

CROSS-CONNECTION CONTROL ORDINANCE
FOR THE CITY OF SUMMERSVILLE

1. Purpose

- A. To protect the public potable water supply served by the City of Summersville, dba Summersville Water Works from the possibility of contamination or pollution by isolating, within its customers internal distribution system, such contaminants or pollutants which could backflow or back-siphon into the public water system.
- B. To promote the elimination or control of existing cross-connections, actual or potential, between its customers in-plant potable water system and nonpotable systems.
- C. To provide for the maintenance of a continuing program of cross-connection control which will effectively prevent the contamination or pollution of all potable water systems by cross-connection.

II. Authority

- A. By the Federal Safe Drinking Water Act of 1974, and the Code of West Virginia Chapter 16, Article 1 and Public Health Laws, WV Bureau for Public Health Chapter 1, Article 5B, the water purveyor has the primary responsibility for preventing water from unapproved sources, or any other substances, from entering the public potable Water system.
- B. City of Summersville, dba, Summersville Water Works, Rules and Regulations, adopted.

III. Responsibility

The Water Purveyor shall be responsible for the protection of the public potable water distribution system from contamination or pollution due to the backflow or back-siphonage of contaminants or pollutants through the water service connection. If, in the judgment of

the Water Purveyor, an approved backflow device is required at the water service connection to any customer's premises, the Water Purveyor, or his delegated agent, shall give notice in writing to said customer to install an approved backflow prevention device at each service connection to his premises. The customer shall, within 90 days install such approved device or devices, at his own expense, and failure or refusal, or inability on the part of the customer to install said device or devices within ninety (90) days, shall constitute a ground for discontinuing water service to the premises until such device or devices have been properly installed.

IV. Definitions

A. Approved

Accepted by the Water Purveyor as meeting an application specification stated or cited in this regulation, or as suitable for the proposed purpose.

B. Auxiliary Water Supply

Any water supply, on or available, to the premises other than the purveyor's approved public potable water supply.

C. Backflow

The flow of water or other liquids, mixtures or substances, under positive or reduced pressure in the distribution pipes of a potable water supply from any source other than its intended source.

D. Backflow Preventer

A device or means designed to prevent backflow or back-siphonage. Most commonly categorized as air gap, reduced pressure principle device, double check valve assembly, pressure vacuum breaker, atmospheric vacuum breaker, hose bibb vacuum breaker, residential dual check, double check with intermediate atmospheric vent and barometric loop.

D1. Air Gap

A physical separation sufficient to prevent backflow between the free-flowing discharge end of the potable water system and any other system. Physically defined as a distance equal to twice the diameter of the supply side pipe diameter but never less than one (1) inch.

D2. Atmospheric Vacuum Breaker

A device which prevents back-siphonage by creating an atmospheric vent when there is either a negative pressure or sub-atmospheric pressure in a water system.

D3. Barometric Loop

A fabricated piping arrangement rising at least thirty-five (35) feet at its topmost point above the highest fixture it supplies. It is utilized in water supply systems to protect against back-siphonage.

D4. Double Check Valve Assembly

An assembly of two (2) independently operating spring loaded check valves with tightly closing shutoff valves on each side of the check valves, and properly located test cocks for the testing of each check valve.

D5. Double Check Valve with Intermediate Atmospheric Vent

A device having two (2) spring loaded check valves separated by an atmospheric vent chamber.

D6. Hose Bibb Vacuum Breaker

A device which is permanently attached to a loose bibb and which acts as an atmospheric vacuum breaker.

D7. Pressure Vacuum Breaker

A device containing one or two independently spring loaded check valves and an independently operated spring loaded air inlet valve located on the discharge side of the check or checks. The device

includes tightly closing shut-off valves on each side of the check valves and properly located test cocks for the testing of the check valve(s).

D8. Reduced Pressure Principle Backflow Preventer

An assembly consisting of two (2) independently operating approved check valves with an automatically operating differential relief valve located between the two (2) check valves, tightly closing shut-off valves on each side of the check valves plus properly located test cocks for the testing of the check valves and the relief valve.

D9. Residential Dual Check

An assembly of two (2) spring loaded, independently operating check valves without tightly closing shut-off valves and test cocks. Generally employed immediately downstream of the water meter to act as a containment device.

E. Backpressure

A condition in which the owner's system pressure is greater than the supplier's system pressure.

F. Back-Siphonage

The flow of water or other liquids, mixtures or substances into the distribution pipes of a potable water supply system from any source other than its intended source caused by the sudden reduction of pressure in the potable water supply system.

G. Containment

A method of backflow prevention which requires a backflow prevention device at the water service entrance.

H. Contaminant

A substance that will impair the quality of the water to a degree that it creates a serious health hazard to the public leading to poisoning or the spread of disease.

I. Cross-connection

Any actual or potential connection between the public water supply and a source of contamination or pollution.

J. Fixture Isolation

A method of backflow prevention in which a backflow preventer is located to correct a cross connection at an in-plant location rather than at a water service entrance.

K. Owner

Any person who has legal title to, or license to operate or reside in, a property upon which a cross-connection inspection is to be made or upon which a cross-connection is present.

L. Person

Any individual, partnership, company, public or private corporation, political subdivision or agency of the State Department, agency or instrumentality or the United States or any other legal entity.

M. Pollutant

A foreign substance, which if permitted to get into the public water system, will degrade its quality so as to constitute a moderate hazard, or impair the usefulness or quality of the water to a degree which does not create an actual hazard to the public health, but which does adversely and unreasonably affect such water for domestic use.

N. Water Purveyor

The Municipal Water Department, Water Board, Public Service District or other administrative authority invested with the authority and responsibility for the implementation of a cross-connection

control program and for the enforcement of the provisions of the Ordinance.

O. Water Service Entrance

That point in the owner's water system beyond the sanitary control of the Water Purveyor: generally considered to be the outlet end of the water meter and always before any unprotected branch.

Q. West Virginia Bureau for Public Health (WVBPH)

The State of West Virginia Bureau for Public Health.

V. Administration

- A. The Water Purveyor will operate a cross-connection control program, to include the keeping of necessary records, which fulfills the requirements of the WVBPH Cross-Connections and Backflow Prevention Regulations.
- B. The owner shall allow his property to be inspected for possible cross-connections and shall follow the provisions of the Water Purveyor's program and the WVBPH Regulations if a cross-connection is permitted.
- C. If the Water Purveyor requires that the public supply be protected by containment, the Owner shall be responsible for water quality beyond the outlet end of the containment device and should utilize fixture outlet protection for that purpose. He may utilize public health officials, or personnel from the Water Purveyor, or their designated representatives, to assist him in the survey of his facilities and to assist him in the selection of proper fixture outlet devices, and the proper installation of these devices.

VI. Requirements

A. Water Purveyor

- 1. On new installations, the Water Purveyor will provide on-site evaluation and/or inspection of plans in order to determine the type

of backflow preventer, if any, that will be required and will perform inspection and testing.

2. For premises existing prior to the start of this program, the Water Purveyor will perform evaluations and inspections of plans and/or premises and inform the owner by letter of any corrective action deemed necessary, the method of achieving the correction, and the time allowed for the correction to be made. Ordinarily, ninety (90) days will be allowed. However, this time period may be shortened depending upon the degree of hazard involved and the history of the device(s) in question.

3. The Water Purveyor will not allow any cross-connection to remain unless it is protected by an approved backflow preventer which will be regularly tested to insure satisfactory operation.

4. The Water Purveyor shall inform the Owner by letter of any failure to comply by the time of the first re-inspection. The Purveyor will allow an additional fifteen (15) days for the correction. In the event the Owner fails to comply with the necessary correction by the time of the second re-inspection, the Water Purveyor will inform the Owner by letter, that the water service to the Owner's premises will be terminated within a period not to exceed five (5) days. In the event that the Owner informs the Water Purveyor of extenuating circumstances as to why the correction has not been made, a time extension may be granted by the Water Purveyor, but in no case will exceed an additional thirty (30) days.

5. If the Water Purveyor determines at any time that a serious threat to the public health exists, the water service will be terminated immediately.

6. The Purveyor will begin initial premise inspections to determine the nature of existing or potential hazards. Initial focus will be on high hazard industries and commercial premises.

B. Owner

1. The Owner shall be responsible for the elimination or protection of all cross-connections on his premises.

2. The Owner, after having been informed by a letter from the Water Purveyor, shall at his expense, install, maintain and test, or have tested, any and all backflow preventers on his premises.
3. The Owner shall correct any malfunction of the backflow preventer which is revealed by periodic testing.
4. The Owner shall inform the Purveyor of any proposed or modified cross-connection and also any existing cross-connections of which the Owner is aware, but have not been found by the Water Purveyor.
5. The Owner shall not install a by-pass around any backflow preventer unless there is a backflow preventer of the same type on the bypass. Owners who cannot shut down operation for testing of the device(s) must supply additional devices necessary to allow testing to take place.
6. The Owner shall install backflow preventers in a manner approved by the Water Purveyor.
7. The Owner shall install only backflow preventers approved by the Water Purveyor or the WVBPH.
8. Any Owner having a private well or other private water source must have the approval of the Water Purveyor and the WVBPH if the well or source is cross-connected to the Water Purveyor's system. Permission to cross-connect may be denied. The Owner may be required to install a backflow preventer at the service entrance if a private water source is maintained, even if it is not cross-connected to the Water Purveyor's system.
9. In the event the Owner installs plumbing to provide potable water for domestic purposes which is on the Water Purveyor's side of the backflow preventer, such plumbing must have its own backflow preventer installed.
10. The Owner shall be responsible for the payment of all fees for permits, annual or semi-annual device testing, retesting in the case that

the device fails to operate correctly, and second re-inspections for non-compliance with Water Purveyor or WVBPH requirements.

Upon request, the Water Purveyor will submit records of inspection, surveys, tests or corrective actions to the West Virginia Bureau for Public Health.

First Reading: January 14, 2008

Second Reading: January 28, 2008

Adopted by City Council on: January 28, 2008.

Robert L. Shafer, Mayor

Marie Perry Parsons, Recorder