

SURPRISE BACKFLOW ORDINANCE

DIVISION 5. CROSS-CONNECTION CONTROL AND PREVENTION

Sec. 58-255. Contamination.

The city shall be responsible for the protection of the city owned public drinking water supply systems from contamination cross connection through the customer's water services connection in accordance with the Arizona Administrative code, Title 18 Environmental Quality, [Chapter 4](#) Department of Environmental Quality.

(1) In accordance with Article 215 Backflow Prevention § R18-4-215 or in the judgment of the city, if a water connection requires an approved backflow prevention device for the safety of the city owned public drinking water systems notice will be given to the water customer requiring the installation of such device. The water customer at their own expense shall install or have installed an approved device at a location and in a manner in accordance with state rule, and all applicable local regulations. Backflow prevention devices shall have an inspection and test performed on the device upon installation, annually or as requested by the city.

(Ord. No. 2012-06, § 1, 5-8-2012)

Sec. 58-256. Policy and application.

(a) It is the city's policy is to promote the elimination of actual or potential cross-connections between potable water systems and non-potable water systems, plumbing fixtures and other sources or systems containing substances of unknown or questionable risk to the public drinking water supply.

(b) The city will provide for the development and maintenance of a cross-connection control program which will prevent the actual or potential contamination or pollution of the public potable water supply systems.

(c) Provisions of this article shall apply to all premises served by the City of Surprise Drinking Water Systems.

(Ord. No. 2012-06, § 1, 5-8-2012)

Sec. 58-257. Cross-connection prohibited.

(a) No person, firm or corporation that is connected to the city owned public water system shall establish or permit to be established or maintain or allow to be maintained any connection to a private, auxiliary, or emergency water supply unless such private, auxiliary or emergency water supply and use of such supply is approved by the city.

(b) Any connection or link between drinking water systems and other systems or equipment containing water or substances of potential contamination are prohibited except when and where approved cross-connection control device are installed, tested and maintained to ensure proper operation on a continual basis.

(c) No physical connection shall be permitted between the any drinking water supply and waste system, reclaimed water, or other contaminant that may cause a health and safety risk to the city's drinking water system.

(d) There shall be no arrangement or connection by which an unsafe substance or hazard may enter the city's public drinking water system.

(Ord. No. 2012-06, § 1, 5-8-2012)

Sec. 58-258. Surveys and investigation. 

(a) The city has the right to perform surveys and investigation on any property served by the city owned public drinking water system to determine if an actual or potential hazard to the city owned public drinking water supply may exist.

(b) Record of all inspection and investigation shall be maintain by the city and available for review for a period of at least three years. It is the responsibility of the water consumer to prevent backflow into the public drinking water systems by ensuring the following:

(1) All cross-connection potentials are removed, or approved cross-connection devices are installed for control of backflow.

(2) Cross-connection control devices are installed in accordance with the manufacturers, states and city's requirements.

(3) Cross-connection control devices are inspected and tested at time of installation, annually, and as requested by the city. All inspections shall be performed by a certified tester that is on the city's approved list of testers.

(4) When a device has been removed or disconnected, inspection and testing must be performed by a certified tester that is on city's approved list of testers.

(5) The inspection of the mechanical devices shall include physical testing in accordance with manufacturer's instruction.

(Ord. No. 2012-06, § 1, 5-8-2012)

Sec. 58-259. Records. 

(a) It is the responsibility of the property owner where backflow prevention devices are installed, to have inspection, tests, maintenance and repairs made in accordance with these regulations.

(b) A copy initial and requested testing reports must be submitted to the city within 48 hours of the testing procedure. Test reports for the annual recertification must be submitted within ten working days of the required renewal date.

(c) All testing reports must be on a city approved form and shall contain the date of the test, name of tester, the tester's certification number and test results must be listed on each report. The city will not accept a failed testing report as a completed testing report.

(d) Testing shall be performed by a person who has been certified by an organization recognized by the Arizona Department of Environmental Quality.

(e) The tester shall be on the city's approved testers list at the time the test is performed.

(f) If a backflow prevention device is found to be defective it shall be repaired or replaced at the owner's expense without delay.

(g) A backflow prevention device shall not be bypassed at any time.

(Ord. No. 2012-06, § 1, 5-8-2012)

Sec. 58-260. Backflow device installation required. 

(a) An approved backflow device shall be installed on all commercial and industrial connections to the city owned public drinking water systems.

(b) An approved backflow prevention device shall be installed on any service from the city's public drinking water system where in the judgment of the city it is determined that the backflow device is necessary for the protection of the city's water system.

(c) If a backflow prevention device is require by the city, the water customer at the premises shall have an approved device installed, tested, and submit documentation of such to the city within 45 days of being informed of the requirement unless the city determines that the a more timely response is required to protect the city owned public water systems.

(d) An approved backflow prevention device shall be installed on all services line to consumer's water system including but limited to:

(1) Premises having auxiliary water supply unless such auxiliary supply is approved by the city.

(2) Premises being use for business purposes in a residential zoning location that the city determines based on inspection or plan review that the site requires a device to be installed.

(3) Premises on which any substance is handled which may create an actual or potential hazard to the city owned public drinking water system. This shall include premise having sources or systems containing waters originating from public drinking water supply system which are no longer under control of the of city.

(4) Premises having internal cross-connection that, in the judgment of the city are not correctable or that have intricate plumbing arrangements which make it impractical to determine whether or not cross-connection exist.

(5) Premises where because of security requirements or other prohibitions or restrictions, it is impossible or impractical to make a complete cross-connection survey.

(6) Premises having a repeated history of cross-connections being established or reestablished.

(e) An approved backflow device shall be installed at the following types of facilities, but not limited to:

- (1) Significant industrial user (as defined by federal statute).
- (2) Industrial user (as defined by federal statute).
- (3) Hospitals, mortuaries, clinics, nursing homes.
- (4) Laboratories.
- (5) Piers, docks, waterfront facilities.
- (6) Sewage treatment plants, sewage pumping station or storm water pumping stations.
- (7) Food or beverage processing plants.
- (8) Chemical plants.
- (9) Metal plating industries.
- (10) Petroleum processing or storage.
- (11) Radioactive material processing plants or nuclear reactors.
- (12) Car washes.
- (13) Pesticide, or herbicide or extermination facilities or associated activities such as filling of trucks, tanks, and equipment.
- (14) Farm service and fertilizer plants and equipment.
- (15) Water trucks, trucks with a water storage tank, and trailers with water storage tanks.
- (16) Campsites that have disposal facilities.
- (17) Trailer parks, outdoor storage that have disposal facilities.

(Ord. No. 2012-06, § 1, 5-8-2012)

Sec. 58-261. Type of protection required. 

(a) The type of protection required under subsections [58-260](#)(d)(1) through (7) of this section shall depend the degree of hazard which exists as follows:

- (1) There shall not be a direct or indirect connection of the city owned public drinking water to any non-potable source or any source that has or may have the potential to create a health hazard.
- (2) An approved fixed, proper air gap separation shall be installed where the use of contaminated substances could cause a health hazard.

(3) An approved, fixed proper air gap separation, or an approved reduced pressure principle backflow prevention assembly shall be installed where the public drinking water supply may be contaminated with a substance that could cause a health hazard

(b) An approved, fixed proper air gap separation, or an approved, reduced pressure principle backflow prevention assembly or double check valve assembly shall be installed where the public drinking water supply may be polluted with substances that could cause a pollution hazard not dangerous to health. The type of protection required under subsections [58-260\(d\)\(4\)](#) and (5) of this section shall [be] an approved, fixed proper air gap separation or an approved, reduced pressure principle backflow device.

(Ord. No. 2012-06, § 1, 5-8-2012)

Sec. 58-262. Backflow prevention devices. 

(a) Backflow prevention devices or methods required by this Code shall be approved, as stated Arizona Administrative Code R18-4-215.D

(b) Installation of approved devices shall be made in accordance with city "Engineering Development Standards" and only as specified by the "Research for Cross Connection Control of the University of Southern California". Maintenance shall be performed as recommended by the manufacturer of the device. The manufacturer's maintenance manual shall be available on site at all times.

(Ord. No. 2012-06, § 1, 5-8-2012)

Sec. 58-263. Booster pumps. 

Where a booster pump has been installed on a service line to/or within any premise such pump shall be equipped with a reduced pressure principle backflow prevention assembly on the suction side of the pumps.

(Ord. No. 2012-06, § 1, 5-8-2012)

Sec. 58-264. Discontinuation of service. 

(a) The city is authorized to discontinue water services to any property in violation of this article after reasonable notice has been provided to the customer.

(b) In cases of emergency situations or where other precautionary measures are deemed necessary to eliminate any actual or potential contamination of the city owned public drinking water system no notice is required.

(c) In the case of disconnection water services to a property in accordance to this Code shall not be restored until the contamination, hazard, or violation have been eliminated or corrected pursuant this article.

(d) The city shall not be liable for injury, damages or lost of revenue which may result from termination of said customer's water supply in accordance with the terms of this article.

(Ord. No. 2012-06, § 1, 5-8-2012)

Sec. 58-265. Violations. 

(a) The city has the authority to deny, discontinue, or disconnect water service after reasonable notice to the customer or owner of a premise, where any backflow prevention device required by this Codes is not installed, tested, maintained or repaired in a manner as required by City Code, city standards or if found that the backflow prevention device has been bypassed or removed, or if an unprotected cross-connection exists on the premises.

(b) Where water service has been ceased or denied water service shall not be connected or restored until the customer or owner has corrected or eliminated such conditions or defects in conformance with this article.

(c) A reconnection fee for expenses incurred for disconnecting and reconnecting the water service may be required. This fee is separate from any other fines or costs associated with compliance of this Code.

(d) The customer responsible for a backflow situation shall bear the cost of all corrective actions necessary to restore the potable water supply system to normal operating condition.

(e) The responsible party shall be liable for all claims that may result from contamination of the public water supply system that occurs though an illegal cross-connection or an improperly installed, maintained, repaired device, or where a device has been bypassed or improperly used.

(Ord. No. 2012-06, § 1, 5-8-2012)

Secs. 58-266—58-274. Reserved.