Plan included all relevant source protection land use planning policies in 2024. As of January 1, 2025, Durham Region is no longer a planning approval authority. Implementation of the Land Use Planning policies of the Source Protection Plans will be the responsibility of the area municipalities. |
| General | G-10(1) | In Progress | |
| Sewage | S-3(2) | In Progress | |
| Sewage | S-4(3) | In Progress | |
| Sewage | S-5(1) | In Progress | |
| Sewage | S-7(1) | In Progress | |
| Road Salt | R-4(3) | In Progress | |
| Waste | W-2(2) | In Progress | |
| Water Quantity | Y-1(2) | In Progress | |
| Water Quantity | Z-1 | In Progress | |

Appendix A

| Significant Drinking Water Threats | A | B | C | D | Remaining SDWTs to be Addressed (A+B-C=D) |
|---|------------|----------|------------|-----------|---|
| The establishment, operation, or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> . | | | | | |
| The establishment, operation or maintenance of a system that collects, stores, transmits, treats, or disposes of sewage. | 88 | 1 | 64 | 25 | 0 |
| The application of agricultural source material to land. | 8 | | 5 | 3 | 0 |
| The storage of agricultural source material | 1 | | 1 | | 0 |
| The management of agricultural source material | | | | | |
| The application of non-agricultural source material to land | 1 | | 1 | | 0 |
| The handling and storage of non-agricultural source material | | | | | |
| The application of commercial fertilizer to land | 63 | | 60 | 3 | 0 |
| The handling and storage of commercial fertilizer | 1 | | 1 | | 0 |
| The application of pesticide to land | 7 | | 4 | 3 | 0 |
| The handling and storage of pesticide | 1 | | 1 | | 0 |
| The application of road salt | | | | | |
| The handling and storage of road salt | | | | | |
| The storage of snow | | | | | |
| The handling and storage of fuel | 34 | 2 | 34 | 2 | 0 |
| The handling and storage of a dense non-aqueous phase liquid | 2 | | 2 | | 0 |
| The handling and storage of an organic solvent | | | | | |
| The management of runoff that contains chemicals used in the de-icing of aircraft | | | | | |
| The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard O. Reg. 385/08, Section 3. | 1 | 2 | 1 | 2 | 0 |
| Water taking from an aquifer without returning the water to the same aquifer or surface water body | | | | | |
| Reducing recharge of an aquifer | | | | | |
| Total | 207 | 5 | 174 | 38 | 0 |

A = Original estimate of SDWT in the Approved Assessment Report

B = Additional SDWT identified after SPP approved as a result of field verification

C = SDWT 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 at the location

D = SDWT addressed through policy implementation