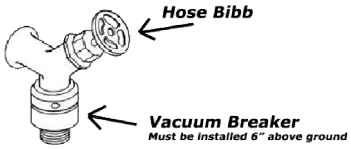
Village of Deerfield

Cross Connection Control

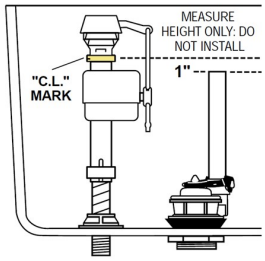
All customers within the Deerfield Water System will start receiving notice in 2021-22 for cross connection inspection. Deerfield is implementing a new cross connection control plan starting in 2021, in accordance to Michigan Environment, Great Lakes, and Energy (EGLE).

EGLE has started requiring water providers to elevate the awareness of potential hazards that cross connections pose to the public water system. In the past we were only required to inspect high risk commercial properties. Under the new recommendations we will be inspecting all properties even residential. These inspections will be performed by Hydro-Corp. We have contracted them to handle the management of our cross connection control program. As a water provider it is our responsibility to have a comprehensive cross connection control program for the elimination and prevention of all cross connections. A cross connection is an arrangement of piping which could allow undesirable water, bacteria, and chemicals to enter your drinking (potable) water system as a result of backflow. Some common examples include:

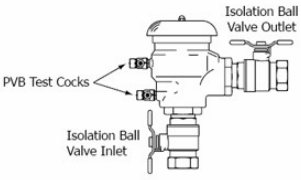
- **Sinks:** Maintain an air gap of at least twice the diameter of the supply pipe above the flood level rim of the receptacle.
- **Hose Bibs:** Install a hose connection vacuum breaker conforming to ASSE 1011 (approved for outdoor use) on the hose bib or install a sillcock that conforms to ASSE 1019.



- **Sump Pump:** Most water operated backup sump pumps are required to have a reduced pressure principle backflow preventer that conforms to ASSE 1013 installed on the water supply to the pump.
- **Toilets:** Install an anti-siphon fill valve in the toilet tank. Pay close attention to the instructions to make sure the critical level mark is at least 1" above the overflow tube as shown here.



- **Boilers:** Low pressure non-treated boilers may be protected against backflow by a double check valve with an intermediate atmospheric vent conforming to ASSE 1012. Chemically treated boilers are required to be protected against backflow with a reduced pressure principle backflow preventer that conforms to ASSE 1013.
- **Lawn Irrigation System:** Most lawn irrigation systems are requires to be protected against backflow by a pressure vacuum breaker conforming to ASSE 1020 or by a reduced pressure principle backflow preventer conforming to ASSE 1013. However, some irrigation systems are designed with atmospheric vacuum breakers which must be installed down stream of all valves.



Pressure Vacuum Breaker

Backflow Preventer Testing: Pressure vacuum breakers and reduced pressure principle backflow preventers are required to be tested a minimum of once every three years but recommended yearly. The test must be completed by an ASSE certified backflow tester which most plumbing companies and several other companies in the water industry employ.

How can I eliminate cross connections: Cross connections can be eliminated by making sure each point of use is protected against backflow. This can be accomplished by maintaining air gaps or installing required backflow preventers, so undesirable water is not able to enter the potable water supply piping. Homeowners that get their drinking water from a public water supply are required by the "Michigan Safe Drinking Water Act" to maintain their plumbing system in a matter free of cross connections.

Questions & Information: Call the water filtration plant at (517)447-3158, M-F 7:00a.m.-3:30p.m., visit: hydrocorpinc.com, or stop into the village office and pick up an informational flyer

**Please wait until your inspections are completed before making any improvements you think you may need. If changes to your plumbing are needed, they will provide you with the exact changes needed.