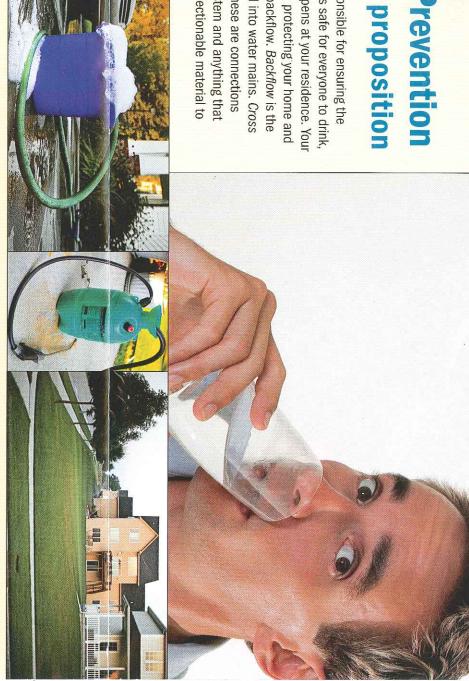
## **Backflow Prevention**

## S a two-way proposition

between the potable water system and anything that could allow dangerous and objectionable material to water utility needs your help in protecting your home and the public water system from backflow. *Backflow* is the enter the water supply lines connections allow backflow. These are connections reverse flow of foreign material into water mains. Cross but it cannot control what happens at your residence. Your Your water department is responsible for ensuring the water delivered to your home is safe for everyone to drink



outside faucet with the open end in another container are a common cause of backsiphonage. Backpressure occurs when the pressure Backsiphonage happens when there is negative pressure in a pipe, creating a vacuum, and something foreign is sucked into the water the utility water main. This can happen when your hot water heater overheats, creating a high-pressure situation. the utility water main. in your home plumbing is greater than the pressure coming in from or a power outage to a pump. Household hoses connected to an or a water main break, customer demand during a heat wave supply. The vacuum may be caused by high demand from firefighting Backflow events occur because of backsiphonage or backpressure.



A hose bibb is an easy way to protect home plumbing from backsiphonage.

## Consider these real situations:

- While a resident was filling a pesticide sprayer with a garden hose, in the pesticide, the pesticide was sucked back into the hose and into the water supply. A short time later, the resident, as well as several neighbors, became ill after drinking water from the faucets in their homes. the water pressure dropped. Because the hose end was immersed
- on the residential irrigation system. When a nearby water main break caused a vacuum in the public water system, dirty, wormy water was Parasitic worms were discovered in the domestic water of two homeowners. Water backsiphoned through a residential irrigation system sucked from the irrigation system into the public water system. into the public water system because of a faulty backflow preventer

Chemicals such as those used to fertilize your lawn and those used for cleaning around your house can cause a variety of serious health problems if ingested. may be hazardous if consumed. Even chlorinated pool water can contain bacteria that Irrigation water is often untreated and unsafe to drink

Fortunately, keeping your water safe from these following precautions to protect your drinking water: contaminants, and others like them, is easy. Take the

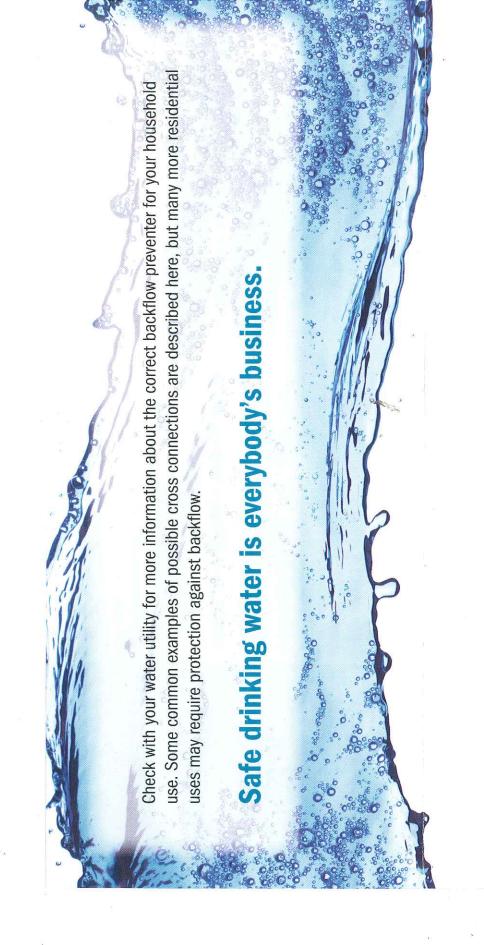
contaminants. An *air gap* of two inches (25 mm) or more between the hose end and the receptacle is the safest and simplest way of preventing backflow and back-siphonage. Think of how a sink faucet is designed to be above the overflow rim. ALWAYS: Keep hose ends clear of possible

sinks or other containers.

NEVER: Submerge hoses in buckets, pools, tubs,

and can be fatal if ingested. chemicals used on your lawn or for cleaning are toxic on hoses without a backflow prevention device. The DON'T: Use spray attachments containing chemicals

such as a reduced-pressure principle device source, like the irrigation water in the real life example above, you will need to install a backflow preventer, at hardware stores and home improvement centers. around your home (see photo left). They are available drinking water is in any way connected to another Installation only takes a couple of minutes. If your DO: Buy and install inexpensive backflow-prevention called hose bibbs, for all threaded faucets



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Backflow Prevention is a two-way proposition

Help keep your drinking water safe

