

CAUTION

Areas where cross-connections are a concern:

Residential:

- Basement & Outdoors
- Hose Connections
- Sprinkling Systems
- Swimming Pool
- Hot Tub or Spa
- Chemical/Photography Lab Facilities
- Livestock Waterers or Tank Fillers

Leisure Areas:

- Campgrounds
- County Fairgrounds
- Parks & Playgrounds
- Golf Courses
- Swimming Pools
- Fountains
- Recreation Waterfront Areas
- Travel Trailer Connections

Commercial & Industrial:

- Bottling Plants
- Heating & Cooling Systems
- Mixing Tanks
- Paint & Ink Mills
- Plating Works
- Mortuaries
- Printing Plants
- Vet Clinics
- Hydraulically Operated Equipment

CROSS-CONNECTION HAZARD

After using a hose attachment to spray his lawn for weeds, Bob disconnected the attachment and took a drink of water from the hose. A short time later Bob became ill.

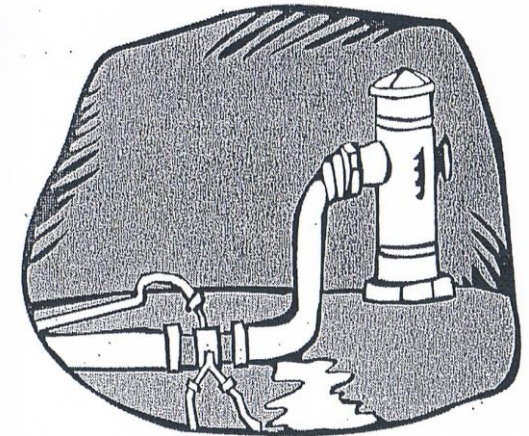
What Happened?

At some time while Bob was spraying the weed killer, the water pressure dropped and the poison he was spraying on the lawn was drawn back into the hose. When Bob took a drink from the hose, he drank water mixed with weed killer.

If Bob had a hose bibb vacuum breaker on his hose connection, he could have prevented this cross-connection.

If you have any questions about cross-connection and backflow prevention, call the Garden City Public Works Department at (435) 946-2901.

Cross- Connection & Backflow Prevention



DEFINITIONS

Cross- Connection

Any actual or potential connection between the drinking water supply and a source of contamination or pollution. All cross-connections need backflow preventers.

Backflow Preventer

A device or process that prevents impurities or contaminants from being drawn into the drinking water supply. There are non-testable and testable backflow preventers.

Hose Bibb Vacuum Breaker (HVB)

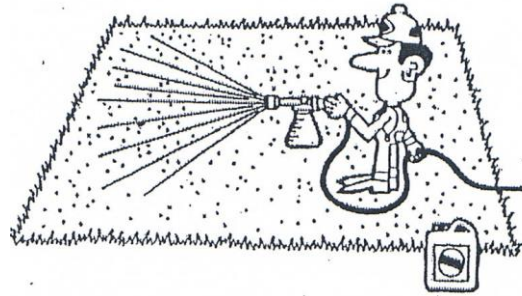
Needed on all hose connections, HVB's are fairly inexpensive and easy to install. They can be purchased where plumbing supplies are sold. For best results get a *freeze proof, self-draining hose bibb vacuum breaker. This type of backflow preventer does not need to be tested annually. Homes built within the last three years should already be equipped with a Hose Bibb Vacuum Breaker on all hose connections.

Pressure Vacuum Breaker (PVB)

Typically found on underground water sprinkling systems, the PVB is a backflow preventer which is equipped with test ports. Plumbing Code requires annual PVB testing by a Certified Backflow Inspector.

CROSS-CONNECTION

Potential cross-connections requiring non-testable backflow preventers:



A hose sprayer which uses water pressure to draw chemicals, like weed killer, into a stream of water or a hose submerged in a bucket, pool or sink.



Hose Bibb Vacuum Breaker

In these examples, cross-connections can be prevented by installing a Hose Bibb Vacuum Breaker. The HVB will prevent the contaminant from being drawn back into the drinking water supply if a change in water pressure occurs. **Remember... never submerge a hose in a bucket, pool, tub or sink!**

PREVENTION

Potential cross-connection requiring testable backflow preventers:



Underground Sprinkling System or In-ground Swimming Pool



Pressure Vacuum Breaker

In these examples, a cross-connection can be prevented by a pressure Vacuum Breaker backflow preventer, either built in or added on. The PVB comes equipped with test ports. Plumbing Code requires that a PVB be tested annually. If you have questions or concerns call the Garden City Public Works Department at (435) 946-2901.