

The Corporation of the Town of Tecumseh

By-Law Number 2024-099

Being a By-Law to regulate cross-contaminations and backflow prevention in private plumbing systems to protect the Town of Tecumseh's Water Supply system from contamination.

Whereas Section 11 of the *Municipal Act*, 2001, S.O. 2001, c.25, as amended, provides that The Corporation of the Town of Tecumseh (the "Town") may pass By-Laws relating to public utilities, including matters affecting water distribution, and for the purposes related to health, safety, and well-being of persons;

And Whereas Subsection 11(1) of the *Safe Drinking Water Act*, 2002, S.O. 2002, c. 32, as amended, requires every owner of a municipal drinking water system to ensure that all water provided by the system meets the requirements of drinking water quality standards and that the drinking water system is operated in accordance with the *Safe Drinking Water Act*, 2002;

And Whereas Section 19 of the *Safe Drinking Water Act*, 2002, S.O. 2002, c. 32, as amended, requires every person who oversees or has decision-making authority over a municipal drinking water system to exercise the level of care, diligence and skill that a reasonable prudent person would be expected to exercise in a similar situation and act honestly, competently and with integrity with a view to ensuring the protection and safety of the users of the municipal drinking water system;

And Whereas Part 7 (Plumbing) of the Building Code requires potable water systems to be protected from contamination;

And Whereas Section 80(1) of the *Municipal Act*, 2001, S.O. 2001, c.25, as amended, authorizes a municipality, at reasonable times, to enter on land to which it supplies a public utility to inspect, repair, alter or disconnect the service pipe or wire, machinery, equipment and other works used to supply the public utility or to inspect, repair, replace or alter a public utility meter;

And Whereas Section 80(2) of the *Municipal Act*, 2001, S.O. 2001, c.25, as amended, authorizes a municipality to, for the purposes of s. 80(1), shut off or reduce the supply of the public utility to the land;

And Whereas Section 80(3) of the *Municipal Act*, 2001, S.O. 2001, c.25, as amended, authorizes the municipality to enter on the land to shut off the supply of the public utility; to remove any property of the municipality or to determine whether the public utility has been or is being unlawfully used, if a customer discontinues the use of a public utility on land or a municipality lawfully decides to cease supplying the public utility to land;

And Whereas Section 391 of the *Municipal Act*, 2001, S.O. 2001, c.25, as amended, authorizes the municipality to impose fees or charges on persons for a) services or activities provided or done by or on behalf of it, b) for costs payable by it for services or

activities provided or done by or on behalf of any other municipality or any local board and c) for use of its property including property under its control;

And Whereas Section 434.1 of the *Municipal Act*, 2001, S.O. 2001, c.25, provides that a municipality may require a person to pay an administrative penalty if the municipality is satisfied that the person has failed to comply with any By-Law of the municipality passed under the *Municipal Act*, 2001.

And Whereas the Council of the Town of Tecumseh desires to put mechanisms in place so as not to permit the discharging of a contaminating substance into the municipal drinking-water system;

Now Therefore the Council of The Corporation of The Town of Tecumseh Enacts as follows:

1. **Definitions**

In this By-Law wherever a word is used with its first letter capitalized, the term is being used as it is defined in this Section 1. Where any word appears in ordinary case, its regularly applied meaning in the English language is intended. For the purpose of this by-law, the following terms are explained:

- 1.1 **“Accredited Organization”** means a governing body that certifies individuals in the field of Backflow prevention, including the Ontario Water Works Association (OWWA) and American Society of Sanitary Engineers (ASSE).
- 1.2 **“Authorized Functions List”** means the list of functions and the persons authorized to carry out such functions as set out in [Appendix “A”](#) of this by-law.
- 1.3 **“Auxiliary Water Supply”** means any water source or system, other than the municipal Potable Water supply that may be available in any Building, Structure or Property. This includes fire hydrants.
- 1.4 **“AWWA”** means American Water Works Association.
- 1.5 **“Backflow”** means the flowing back of or reversal of the normal direction of flow of water.
- 1.6 **“Backflow Prevention Device”** means a device that prevents Backflow certified to the CSA Standard.
- 1.7 **“Building”** shall have the same meaning as set out in the *Building Code Act*, as amended, or any successor thereof.
- 1.8 **“Building Code (OBC)”** means the regulations, as amended from time to time, made under section 34 of the *Building Code Act*.

- 1.9 **“Cross Connection”** means any actual or potential connection between a Potable Water system and any source of pollution or contamination.
- 1.10 **“Cross Connection Survey Report”** means the report as set out in [Appendix “B”](#) of this by-law, to be completed by a person on the Authorized Functions List.
- 1.11 **“CSA Standard”** means the CAN/CSA B-64 Series published by the Canadian Standards Association, as amended or any successor thereof.
- 1.12 **“Director”** means the Director of Public Works & Engineering Services or their designate, or any person as the Council of the Town designates.
- 1.13 **“Fire Protection System”** means any system within any Building or Structure for the suppression of a fire, including but not limited to any system consisting of a water sprinkler system or dry foam, or a system described in the CSA Standard.
- 1.14 **“Irrigation System”** means artificially supplying land with water for agriculture or landscaping, usually by means such as pipes and sprinklers.
- 1.15 **“Owner”** means any person, firm or corporation having control over Property to which this By-Law applies and includes the Owner registered on the title of the Property and any occupant of any Building or Structure located on such Property.
- 1.16 **“OWWA”** means the Ontario Water Works Association.
- 1.17 **“Potable Water”** means water that is safe for human consumption and that complies with the *Safe Drinking Water Act, 2002*, S.O. 2002, c. 32, as amended or successor thereto.
- 1.18 **“Premise Isolation”** means Backflow Prevention Devices installed within the facility on the service line connection to the Town’s Water Supply.
- 1.19 **“Property”** means any land within the Town of Tecumseh and includes all Buildings or Structures.
- 1.20 **“Qualified Person”** means a person who is certified by an Accredited Organization and who meets the requirements outlined within the CSA B64.10.1-11 Standard, as amended or any successor thereof.
- 1.21 **“Severe, Moderate or Minor Hazard”** shall be as defined in the CSA Standard, as amended or any successor thereof.
- 1.22 **“Structure”** means anything constructed or built permanently or temporarily which is provided with a source of Potable Water.
- 1.23 **“Test Report”** means a report in the form of [Appendix “C”](#) of this By-Law.

- 1.24 **“Test Tag”** means a tag acceptable to the Town, containing the make, model, serial number, size, type, location, installation date and address as well as the test history of a Backflow Prevention Device.
- 1.25 **“Town”** means The Corporation of the Town of Tecumseh.
- 1.26 **“Town’s Water Supply”** means the Town’s water distribution system or Potable Water system which is governed by the *Safe Drinking Water Act*, 2002, S.O. 2002.
- 1.27 **“Untreated Water”** means the water not subject to the requirements of the *Safe Drinking Water Act*, as amended, and/or water that is not under the direct control of the Town.
- 1.28 **“Water Meter”** means an apparatus that measures and records the amount of water supplied to a Property/Building/Structure by the Town’s Water Supply.
- 1.29 **“Zone Protection”** is practiced within Buildings/Structures where there exist both drinking and non-Potable Water piping systems. This type of protection may also be practiced within the distribution system of a Potable Water system in order to protect individual zones or areas from possible contamination from another zone or area within the distribution system.

2. **General**

2.1 **Short Title**

This By-Law may be referred to variously as the “Backflow Prevention By-Law” or the “By-Law.”

2.2 **Application of By-Law**

- (a) This By-Law applies to all existing and proposed industrial, commercial, institutional, and multi-residential Buildings and Structures, except Buildings of residential occupancies as described in Part 9 of the latest version of the OBC.
- (b) In addition to and notwithstanding section 2.2(a) of this by-law, this by-law applies where a condition exists, or a condition is created or proposed to be put in place, in any Building or Structure that may be hazardous or detrimental to the Town’s Water Supply by such condition.

2.3 **Conformance to By-law**

Every Owner of a Property to which this By-Law applies shall ensure that a Backflow Prevention Device is installed in every Building or Structure supplied by the Town's Water Supply.

2.4 **Conformance to Other Law**

Nothing in this By-Law shall serve to relieve any person from the obligation to comply with all other applicable laws.

3. **Prohibited Cross Connections**

3.1 No person or Owner shall connect, cause to be connected, or allow to remain connected to the Town's Water Supply any piping, fixture, fitting, container, appliance, vehicle, machine or the like in a manner which may under any circumstance allow Untreated Water, waste water or any other liquid, chemical or substance to enter the Town's Water Supply or system, except in compliance with the provisions of this by-law.

3.2 Every Owner of a Property to which this by-law applies shall ensure that a Backflow Prevention Device is installed in respect of Premise Isolation or Zone Protection in every Building/Structure.

3.3 No person or Owner shall connect, cause to be connected, or allow to remain connected any Auxiliary Water Supply or private well to a plumbing system which is supplied by the Town's Water Supply, unless appropriate backflow protection is installed.

4. **Cross Connection Control Survey Requirement**

4.1 A Cross Connection Control Survey, as provided in [Appendix "B"](#) or an approved equivalent form, shall be completed and submitted to the Town by the Owner, at the Owner's expense.

4.2 A Cross Connection Control Survey shall be conducted, and submitted to the Town, within 30 days of the following situations:

- (a) On the third (3rd) anniversary of the most recent survey:
- (b) A change in Property ownership.
- (c) A new connection being made to a Building.
- (d) The circumstances or equipment to which a survey applies changes or is modified that alters, or has the potential to alter, the information contained in a most recent Cross Connection Control Survey that has been provided to the Town.

- (e) The use or circumstance of a Building changing or being modified in a manner that increases, or has the potential to increase, the Hazard level for a plumbing system to which the most recent Cross Connection Control Survey applies.

4.3 Notwithstanding 4.1 and 4.2, the Town may at any time order an Owner to conduct tests, provide reports, including a Cross Connection Control Survey Report or a Test Report, and undertake any other measures required for the prevention of Backflow or protection of a Cross Connection.

5. **Backflow Prevention Installation**

5.1 Selection and installation of the Backflow Prevention Device shall be in accordance with acceptable engineering practices, the requirements of the Building Code, manufacturer's specifications, and CSA Standard.

5.2 Every person installing or replacing a Backflow Prevention Device shall ensure that:

- (a) A building permit is obtained from the Town prior to the installation, modification, or replacement of the Backflow Prevention Device.
- (b) Inspection of the installation of the Backflow Prevention Device is carried out in accordance with the requirements of the building permit and the CSA Standard.
- (c) Where such a device is installed in respect of Premise Isolation, all piping between the Water Meter and such device is clearly labelled "no connection permitted."
- (d) Valves shall be installed on both sides of the device to facilitate maintenance and replacement.
- (e) Where such device is installed in respect of source or zone isolation, all piping between the point of contamination and the point at which the device is located is labelled "non-Potable Water."

5.3 Premise Isolation Backflow Prevention Devices shall be installed at all Buildings/Structures with plumbing systems that is identified as a Severe, Moderate, or Minor Hazard regardless of any area or source Backflow Prevention Devices that may be installed within the plumbing system. Refer to [Appendix "D"](#) – Backflow Prevention Guide to Degree of Hazard.

5.4 Every Owner shall ensure that a Backflow Prevention Device is installed where required by this By-Law.

- 5.5 Every Owner of Property to which this By-Law applies and on which an Irrigation System is located, shall ensure that such Irrigation System is protected against Backflow in accordance with the CSA Standard.
- 5.6 Where there is a Fire Protection System within a Building/Structure, the Owner of the Property shall ensure that such Building/Structure is protected against Backflow in accordance with the CSA Standard.
- 5.7 All costs related to the installation of Backflow Prevention Device shall be at the Owner's expense.
- 5.8 The Backflow Prevention Device shall be owned and maintained by the Owner in proper working order at all times.
- 5.9 Every Owner who does not comply with a notice to install a Backflow Prevention Device is guilty of an offence.

6. **Persons Permitted to Carry Out Work**

- 6.1 Only those persons with the required qualifications listed in the Authorized Functions List, attached as [Appendix "A"](#), shall carry out the corresponding functions set out therein.
- 6.2 The persons who are permitted to perform the Cross Connection Control Surveys or testing of Backflow Prevention Devices shall also have and submit proof of the following qualifications in a form satisfactory to the Town:
 - (a) A Tester's Certificate issued by the OWWA Cross Connection Control Specialist Certificate or an ASSE Cross Connection Control/Backflow Certificate which has been issued or renewed within five (5) years prior to date of the submission of a Cross Connection Survey Report or a Test Report; and
 - (b) A current calibration certificate for the test equipment issued within the twelve (12) months prior to the date of submission of a Test Report.
- 6.3 No person shall submit to the Town any information that is false or inaccurate.
- 6.4 The proof of qualifications and test equipment calibration shall be submitted at the same time the Cross Connection Control Surveys and Test Reports are submitted to the Town.
- 6.5 The Owner shall be responsible for ensuring that the persons selected to perform the work are qualified in accordance with Section 6.1 & 6.2.

7. Testing of Backflow Prevention Devices

- 7.1 Every Owner who has a Backflow Prevention Device installed on his or her Property shall ensure, at the Owner's expense,
- (a) Such a device is tested when it is first installed and annually thereafter, or when requested by the Director, and when it is cleaned, repaired, overhauled, or relocated.
 - (b) When such a device is tested, a Test Report, conforming to the template in [Appendix "C"](#), is completed and submitted to the Town within 14 days of the test being conducted.
 - (c) In the event that such a device is malfunctioning or otherwise not in proper working order, cause the device to be repaired or replaced.
- 7.2 Every Qualified Person who tests a Backflow Prevention Device shall:
- (a) Provide a legible Test Report to the Owner of the Building/ Structure subject to such a test.
 - (b) Upon completing such test, complete and affix a Test Tag, in a form acceptable to the Town, containing the make, model, serial number, size, type, location, installation date and address as well as the test history of a Backflow Prevention Device, to the device or immediately adjacent to the device on the piping connected thereto.
 - (c) Upon finding that such device is malfunctioning or otherwise not in proper working order, immediately notify the Owner of the Building/Structure subject to such a test and the Town of such condition.

8. Test Equipment Maintenance

- 8.1 Where required by the CSA Standard, all equipment used to test Backflow Prevention Devices shall be verified and/or calibrated for accuracy. Proof of such verification and/or calibration shall be provided to the Town in conjunction with the submission of a Test Report.
- 8.2 The selection, maintenance and field testing of Backflow Prevention Devices shall be in accordance with the CSA Standard and OBC.
- 8.3 An Owner shall obtain, or ensure that it is obtained, a Building permit in order to install, modify or perform any corrective action, or to remove a Backflow Prevention Device and any related plumbing.

9. Corrective Actions and Order Requiring Compliance

- 9.1 Every Owner shall take corrective actions on any deficiencies or to address any recommendations made by a Qualified Person or identified on a Cross Connection Control Survey Report or on a Test Report respecting the Owner's Property.
- 9.2 Should a condition be found on a Property which is in contravention of this By-Law, the Town may:
- (a) issue an order to the Owner to correct the issue at the Owner's expense within a specified time period and if the order is not complied with, the Town may discontinue the supply of water from the Town's Water Supply to the plumbing system, and/or;
 - (b) without Notice to the Owner, discontinue the supply of water from the Town's Water Supply.
- 9.3 The Issued order shall include:
- (a) the municipal address of the Property, with a reasonable explanation of the corrective action required;
 - (b) the time frame for complying with the terms and conditions of the order; and
 - (c) a clear statement that if the order is not complied with within that time, the Town may carry out the work at the Owner's expense.
- 9.4 Method of Delivery of Order: The order, and any subsequent written order amending or withdrawing the order, may be delivered by any one or more of the following methods:
- (a) personal delivery to the Owner to whom it is addressed;
 - (b) couriered delivery to Owner's address, or;
 - (c) delivery by prepaid mail to the Owner's last known address or as otherwise contemplated in subsection 343(6) of the *Municipal Act*, 2001 c. 25.

10. Removal of Backflow Prevention Devices Prohibited

No Owner of a Building in which a Backflow Prevention Device is installed shall cause or permit the removal of such device, or part thereof, unless such removal is to immediately replace the device with another device that meets or exceeds the provisions of this By-Law or such removal is due to change of the function of a Building or Structure into a category to which this By-Law does not apply or

that would not require a Backflow Prevention Device and such removal is approved by the Director.

11. Administration and Enforcement

- 11.1 The Director shall be responsible and is delegated the power to administer and enforce this By-Law, including prescribing the content of any forms or other documents required under this By-Law from time to time.
- 11.2 The Director is authorized to delegate responsibilities for the administration and enforcement of this By-Law to any Town staff or external third parties deemed to be qualified and appropriate by the Director for such purposes.
- 11.3 The Town may, at any reasonable time, enter on any land for the purpose of carrying out an inspection to determine whether or not the following are being complied with:
- (a) the provisions of this By-Law;
 - (b) an order issued under this By-Law;
 - (c) condition of any permit or license issued under this By-law; or
 - (d) an order made under Section 431 of the *Municipal Act*, as amended.
- 11.4 For the purposes of an inspection under subsection (c), the person conducting the inspection may:
- (a) require the production for inspection of documents or things relevant to the inspection;
 - (b) inspect and remove documents or things relevant to the inspection for the purpose of making copies or extracts;
 - (c) require information from any person concerning a matter related to the inspection; and
 - (d) alone or in conjunction with a person possessing special or expert knowledge, make examinations or take tests, samples, or photographs necessary for the purposes of the inspection.
- 11.5 The Town may undertake an inspection pursuant to an order issued under Section 438 of the *Municipal Act*, as amended.
- 11.6 Pursuant to Section 435 of the *Municipal Act*, the Town's power of entry may be exercised by an employee, officer, or agent of the Town.

When entering a Property under this By-Law, the person exercising the power of entry:

- (a) shall provide identification to any person requesting identification during the course of the entry;
 - (b) may be accompanied by a person or persons under their direction; and
 - (c) shall not enter or remain in any room or place actually used as a dwelling unless at least one of the conditions set out in Section 437 of the *Municipal Act* is met.
- 11.7 The Town may, in addition to taking any other step, shut off the water supply to a Property or any portion of a Property if the Director deems that a threat of contamination exists from such Property that can endanger public health or safety until such time as the threat of contamination is eliminated.
- 11.8 No person shall hinder or obstruct, or attempt to hinder or obstruct an employee, officer, agent or contractor of the Town or other person so authorized by the Town who is performing a duty or exercising a power under this By-Law pursuant to Section 426 of the *Municipal Act*.
- 11.9 Town May Complete Work: Where an order has been issued by the Town and compliance has not been achieved within the required time period as set out in the order, the Town may, through its employees and agents acting on their behalf, carry out the work required by the order at the expense of the Owner and all expenses so incurred may be added to the tax roll and collected from an Owner in the same manner as municipal taxes.
- 11.10 Every Owner who contravenes any provision of this By-Law, and every director or officer of a corporation who concurs in such contravention by the corporation, is guilty of an offence and is liable to a fine or penalty, as provided for in the *Provincial Offences Act*, R.S.O. 1990, c.P.33, and the *Municipal Act*, 2001, as both may be amended from time to time.
- (a) Pursuant to Section 431 of the *Municipal Act*, 2001, if a person has been convicted of an offence under this By-Law, a court of competent jurisdiction may, in addition to the penalty imposed on the person convicted, issue an order:
 - (ii) prohibiting the continuation of repetition of the offence by the person convicted; and
 - (iii) requiring the person convicted to correct the contravention in the manner and within the period that the court considers appropriate.

- (b) In accordance with Section 398(2) of the *Municipal Act*, 2001, the Town may add unpaid fees, charges, and fines under this By-Law to the tax roll and collect them in the same manner as municipal taxes.

12. Offence and Penalty Provisions

- 12.1 Every person who contravenes a provision of this By-Law, including an order issued under this By-Law, is guilty of an offence.
- 12.2 Any person who is guilty of an offence under this By-Law, and upon conviction shall be subject to the following fines as established pursuant as provided for in the *Provincial Offences Act*, R.S.O. 1990, c.P.33, and/or the *Municipal Act*, 2001, as both may be amended from time to time.
 - (a) Every Owner who contravenes any provision of this By-Law is guilty of an offence and on conviction is liable, for every day or part thereof upon which such offence occurs or continues, to a fine of not more than ten thousand dollars (\$10,000.00) for a first offence and twenty-five thousand dollars (\$25,000.00) for any subsequent conviction;
 - (b) Every Owner that is a corporation which contravenes any provision of this By-Law is guilty of an offence and on conviction is liable for every day or part thereof upon which such offence occurs or continues to a fine of not more than fifty thousand dollars (\$50,000.00) for a first offence and one hundred thousand dollars (\$100,000.00) for any subsequent conviction, and;
 - (c) In this By-Law subsequent conviction means a conviction for an offence which offence occurs after the date of conviction for an earlier offence under this By-Law.
- 12.3 A Person who contravenes any provision of this By-law is guilty of an offence and can alternatively, at the option of the Officer, be issued a penalty notice in respect thereof requiring the payment of an administrative penalty pursuant to the Towns Administrative Monetary Penalties System (AMPS) By-law 2024-048 as amended from time to time
- 12.4 If a person is required to pay an administrative penalty in respect of a contravention of this By-Law, the person shall not be charged with an offence in respect of the same contravention.

13. Proceeds of Fines

Pursuant to Subsection 433(1) of the *Municipal Act*, where a person has been convicted of any offence under this By-law, every fine imposed for a contravention of the By-law belongs to the Town.

14. **Unpaid Fines**

Pursuant to Subsection 441.1 of the *Municipal Act*, the treasurer of a municipality may add any part of a fine for the commission of a provincial offence that is in default under Section 69 of the *Provincial Offences Act* to the tax roll for any Property in the local municipality of which all of the Owners are responsible for paying the fine and collect in the same manner as taxes.

15. **Repeal**

That By-Law No. 2001-68, being a by-law to provide for Backflow prevention passed on the 13th day of November 2001, is hereby repealed.

16. **Effective Date**

That this by-law shall come into force and take effect on the day of final passing.

Read a first, second, third time and finally passed this 26th day of November, 2024.

Gary McNamara, Mayor

Robert Auger, Clerk

Appendix “A”

By-Law 2024-099

Authorized Functions List



Item	Function	Professional Engineer Licensed in accordance with CSA Standards	Certified Engineering Technologist Licensed in accordance with CSA Standards*	Licensed Master Plumber Licensed in accordance with CSA Standards	Journeyman Plumber Licensed in accordance with CSA Standards**	Apprentice Plumber Licensed in accordance with CSA Standards***	Fire System Sprinkler Fitter Licensed in Accordance with CSA Standards	Lawn Irrigation System Installer Licensed in accordance with CSA Standards	Steamfitter Licensed in accordance with CSA Standards	Town Staff Licensed in accordance with CSA Standards****
1	Carry out Cross Connection Survey	✓	✓	✓	✓	✓	✓	✓	✓	
2	Install, Relocate or Replace Backflow Prevention Device			✓	✓	✓				
3	Repair Backflow Prevention Device	✓	✓	✓	✓	✓				
4	Test Backflow Prevention Device	✓	✓	✓	✓	✓				✓
5	Items 1, 2,3, & 4 above for Fire Protection Systems	✓	✓	✓	✓	✓	✓			
6	Items 3 & 4 above for Lawn Sprinkler Systems	✓	✓	✓	✓	✓		✓		
7	Complete items 1, 2, 3, & 4 for heating and cooling systems								✓	

*Required to be under the direction of a professional engineer

**Required to be employed by a licensed plumbing contractor or licensed fire sprinkler contractor

***Required to be employed by a licensed plumbing contractor and under the direct supervision of a journeyman plumber or master plumber

****Town Staff will conduct testing on their own devices only

Appendix “B”
By-Law No. 2024-099
Cross Connection Survey Report



Email completed form to:							Date(yyyy-mm-dd):		
Owner:			Address:		Phone:		Email:		
Surveyor:			Certificate #:		Phone:		Email:		
Does the Building have a Sprinkler System: <input type="checkbox"/> Yes <input type="checkbox"/> No			Is a Bypass Present: <input type="checkbox"/> Yes <input type="checkbox"/> No		Size, type, and serial no. premise isolation device:				
Chemical Addition: <input type="checkbox"/> Yes <input type="checkbox"/> No			Bypass Protected: <input type="checkbox"/> Yes <input type="checkbox"/> No		Specify recommended / existing (circle one) protection for sprinkler system:				
	Location of cross connection	Existing device type	Serial No. (if applicable)	Date of last test (if applicable) (yyyy/mm/dd)	Degree of hazard (L/M/S)	Acceptable Protection (Y/N)	Recommended upgrade	Remarks	
1									
2									
3									
4									
5									
All selections shall be made following the Backflow Prevention Regulations of the Town By-law No.2024-099 and CAN/CSA B64.10 Note: Surveyor is required to submit copies of this report to the Town and Owner.		Device type: AG – Air gap *AVB – Atmospheric type vacuum breaker *DCAP – Dual check valve type with atmospheric port *DCVA – Double check valve assembly type *DuC – Double check valve type *DuCV – Dual check valve type with intermediate vent HCVB – Hose connection type vacuum breaker			LACV – Listed alarm check valve LFVB – Laboratory faucet type vacuum breaker N – None *PVB – Pressure type vacuum breaker *RP – Reduced pressure principle type RSCV – Resilient seated check valve * = installation of device requires permit			Degree of Hazard: L - Low M - Moderate S - Severe	
This form is intended to assist the Qualified Person in carrying out a survey and is not to be construed as addressing all potential cross connection situations. It is the responsibility of the owner and building occupant to bring to the attention of the Qualified Person all water uses within the premises to permit inspection for potential cross connections and to enable recommended corrective actions.									
I hereby certify the information in this report & any other attached document(s) is true to the best of my knowledge & recommendations are made in compliance with Town Bylaw & CSA Standards:									
Signature of Qualified Person: _____					Signature of Owner: _____				

Appendix "C"
By-Law No. 2024-099
Test Report



Location Address		Postal Code	
Occupant		Emergency Contact	
		Telephone	
		Email	
Owner		Telephone	
Address of Owner		Postal Code	
Name of Certified Tester		Tester Certification Number	
		Telephone	
Business Name		Business Address	
		Email	
Make of Test Kit		Model Number	Serial Number
		Calibration Expiry (YYYY-mm-dd)	
Device Location		Purpose of Device	
Test Date		RP <input type="checkbox"/>	DCVA <input type="checkbox"/>
		PVB <input type="checkbox"/>	
Make	Model	Serial Number	Size
Initial Test <input type="checkbox"/>	Annual Test <input type="checkbox"/>	Passed <input type="checkbox"/>	Failed <input type="checkbox"/>
Line Pressure			
REDUCED PRESSURE BACKFLOW ASSEMBLY			
Check Valve No. 1	Check Valve No. 2	Check Valve No. 3	
<input type="checkbox"/> Leaked <input type="checkbox"/> Closed Tight	<input type="checkbox"/> Leaked <input type="checkbox"/> Closed Tight	<input type="checkbox"/> Leaked <input type="checkbox"/> Closed Tight	
Pressure Differential Across No. 1 Check _____	Pressure Differential Across No. 2 Check _____	Pressure Differential Across No. 3 Check _____	
Shut off valve No. 2 <input type="checkbox"/> Leaked <input type="checkbox"/> Closed Tight			
DOUBLE CHECK VALVE		PRESSURE VACUUM BREAKER	
Check Valve No. 1	Check Valve No. 2	Air Inlet Valve	
With Flow Against Flow	With Flow Against Flow	Opened At _____ <input type="checkbox"/> Failed to Open	
<input type="checkbox"/> Leaked <input type="checkbox"/>	<input type="checkbox"/> Leaked <input type="checkbox"/>	Check Valve <input type="checkbox"/> Leaked	
<input type="checkbox"/> Closed Tight <input type="checkbox"/>	<input type="checkbox"/> Closed Tight <input type="checkbox"/>	<input type="checkbox"/> Closed Tight	
Pressure Differential Across No. 1 Check _____	Pressure Differential Across No. 2 Check _____	Pressure Differential Across Check Valve _____	
If assembly fails test, complete this section and note repairs (if Device replaces an existing device, list Serial # of existing device):			
I certify the device has been tested following CAN/CSA B64.10-01/B64.10.1-01 (R2006).			
Tester Signature:		Date:	

Appendix “D”

By-Law No. 2024-099

Backflow Prevention Guide to Degree of Hazard

Type of Cross Connection	Degree of Hazard
Agricultural chemicals (sprayers)	Severe
Air Compressor Oil Cooler	Moderate
Animal watering	Moderate
Aspirator (toxic)	Severe
Aspirator (non-toxic)	Moderate
Autoclave	Severe
Autopsy and Mortuary Equipment	Severe
Auxiliary Water Supply	Severe
Baptistery	Moderate
Basin	Moderate
Bathtub (all)	Moderate
Bedpan Washer	Severe
Beverage Dispensing Equipment (no carbonator)	Minor
Beverage Dispensing Equipment (with carbonator)	Moderate
Bidet	Moderate to Severe
Bottle Washer	Moderate to Severe
Bread Making Equipment	Minor to Moderate
Canopy Washer	Severe
Chemical Feed Tank	Severe
Chiller Tank (no chemical)	Moderate to Severe
Chiller Tank (with chemical)	Severe
Chlorinator	Severe
Clothes Washer (residential)	Moderate
Coffee Machine	Minor
Condensate Tank (top feed)	Moderate
Condensate Tank	Severe
Cooking Kettle	Minor
Cooling Condenser (solenoid upstream)	Minor
Cooling Condenser (solenoid downstream)	Severe
Cooling Tower	Severe
De-aerator (top feed)	Moderate
De-aerator (bottom feed)	Severe
Degreasing equipment system	Severe
Deionized water	Severe
Dental Vacuum pump	Severe
Dental Cuspidor (with internal air gap)	Minor
Dental Cuspidor (no air gap)	Severe
Dental Delivery system	Minor
Detergent dispenser	Severe
Dipper well in ice-cream parlour or restaurant	Moderate
Dish rinse unit with flex hose	Moderate
Dishwasher (commercial)	Moderate
Dishwasher (residential)	Minor to Moderate
Distiller	Minor
Dockside Marine Facility	Severe

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Backflow Prevention Guide to Degree of Hazard

Type of Cross Connection	Degree of Hazard
Dry sprinkler or standpipe system	Moderate
Fire Hydrant	Moderate
Flexible shower head with hose	Minor to Severe
Floor drain with flushing rim	Severe
Flush tank	Moderate
Flushing equipment device	Severe
Flushometer	Severe
Fountain, ornamental	Moderate to Severe
Fountain, ornamental (chemical added)	Severe
Fume hood	Severe
Garbage disposal unit	Severe
Garbage can washer	Severe
Heat Exchanger	Minor to Severe
Heating System (copper/plastic; no chemicals)	Minor
Heating System (no chemicals added)	Moderate
Heating System (chemicals added)	Severe
Heating System (single family dwelling)	Moderate
Hose bib, sediment faucet	Minor to Severe
Hose bib, sediment faucet, connected to high hazard	Severe
Hose bib, sediment faucet (residential)	Minor to Moderate
Humidifier	Moderate
Humidifier with sump	Severe
Hydrotherapy bath	Moderate
Ice Machine for commercial restaurant	Moderate to Severe
Ice making equipment for sports arena	Severe
Industrial fluid system	Severe
Irrigation system (chemical injected)	Severe
Irrigation system (no chemical added)	Moderate
Lab bench equipment (toxic)	Severe
Lab bench equipment (non-toxic)	Minor
Laboratory	Severe
Laboratory Faucet	Moderate to Severe
Laundry, commercial coin-operated	Moderate
Laundry machine, commercial	Moderate
Laundry machine, residential	Minor
Laundry tub faucet with hose bib connection	Moderate
Lavatory	Moderate
Lethal substance	Severe
Livestock equipment	Severe
Mixing tee with steam and water	Moderate
Mop sink faucet with hose bib connection	Moderate
Mortuary or Morgue	Severe
Non-potable water	Severe
Optician or Ophthalmology equipment	Minor to Moderate
Pedicure Chair	Moderate to Severe

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Backflow Prevention Guide to Degree of Hazard

Type of Cross Connection	Degree of Hazard
Photo lab sink	Severe
Pipette washer	Severe
Piping to chemical dispensers	Minor to Severe
Plating tank	Severe
Potato peeler	Moderate
Poultry barn	Severe
Pressure washer (no aspirator)	Minor
Pressure washer (with aspirator)	Severe
Private fire hydrant	Moderate
Private water source	Severe
Pump primer line (toxic)	Severe
Pump primer line (non-toxic)	Moderate
Radiator flushing equipment	Severe
Restricted area	Severe
Reverse osmosis	Minor
Reverse osmosis with backwashing	Moderate
Reverse osmosis with chemical cleaning	Severe
Serrated faucet	Severe
Sewage ejector	Severe
Sewage pump	Severe
Shampoo sink	Moderate
Sizing vat	Severe
Solar hot water system(residential - no chemicals added)	Minor to Moderate
Solar hot water systems (residential - relatively harmless heat transfer fluid)	Minor to Moderate
Solar hot water systems (residential - toxic heat transfer fluid)	Severe
Solar hot water systems (commercial - single wall heat exchanger)	Moderate to Severe
Solar hot water systems (all types double wall heat exchanger)	Minor
Solar hot water systems (make-up water connection to the heat transfer piping loop)	Minor to Severe
Solution tank	Severe
Spa or hot tub	Moderate
Specimen tank	Severe
Steam table	Minor to Moderate
Steam generator	Moderate
Steam cleaner	Moderate
Sterilizer (condensate cooling only)	Moderate
Sterilizer (connection into chamber)	Severe
Still	Minor
Swimming pool (residential)	Minor
Swimming pool (other than residential)	Moderate
Swimming pool (direct connection)	Moderate

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Backflow Prevention Guide to Degree of Hazard

Type of Cross Connection	Degree of Hazard
Swimming pool makeup tank	Moderate
Teeth cleaning equipment (veterinary type)	Moderate
Trap primer	Severe
Vending machine with no carbonators	Minor
Wash rack	Severe
Wash tank	Moderate
Wash tank (toxic)	Severe
Water closet (tank type)(N/A if constructed after 1995)	Moderate
Water closet (flushometer type)	Moderate
Water hauling equipment (non-toxic)	Moderate
Water hauling equipment (toxic)	Severe
Water softener, commercial	Minor
Water softener drain	Moderate
Wok table (for oriental cooking with submerged inlet)	Moderate
X-ray equipment	Severe