

## LIABILITY

If an improper plumbing connection caused a public health hazard, the responsible property owners and occupants may be held liable for damages.

## RESPONSIBILITY

Safeguarding West Allis drinking water is every one's responsibility.

Water supply systems and the connection of each plumbing fixture, piece of equipment, appliances or non-potable water system shall be designed, installed and maintained in such a manner to prevent the contamination of water supplies by the means of cross connections. SPS 382.41(3)

Thank you for being a partner in safe drinking water.



## DEFINITIONS

### Water Contamination

Improper plumbing connections on private property can contaminate the public water supply with harmful chemicals and/or bacteria.

### Backflow

Harmful chemicals and bacteria can pass through an unprotected cross connection when the flow within the plumbing reversed direction. This reverse flow or "backflow" can be caused by a heating system or any other system that operates at a higher pressure than the public water supply. Backflow can also be caused when a siphon is created by undersized piping or by an interruption of the water supply during plumbing or water utility repairs.

Since all water supplies are subject to back pressure and back siphonage, they need to be protected by a State of Wisconsin approved backflow prevention assembly, device or method.

### Backflow Prevention Assembly/Device

This is a device that is designed for and effective in preventing any foreign substance from the customer's premises from entering the potable water supply of the City of West Allis.

### Cross Connections

Defined as a connection or potential connection between any part of a water system and another environment containing substances in a manner that, under any circumstance, would allow the substances to enter the water supply system by means of back siphonage or back pressure.

# Commercial Cross Connection Control Program

## THE WEST ALLIS WATER SYSTEM AND YOU...



**PARTNERS  
IN SAFE  
DRINKING  
WATER**



## TYPICAL CROSS CONNECTIONS

Cross Connections are typically made by connecting the drinking water supply directly with the following plumbing fixtures:

- drink dispensers
- wash basins and service sinks
- lawn irrigation and sprinkler systems
- laboratory equipment (i.e. medical, industrial, etc.)
- hose bibbs
- processing tanks
- industrial fluid systems and compressors
- boilers; (i.e. hydronic, steam, etc.)
- water re-circulating systems  
cooling towers, chillers and ice machines
- swimming pools
- solar heating systems
- fire sprinkler systems
- stand pipe systems
- auxiliary water supplies, private
- wells water conditioners  
(This is not an exhaustive list.)

## CROSS CONNECTION CONTROL PROGRAM

The purpose of the program is to safeguard the public water supply from backflow occurrences at the water service. Under the City of West Allis cross connection control program, City personnel may inspect your facilities to ensure compliance with this program. A survey of your premise is required by both the State of Wisconsin DNR and the City of West Allis. Backflow Protection is required on all commercial/industrial premise connections to the water service (i.e. domestic, fire, irrigation, other, etc.)

## INFORMATION

For more information, please check in at [www.westalliswi.gov/BINS/CrossConnection](http://www.westalliswi.gov/BINS/CrossConnection)



## TESTABLE DEVICES

The owner/tenant must have testable backflow prevention assemblies tested and registered upon installation and each year thereafter to ensure that they function properly. A list of State of Wisconsin Certified cross connection control device testers is available at [dsps.wi.gov](http://dsps.wi.gov). Test results shall be forwarded to State of Wisconsin and City of West Allis. Testing and registration are required by the State of Wisconsin Plumbing Code SPS 382.20(13) and SPS 382.22(8). The cost to test the assembly is the responsibility of the owner.



ASSE 1056



Reduced Pressure Principle  
Assembly ASSE 1013



ASSE 1013



ASSE 1020



Fire Sprinkler  
System ASSE 1015

## FIRE SPRINKLER SYSTEM

Assemblies on fire sprinkler lines need to be tested by an Approved Fire Sprinkler Contractor registered with the State of Wisconsin.

## NON-TESTABLE DEVICES



Approved Air Gap (A.G.)



ASSE 1022



ASSE 1001



ASSE 1012



ASSE 1011

## **City of West Allis**

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[www.westalliswi.gov](http://www.westalliswi.gov)