

FRASER VALLEY REGIONAL DISTRICT

BYLAW 1177, 2012

A bylaw to regulate cross connections for all water systems owned and/or operated by the Fraser Valley Regional District

WHEREAS, the *Drinking Water Protection Act* 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;

AND WHEREAS, the Board has established service areas for the distribution and supply of water within the Electoral Areas of the Fraser Valley Regional District;

AND WHEREAS, the Board deems it necessary and wishes to regulate cross connections in all water systems owned and or operated by the Fraser Valley Regional District;

NOW THEREFORE, the Board of the Fraser Valley Regional District enacts as follows:

1. CITATION

This Bylaw may be officially cited for all purposes as “Fraser Valley Regional District Water Systems Cross Connection Control Regulation Bylaw No. 1177, 2012”

2. PURPOSE

The purpose of this bylaw to protect the quality of the drinking water supplied to any person served by Fraser Valley Regional District water systems and to ensure that potential sources of contamination which could affect the health of the public are eliminated or prevented.

3. DEFINITIONS

In this Bylaw:

“Approved Backflow Prevention Assembly” means a backflow preventer that is designed to be tested and repaired in-line and to meet the design and installation criteria requirements of the CSA standards B64.10-07 / B64.10.1-07, or most current edition;

“Authorized Agent” includes a Person, Firm or Corporation representing the Fraser Valley Regional District by written consent;

“Auxiliary Water Supply” means any water available on or to a premise originating from a source or system, other than that from any Fraser Valley Regional District Water System;

“Backflow” The flow of water or other liquids, gases or solids from any source in the reverse direction back into the private water system or any Fraser Valley Regional District Water System;

“Backflow Assembly Test Report” means a form provided by or approved for use by the Fraser Valley Regional District to be used when testing backflow prevention assemblies to record all pertinent information and test data;

“Backflow Assembly Tester” means a person holding a valid certificate from the American Water Works Association, British Columbia Section for testing backflow prevention assemblies and approved by the Fraser Valley Regional District;

“Board” means the Fraser Valley Regional District Board of Directors;

“Building Inspector” means a person designated by the Board as a building inspector for the Fraser Valley Regional District to administer the building and plumbing regulations;

“Contaminant” means any physical, chemical, biological or radiological substance or matter in water which may render the water non-potable, according to the Province of British Columbia *Drinking Water Protection Act & Regulations*;

“Cross Connection” means any actual or potential physical connection whereby any Fraser Valley Regional District Water System is connected, directly or indirectly, with any non-potable or unapproved private water supply system, sewer, drain, conduit, well, pool, storage reservoir, plumbing fixture, or any other device which contains, or may contain contaminated water, liquid, gases, sewage, or other waste, or unknown or unsafe quality which may be capable of imparting contamination to the public water supply as a result of backflow;

“Cross Connection Control Program” means the Fraser Valley Regional District Cross Connection Control Program policies, procedures and specifications which provide references, guidelines, bulletins and amendments relevant to this bylaw;

“CSA” is the abbreviation for the Canadian Standards Association;

“Customer” means the Owner or Occupier of Real Property or an agent acting on behalf of the owner or occupier.

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

“Hydrant or Temporary Use Permit” means a permit issued by the Fraser Valley Regional District for any Person requesting water from a fire hydrant, stand pipe, or temporary water connection for purposes other than emergency fire protection;

“Inspect” means an on-site review of the water use, facilities, meters, piping, equipment, operating conditions and maintenance records for the purpose of evaluating for conformity with the terms and conditions of this bylaw;

“Occupier” means any person to whom a water service is rendered and shall include the tenant of lands and premises;

“Owner” means the registered owner, or the person named as the registered owner on the tax roll by reason of agreement for sales of any lands and premises situated within the

Fraser Valley Regional District boundaries and shall, where applicable, include the agent, executor or administrator of such owner or the lessee or occupier of the premises;

"Person" shall, in addition to its ordinary meaning, include a firm or partnership, company or corporation. In addition, throughout this bylaw where the context requires, the singular shall be held to mean and to include the plural and the masculine, the feminine or body corporate;

"Potable Water" means water that is fit for human consumption as defined in the *Drinking Water Protection Act* and Regulations;

"Private Water System" means any privately owned pipe and fittings intended for the delivery or distribution of water within a premise or to a property and includes any domestic use, irrigation system, greenhouse and hydroponics system, and any other use of water supplied by any Fraser Valley Regional District Water System;

"Service" means the supply of water by means of the water system;

"Service Connection Point" means the point of physical connection between the water system and the private water system. Typically the Service Connection Point is at the downstream side of the water meter and/or is located at or near the Owners property line;

"Turn Off" means to turn off the water supply by closing a Fraser Valley Regional District owned valve or curb stop by any other means approved by the Fraser Valley Regional District;

"Turn On" means to allow the flow of water by opening a Fraser Valley Regional District owned valve or by any other means approved by the Fraser Valley Regional District;

"Used Water" means any potable water which is no longer in the water distribution system including potable water that has moved downstream or past the Water Connection (water meter) and/or the property line to the private water system;

"Water System" means the pipe connecting any Water System of the Fraser Valley Regional District and all fittings and valves owned or maintained by the Fraser Valley Regional District provided to the property line on any street, lane, right-of-way or easement.

4. WATER SUPPLY AND PRESSURE

- 4.1 The Fraser Valley Regional District does not guarantee pressure or continuous supply of water, or accept responsibility at any time for the maintenance of pressure in its water mains or for increases or decreases in pressure. The Fraser Valley Regional District reserves the right at any and all times, without notice, to change operating water pressure and to turn off the water supply for the purposes of making repairs, extensions, alterations or improvements, or for any other reason.
- 4.2 The Fraser Valley Regional District, its officers, employees or agents shall not incur any liability of any kind what so ever by reason of the cessation in whole or in part of water pressure or water supply, or changes in operating pressures, or by reason of the water containing sediments, deposits, or other foreign matter.

- 4.3 Where steam or hot water boilers or other equipment is fed with water by pressure directly from the water system, the Fraser Valley Regional District shall not be liable for any injury or damage which may result from such pressure or from lack of such pressure or any injury or damage resulting from the improper installation of a backflow preventer.

5. INSPECTION

- 5.1 The Fraser Valley Regional District and/or Building Inspector or Authorized Agent shall be entitled, at its determination to:
- a. Access the private water system located on private property at all reasonable hours in order to carry out inspections and surveys of the premises to determine the existence of connections or cross connections prohibited by this bylaw and as stated in the Fraser Valley Regional District Cross-Connection Control Program.
 - b. 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 Fraser Valley Regional District Cross Connection Control Program.
 - c. Inspect the type of backflow preventer, the installation and state of maintenance and repair of the same;
- 5.2 No Customer or other person shall turn on a water valve to provide Service to the occupants of any newly renovated or constructed or reconstructed premise(s) until the private water system in such premise(s) has been inspected for Cross Connections and approved by the Building Inspector and /or the Fraser Valley Regional District

6. CONDITION OF SERVICE

- 6.1 Service supplied by the Fraser Valley Regional District to a Customer shall only be provided where, in the opinion of the Fraser Valley Regional District, the water system has been effectively protected from any actual or potential cross connections existing at or within the Customer's private water system.

7. CONTAMINATION

Subject to the provisions of this Bylaw:

- 7.1 No person shall create a cross connection by connecting, causing to be connected, or allowing to remain connected to any Fraser Valley Regional District water system, any device, piping, fixture, fitting, container, appliance or any other chattel or thing which may under any circumstances allow non-potable water, used water, wastewater or any chemical, liquid, gas or other substance to enter the water system.

8. CROSS CONNECTION CONTROL AND BACKFLOW PREVENTION

- 8.1 Where the Fraser Valley Regional District or authorized agent determines that there exists a connection or cross connection prohibited by this Bylaw and/or the Cross Connection Control Program, written notice may be given to the Customer to correct the connection or cross connection at the expense of the Customer within a specified time.

- 8.2 A Customer to whom notice has been given under this section shall eliminate or control the connection or cross connection by installing an Approved Backflow Prevention Assembly conforming to the CAN/CSA B64.10-07 or most current edition, for the selection, installation, maintenance and field testing of backflow preventers and the Fraser Valley Regional District Cross Connection Control Program Policies, Procedures and Specifications.
- 8.3 The Customer shall install a type of backflow preventer commensurate to the degree of hazard as established by CAN/CSA B64.10 or most current and that is approved by the Fraser Valley Regional District on the private water system at the location of the service connection point from the water system or other location(s) approved by the Fraser Valley Regional District.
- 8.4 Notwithstanding anything contained herein if, in the opinion of the Fraser Valley Regional District, the configuration of any water connection which creates a risk of contamination to the water system, the Customer, shall install on the private water system at the location of the service connection point from the water system an Approved Backflow Prevention Assembly, in addition to any backflow preventers installed in the Customer's private water system.
- 8.5 The failure to be sent a notice(s), or the failure to receive a notice(s), shall not excuse the mandatory duty of the Customer or other responsible party to comply with this Bylaw and/or the Fraser Valley Regional District Cross Connection Control Program and all other applicable bylaws.
- 8.6 Where any condition is found to exist which, in the opinion of the Fraser Valley Regional District, may otherwise expose the water system to risk of contamination, the Fraser Valley Regional District or authorized agent shall, at their discretion, take one or more of the following actions:
- a. Give notice to the Customer to correct the condition or cross connection(s) at the expense of the Customer within a specified time period; or
 - b. Notify the Customer that an approved Backflow Prevention Assembly shall be properly installed at the expense of the Customer; or
 - c. Turn off or Discontinued Service until the condition is corrected; or
 - d. Install an Approved Backflow Prevention Assembly at the Service Connection Point with all costs being charged to the Customer.
- 8.7 Any Customer whose water has been turned off pursuant to this Bylaw shall not have the water from any Fraser Valley Regional District Water Systems turned on until all requirements of the Fraser Valley Regional District have been met and the Customer has paid to the Fraser Valley Regional District all costs associated with the turn off / turn on of Service, and the Customer's default under this section has been remedied.

9. TESTING AND MAINTENANCE OF BACKFLOW PREVENTION ASSEMBLIES

- 9.1 The Customer shall provide to the Fraser Valley Regional District within thirty (30) days of initial installation, repair or relocation of an approved backflow prevention assembly a

Fraser Valley Regional District backflow assembly test report from a certified Backflow Assembly Tester confirming the following:

- a. The installation date of the Approved Backflow Prevention Assembly;
 - b. The specific location of the assembly and what cross connection or hazard it is intended to isolate;
 - c. The manufacturer, model, size and serial number of the backflow preventer installed; and
 - d. That it is an approved backflow prevention assembly, installed correctly and in proper operating condition.
- 9.2 Approved backflow prevention assemblies are required to be inspected and tested by a certified Backflow Assembly Tester, upon installation, after repair and at least once in every twelve (12) month period or more often if required by the Fraser Valley Regional District.
- 9.3 Where a Customer fails to have an Approved Backflow Prevention Assembly tested, the Fraser Valley Regional District may notify the Customer that the backflow prevention assembly must be tested within five (5) working days, or within a specified period agreed to by the Fraser Valley Regional District. If the Customer fails to comply with such notice the Fraser Valley Regional District or authorized agent shall discontinue service(s) and the Customer may be subject to penalties listed under this Bylaw.
- 9.4 Where there is a visible or other indication that a backflow prevention assembly is malfunctioning, it is the responsibility of the Customer to immediately notify the Fraser Valley Regional District, and further, to stop using the private water system until the backflow preventer is replaced or repaired and re-tested. This includes, but is not limited to, damage by: freezing, hot water, fire or otherwise due to neglect.

10. TEMPORARY WATER USE CONNECTION

- 10.1 Except for emergency fire use, No Person shall connect, cause to be connected, or allow to remain connected, any piping, fixture, fitting, container or appliance to a fire hydrant, stand pipe or any other temporary water connection:
- a. In a manner which, under any circumstances, may allow used water, wastewater or any liquid or substance of any kind to enter any Fraser Valley Regional District water systems; and
 - b. Without using an Approved Backflow Prevention Assembly which has been approved and installed in accordance with the Fraser Valley Regional District Cross Connection Control Program; and
 - c. Without first obtaining a Hydrant Use Permit.
- 10.2 Any Customer who violates this section will be refused access to Service through the use of a fire hydrant or temporary water connection and may be subject to penalties listed under this Bylaw and/or any other Policy or Bylaw of the Fraser Valley Regional District.

11. AUXILIARY WATER SUPPLIES

11.1 No connection shall be installed or maintained whereby water from an auxiliary water supply system may enter the water system or private water system unless such auxiliary water supply system and the method of connection and use of such system shall have been approved by the Fraser Valley Regional District.

12. PENALTY SECTION

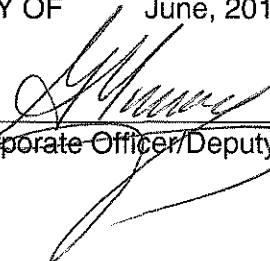
12.1 Every Customer who disobeys or fails to comply with any provision of this Bylaw shall be guilty of an offence and liable on summary conviction to a fine not exceeding Two Thousand Dollars (\$ 2,000.00). Each day that a violation continues to exist shall constitute a separate offence.

13. READINGS AND ADOPTION

READ A FIRST TIME THIS	26 th	DAY OF	June, 2012
READ A SECOND TIME THIS	26 th	DAY OF	June, 2012
READ A THIRD TIME THIS	26 th	DAY OF	June, 2012
ADOPTED THIS	26 th	DAY OF	June, 2012



Chair/Vice-Chair

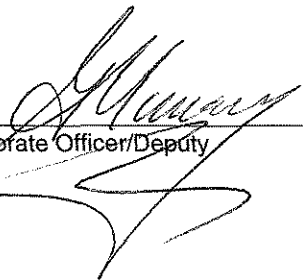


Corporate Officer/Deputy

13. CERTIFICATIONS

I hereby certify that this is a true and correct copy of Fraser Valley Regional District Cross Connection Control Regulation Bylaw No. 1177, 2012" as adopted by the Board of Directors of the Fraser Valley Regional District on the 26th day of June, 2012.

Dated at Chilliwack, B.C. this 27th day of June, 2012.



Corporate Officer/Deputy