

Cross Connection Control Bylaw No. 2024-011



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The title page, table of amendments, table of contents, page numbers, and headings included in this consolidated bylaw are for convenience only and do not form part of the bylaw and shall not be used to interpret, define, or limit the scope or intent of the bylaw, schedules, or appendices.

Amendments Included in this Consolidation

Bylaw No.	Citation	Adopted

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Cross Connection Control Bylaw No. 2024-011

A Bylaw to protect public health by controlling cross connections of the potable water supply systems owned and operated by the District of Lillooet

WHEREAS pursuant to its powers under the Community Charter, S.B.C. 2003, chapter 26, the District of Lillooet has established a water supply system;

AND WHEREAS provincial legislation requires water suppliers to ensure that provisions are in place for the elimination and prevention of contamination between their potable water and any non-potable sources;

NOW THEREFORE the Council of the District of Lillooet, in open meeting assembled, ENACTS AS FOLLOWS:

1.0 TITLE

- .1 This Bylaw may be cited for all purposes as “Cross Connection Control Bylaw No.2024-011”.

2.0 GENERAL DEFINITIONS AND INTERPRETATION

- .1 In this Bylaw, the following terms shall have the following meanings:

“**Auxiliary Water Supply**” means any water available on or to a premise that originates from a source or system other than the designated potable water system supplied by the District of Lillooet;

“**Backflow**” means the flow of water or other liquids, gases or solids from any source, opposite to the normal direction of flow back into the potable Private Water System or the Water Supply System;

“**Backflow Preventer**” means a mechanical apparatus or a piping arrangement installed on a water system that prevents Backflow of Contaminants into the potable Private Water System or the Water Supply System and to meet the design and installation criteria requirements of the CAN/CSA standards B64 Series (most current editions);

“**Backflow Prevention Assembly**” means a Backflow Preventer that is designed to be tested and repaired in-line and to meet the design, installation and testing criteria requirements of the CSA B64 series and CSA B64.10 “Selection and Installation of Backflow Preventers” (most current editions);

“**Backflow Prevention Assembly Test Report**” means a form, physical or electronic, provided by or approved for use by the District to be used when testing an Approved Backflow Prevention Assembly to record all pertinent information and test data;

“**Backflow Prevention Assembly Tester**” means a person possessing a valid backflow assembly tester certificate issued by the British Columbia Water and Waste Association and approved by the District for the purpose of conducting a test to determine the operating condition of Backflow Prevention Assemblies;

“**Backflow Prevention Assembly Test Tag**” means an approved identifier attached to and displayed on a Backflow Prevention Assembly displaying the purpose of the device, the manufacturer, and testing information as indicated on the test tag;

“**Bylaw Officer**” means a Person appointed as such by the District of Lillooet;

“**Council**” means the municipal council for the District of Lillooet;

“Customer” means any Person who is the Owner, or agent of the Owner, of any Premise to which water is supplied or made available from the Water Supply System and includes any person who is the occupier of such Premise and any person who is a user of water supplied to any Premises or by any Service from the Water Supply System;

“Contaminant” or **“Contamination”** means an impairment of the water in a potable water system or private waterworks by the introduction or admission of a foreign material, gas, chemical, biological, radiological, or other substance or causes any physical change which may render the water non-potable or changes the aesthetic characteristics of that water;

“Cross Connection” means any temporary, permanent or potential water connection, whether it be direct or indirect, between the Potable Water Supply System and any source of non-potable water, or other contaminant;

“Cross Connection Control Program or **“CCC Program”** means the Cross Connection Control Program and applicable codes and adopted standards, including all policies, procedures, bulletins or specifications developed and implemented by the District to administer and regulate the requirements of this bylaw;

“Cross Connection Survey” means a comprehensive review by the District of Lillooet or Trustee, of any and all water systems located in or on a Premise in order to determine the existence of cross connections, the presence and condition of any existing backflow preventers, or other conditions that could pose a risk to the Water Supply System for the purpose of evaluating conformity with the terms and conditions of this Bylaw;

“CSA” means the Canadian Standards Association;

“Curb Stop” means a Turn Off valve on the Water Supply System at or near a property line and is used to control flow to the Customer’s Premise;

“Discontinue” means to terminate Service or arrangement between the District and the Customer for the supply of water and to Turn Off the service pipe, disconnect, or remove it;

“District” means the District of Lillooet;

“Irrigation Service” means the provision of water Service to a Private Water System for the purpose of delivering and distributing irrigation water;

“Non-Potable Water” means water that is not fit for human consumption as specified in the Drinking Water Protection Act that may or may not contain a pollutant or contaminant;

“Non-Potable Water System” means an assembly of pipes, fittings, valves, and other appurtenances that collects and distributes Non-Potable Water;

“Owner” means has the same meaning as ascribed in the Community Charter, as amended from time to time, and in relation to common property under the Strata Property Act, as amended from time to time, means the strata corporation;

“Person” means and shall include not only a natural person but also a corporation, firm or partnership, and the personal or other legal representative of a Person;

“Potable Water” means water that is fit for human consumption as defined in the Drinking Water Protection Act and regulations, as amended from time to time;

“Premise Isolation” means the prevention of Backflow into the Water Supply System by the installation of one or more Backflow Preventers on the private water system at the service connection point or other location(s) approved by the District, and upstream of the first outlet at or on a Premise;

“**Premise**” means a parcel, lot, or other distinguishable unit of real property, including all of the facilities thereon;

“**Private Water System**” means any privately owned pipe, fittings and valves located downstream of the service connection point and intended for the delivery or distribution of water or other liquid to or within a Premise;

“**Proper Operating Condition**” means where a Backflow Preventer functions as designed and in accordance with the District’s Cross Connection Control Program;

“**Service**” means the supply of water from the Water Supply System to any Person and includes all pipes, taps, valves, connections, meters and other appurtenances necessary to supply water;

“**Service Area**” means the areas within the boundaries of the District that receives Service and is connected to the Water Supply System;

“**Service Connection Point**” means the point of physical connection between the District’s Water Supply System and the Private Water System;

“**Temporary Water Use Permit**” shall mean a permit issued by the District for any Person requesting water from a fire hydrant, stand pipe, or temporary water connection for purposes other than emergency fire protection;

“**Trustee**” includes any Person representing the District and shall include it’s appointed representatives, including the Utility manager, a Bylaw Officer, a Building Official, and any other Person by written consent appointed to administer, enforce, or carry out the provisions of this Bylaw;

“**Turn Off**” or “**Turned Off**” means to stop the flow of water by closing a Municipal owned valve or Curb Stop or by any other means approved by the District;

“**Turn On**” or “**Turned On**” means to start the flow of water by opening a Municipal owned valve or Curb Stop or by any other means approved by the District;

“**Water Supply System**” means the potable water distribution system provided by the District of Lillooet and includes all connections, pipes, pumps, reservoirs, connections and other things necessary to or used to supply water.

3.0 INTERPRETATION

- .1 In this Bylaw, words, or phrases herein, have the same meaning as defined in the Interpretation Act, the Community Charter, the Local Government Act, the British Columbia Building Code and the Canadian Standards Group CSA B64 Standards.
- .2 In this Bylaw, the headings contained herein, are for convenience only and shall not be construed as defining or limiting the intent of the provisions of this Bylaw.
- .3 Any enactment referred to in this Bylaw is a reference to that enactment and its regulations as amended, revised, consolidated or replaced from time to time, and any Bylaw referred to herein (as may be cited by short title or otherwise) is a reference to a District bylaw, as amended, revised, consolidated or replaced from time to time and any code, standard, or certification referred to herein references the most current version.
- .4 If any provisions of this Bylaw is held to be invalid by a court of competent jurisdiction, the provision may be severed from the Bylaw, and such invalidity shall not affect the validity of the remaining portions of this Bylaw.

4.0 PURPOSE

- .1 The purpose of this Bylaw is to protect the Municipal Potable Water supply against the possibility of Contamination through Cross Connections and to provide acceptable methods to control Cross Connections including the inspection, installation and maintenance of Backflow Preventers and other devices or piping arrangements to effectively prevent Contamination of the Water Supply System.

5.0 WATER SUPPLY AND PRESSURE

- .1 The District may, without notice, change the operating water pressure of the Water Supply System, for the purposes of making repairs, extensions, alterations or improvements, or for any other reason.
- .2 The District does not:
 - .1 warrant or guarantee water pressure or the continuous supply of water; or
 - .2 accept responsibility at any time for the maintenance of pressure in its Water Supply System or for increases or decreases in pressure.
- .3 Service supplied by the District to a Customer shall only be provided where, in the opinion of the Trustee, the Water Supply System has been effectively protected from any actual or potential Cross Connections existing at or within the Customer's Private Water System in compliance with this Bylaw.
- .4 Any Customer whose Service has been Turned Off pursuant to this Bylaw shall not have the Service from the Water Supply System Turned On until all requirements of the District have been met and the Customer has paid to the District all costs associated with the Turn Off and Turn On of Service.

6.0 ACCESS TO PREMISE

- .1 The District of Lillooet or Trustee shall be entitled, at its determination and with reasonable notice to:
 - .1 Access the Private Water System located on private property at all reasonable hours in order to carry out inspections and cross connection surveys of the premise to determine the existence of connections, cross connections, or conditions prohibited by this bylaw and as stated in the District Cross-Connection Control Program.
 - .2 Impose minimum standards that must be met and satisfied relating to the type of backflow preventer and the installation and maintenance of the same as specified by the District Cross Connection Control Program.
 - .3 Inspect the type of backflow preventer, the installation and state of maintenance and repair of the same;

7.0 CONDITION OF SERVICE

- .1 Service supplied by the District to a Customer shall only be provided where, in the opinion of the Trustee, the Water Supply System has been effectively protected from any actual or potential cross connections existing at or within a premise.
- .2 No Person shall turn on a water valve to provide service to the occupants of any newly renovated, constructed or reconstructed premise until the Private Water System in such premise has been inspected for Cross Connections and approved by the District or Trustee.

8.0 CROSS CONNECTION PROHIBITED

- .1 No Person shall create a Cross Connection by connecting, causing to be connected, or allowing to remain connected to the Water Supply System any device, piping, fixture, fitting, container, appliance or any other chattel or thing which, under any circumstances that may allow non-potable water or other substance to enter the Water Supply System.

9.0 REGULATIONS

.1 General Cross Connection Control

- .1 The Customer shall remedy or control every Cross Connection on a premise, as the case may be, in accordance with the District of Lillooet Cross Connection Control Program.

.2 Premise isolation

- .1 Backflow preventers shall be installed to maintain premise isolation as a condition of all new or additional requests for service.
- .2 The Customer shall provide a backflow preventer(s) installed as Premise Isolation corresponding to the degree of hazard as stipulated in and as applicable by:
 - .1 the Provincial Plumbing Code
 - .2 the provisions of this Bylaw and the CCC Program; and
 - .3 any order or direction issued by the Trustee under this bylaw.

.3 Duty to Notify

- .1 Any Person who knows or suspects that an unprotected cross connection may exist or that contamination of the water system may have occurred as a result of backflow, either on or in a premise, shall immediately give notice to the District of Lillooet.
- .2 Where there is a visible or other indication that a Backflow Preventer is malfunctioning or not in proper operating condition, it is the responsibility of the Customer to immediately notify the District, this includes but is not limited to damage by: freezing, hot water, snow, fire or otherwise due to neglect.
- .3 The Customer or Certified Backflow Preventer Tester shall notify the District of Lillooet whenever faulty backflow preventer has been replaced or repaired and that it is in proper operating condition.

10.0 BACKFLOW PREVENTION ASSEMBLY SELECTION, INSTALLATION AND REMOVAL

- .1 The purchase, installation, field testing, maintenance, repair, removal, or replacement of a Backflow Preventer(s) located in or on a premise shall be at the sole expense of the Customer.
- .2 Backflow Preventers shall be selected and installed in compliance with the British Columbia Plumbing Code and the Canadian Standards Association CAN/CSA B64.10 "Selection and Installation of Backflow Preventers" (most current edition) where applicable and as indicated in the District of Lillooet Cross Connection Control Program.
- .3 Backflow preventers installed as premise isolation shall be installed on the private water system immediately downstream of the service connection point or where the service connection point enters the building and downstream of the water meter, or alternative location(s) approved by the Trustee.
- .4 No Person shall alter, modify, damage or tamper with a Backflow Preventer in any way that interferes with its proper operating condition or otherwise causes a backflow preventer to be inoperative.
- .5 No Person shall remove a Backflow Preventer unless prior written consent is obtained from the District of Lillooet or Trustee.
- .6 Prior written consent is not required when a Backflow Prevention Assembly is removed and immediately replaced with an equivalent Backflow Prevention Assembly and details are submitted to the District or Trustee on a Backflow Assembly Test Report.

11.0 BACKFLOW PREVENTION ASSEMBLY TESTING AND MAINTENANCE

- .1 A Customer shall arrange for all Backflow Prevention Assemblies required under this Bylaw to be tested by a Backflow Prevention Assembly Tester, upon installation, after repair, is replaced or relocated and at least once in every twelve (12) month period or other period as directed by the District of Lillooet Trustee.
- .2 Where a Backflow Preventer or a Backflow Prevention Assembly is faulty, malfunctioning, damaged, is not in Proper Operating Condition or does not meet the testing requirements and criteria stipulated in the District of Lillooet CCC Program, the Customer shall cause the Backflow Prevention Assembly to be repaired or replaced and then retested within (30) calendar days of the initial test date or other period as directed by the District Trustee.
- .3 A Backflow Prevention Assembly Tester shall possess a valid Backflow Assembly Tester Certificate issued from the British Columbia Water and Waste Association and in compliance with the requirements stipulated in the District's Cross Connection Control Program.
- .4 A Backflow Prevention Assembly Tester shall only use and submit to the District a Backflow Prevention Assembly Test Report form or format authorized by the District of Lillooet as stipulated in the CCC Program.
- .5 A Backflow Prevention Assembly Tester shall complete in full and physically attach a District of Lillooet Backflow Prevention Assembly Test Tag to all Backflow Prevention Assemblies located within the boundaries of the District of Lillooet.
- .6 A District of Lillooet Backflow Prevention Assembly Test Report shall only be completed by a Backflow Prevention Assembly Tester.
- .7 The Customer, Backflow Prevention Assembly Tester or a representative approved by the Trustee, shall submit a properly completed Backflow Prevention Assembly Test Report to the District or Trustee within thirty (30) days of the test date for each Backflow Prevention Assembly.
- .8 A Backflow Prevention Assembly Tester shall confirm and document the following:
 - .1 That it is an approved Backflow Prevention Assembly, selected and installed correctly in compliance with CAN/CSA Standard B64.10 "Selection and Installation of Backflow Preventers" (most current edition) and is in Proper Operating Condition.
 - .2 The reason or cause of a defective or faulty Backflow Prevention Assembly.
 - .3 That the Backflow Prevention Assembly Test Report /Tag is accurately completed, legible and contains all information requested on the report form or tag.
- .9 A Backflow Prevention Assembly Tester shall pay for each Backflow Prevention Test Tag as set out in the District's Fees and Charges Bylaw, as amended or replaced from time to time.
- .10 A Backflow Prevention Assembly Tester shall pay for each Backflow Prevention Assembly Test Report Form a fee or an administration fee as set out in the District's Fees and Charges Bylaw, as amended or replaced from time to time,, for each Backflow Prevention Assembly Test Report submitted to the District of Lillooet under this bylaw.
- .11 The District Trustee may invalidate any Backflow Prevention Assembly Test and/or reject any Backflow Prevention Assembly Test Report where:
 - .1 the information submitted contains incomplete, illegible, false, or misleading information.
 - .2 a non-approved District Backflow Assembly Test Report form or format is submitted
 - .3 a Backflow Prevention Assembly Tester Certification or equipment calibration is invalid.

12.0 CROSS CONNECTION SURVEY

- .1 Where, in the opinion of the District Trustee, has reason to believe that a cross connection or other condition exists within a premise that could pose a risk to the Water Supply System, the Trustee shall direct that a Cross Connection Survey be conducted of the premise.
- .2 Where a Cross Connection Survey is conducted for an existing premise, the survey shall only be completed by a person that is approved and authorized by the District's Cross Connection Control Program.

13.0 TEMPORARY WATER USE CONNECTION

- .1 Except for emergency fire use, no Person shall connect, cause to be connected, or allow to remain connected, any hosing, piping, fixture, fitting, container or appliance to a fire hydrant, standpipe, or other temporary water connection to the Water Supply System:
 - .1 in a manner which, under any circumstances, may allow non-potable water or any other liquid or substance of any kind to enter that Water Supply System.
 - .2 without using a Backflow Prevention Assembly and in compliance with the District Cross Connection Control Program.
 - .3 without first obtaining a District Hydrant or Temporary Use Permit.
 - .4 without first submitting a Backflow Prevention Assembly Test Report confirming that is in Proper Operating Condition.
- .2 In addition to any other penalties that may be applicable under this Bylaw, any Person who contravenes this section may be refused access to use a temporary water use connection.

14.0 IRRIGATION SERVICES

- .1 Where a Cross Connection exists between the District Water Supply System and an irrigation service, in addition to the general provisions stated in this bylaw, the Customer shall also comply with the following:
 - .1 Any Person operating an irrigation system shall have a Backflow Prevention Assembly installed and then tested for each irrigation season and;
 - .1 prior to commencement of operation of the irrigation system of each season or
 - .2 as otherwise directed by the Trustee.

15.0 AUXILIARY WATER SUPPLIES AND NON-POTABLE WATER SYSTEMS

- .1 A Customer of a Premise that contains or has access to an Auxiliary Water Supply System shall install a Backflow Preventer as Premise Isolation with a type of Backflow Preventer as determined by the requirements stipulated in the District CCC Program.
- .2 A Customer shall ensure that there is no direct connection between a non-potable water system and any other potable water system except with the approval in writing from the District Trustee.
- .3 All piping, exposed standpipes, fittings, valves and outlets from any non-potable water system must be permanently identified and marked in conformance with the CSA B128.1 "Design and Installation of Non-Potable Water Systems" or otherwise as approved by the District Trustee.

16.0 COMPLIANCE ORDERS AND COST RECOVERY

- .1 Where any Cross Connection, configuration or other condition of any Private Water System is found to exist that exposes the Water Supply System to risk of contamination in or on a Premise, the Trustee shall, at their discretion, take one or more of the following actions:
 - .1 Issue an order to the Customer to install a Backflow Preventer commensurate to the degree of hazard, or undertake other measures to correct the condition(s) or cross connection(s) at the sole expense of the Customer within 30 days or other time period that the Trustee considers reasonable (or otherwise as listed in Schedule "A"); or
 - .2 Issue an order to the Customer to undertake such other maintenance, repairs, replacement, or other works as related to the proper installation and operating condition of any Backflow Preventer(s) at the sole expense of the Customer within 30 days or a time period that the Trustee considers reasonable (or otherwise as listed in Schedule "A"); or
 - .3 Provide notice to the Customer and Turn off or Discontinue Service until the Cross Connection other condition is properly eliminated, and any fees, costs and expenses incurred by the District and owed by the Customer are paid in full;
 - .4 Issue a ticket to the Customer in the amount indicated in the District's Bylaw Notice Enforcement Bylaw, as amended or replaced from time to time, each day until the condition is corrected;
- .2 Failure of the District or Trustee to issue or deliver a notice or order, or failure of the Customer or other responsible party to receive a notice or order, shall not excuse the mandatory duty of the Customer or other responsible party to comply with the conditions contained within this Bylaw and all other applicable Bylaws or the District's Cross Connection Control Program.
- .3 A Person who creates an illegal Cross Connection shall be liable for all costs associated with the work undertaken by the District or its agent to restore the Water Supply System.
- .4 Any and all costs, damages or losses sustained by the District as a result of a Backflow event involving a contaminant originating from a Premise shall be borne by the Customer.

17.0 PENALTIES AND ENFORCEMENT

- .1 The provisions of this Bylaw may be enforced by any authorized Trustee.
- .2 Any Person who contravenes, violates, or fails to comply with any provision of this Bylaw, order, direction or notice issued under this Bylaw, is guilty of an offence.
- .3 A Person commits an offence and is subject to the penalties imposed by this Bylaw, the Ticket Utilization Bylaw, and the Offence Act, if that Person:
 - .1 contravenes a provision of this Bylaw;
 - .2 consents to, allows, or permits an act or thing to be done contrary to this Bylaw; or
 - .3 neglects or refrains from doing anything required by this Bylaw.
- .4 The maximum fine that may be imposed for a contravention of this Bylaw is ten thousand (\$10,000.00) dollars.
- .5 Each day during which an offence under this Bylaw continues is a new and separate offence.
- .6 Any penalty imposed pursuant to this Bylaw will be in addition to, and not in substitute for, any other penalty or remedy imposed pursuant to any other applicable statute, law, or legislation.

18.0 SEVERABILITY

- .1 If a portion of this bylaw is held invalid by a Court of competent jurisdiction, then the invalid portion must be severed, and the remainder of the bylaw is deemed to have been adopted without the severed section, subsection, paragraph, subparagraph, clause or phrase.

READ A FIRST TIME on the 5th day of November, 2024.

READ A SECOND TIME on the 10th day of December, 2024.

AMENDED AND READ A THIRD TIME on the 10th day of December, 2024.

RECONSIDERED AND FINALLY ADOPTED on the 14th day of January 2025.

"Laurie Hopfl"

Mayor

"Joni L'Heureux"

Corporate Officer

Time Period Schedule

Bylaw
2024-011

Description	Section	Time Period
1. Installation of a Backflow Preventers		
a. 2 inch and smaller devices		90 days from a notification issued by the District of Lillooet or other time frame as agreed to by the trustee
b. 2 inch and larger devices		90 days from a notification issued by the District of Lillooet or other time frame as agreed to by the trustee
c. Fire Sprinkler System Backflow Preventer		During the next system upgrade or significant piping changes as necessary to the fire sprinkler system*
2. Test required of an Approved Backflow Prevention Assembly	8.3	30 days
3. Repair of an Approved Backflow Prevention Assembly	8.5	30 days*