

AN ORDINANCE ESTABLISHING CROSS CONNECTION CONTROL.

**BE IT ORDAINED BY THE BOARD OF ALDERMEN OF THE CITY OF
ARCADIA, MISSOURI, as follows:**

Section 1. Cross Connection Control - General Policy

(A.) Purpose. The purpose of this ordinance is:

1. To protect the public potable water supply from contamination or pollution by containing within the consumer's internal distribution system or private water system contaminants or pollutants which could backflow through the service connection into the public potable water supply system.
2. To promote the elimination, containment, isolation, or control of existing cross connections, actual or potential, between the public or consumer's potable water system and non-potable water systems, plumbing fixtures, and industrial- process systems.
3. To provide for the maintenance of a continuing program of cross connection control which will systematically and effectively prevent the contamination or pollution of all potable water systems.

(B.) Application. This ordinance shall apply to all premises served by the public potable water system of the City of Arcadia

(C.) Policy. This ordinance will be reasonably interpreted by the water purveyor. It is the water purveyor's intent to recognize the varying degrees of hazard and to apply the principle that the degree of protection shall be commensurate with the degree of hazard.

The water purveyor shall be primarily responsible for protection of the public potable water distribution system from contamination or pollution due to backflow or contaminants or pollutants through the water service connection. The cooperation of all consumers is required to implement and maintain the program to control cross connections. The water purveyor and consumer are jointly responsible for preventing contamination of the water system.

If, in the judgment of the water purveyor or his authorized representative, cross connection protection is required through either piping modification or installation of an approved backflow prevention device, due notice shall be given to the consumer. The consumer shall immediately comply by providing the required pro-

tection at his own expense; and failure, refusal, or inability on the part of the consumer to provide such protection shall constitute grounds for discontinuing water service to the premises until such protection has been provided

Section II. Definitions

- (A.) The definitions listed in Appendix A shall apply in the interpretation and enforcement of this ordinance.

Section III. Cross Connections Prohibited

- (A.) No water service connection shall be installed or maintained to any premises where actual or potential cross connections to the public potable or consumer's water system may exist unless such actual or potential cross connections are abated or controlled to the satisfaction of the water purveyor, and as required by the laws and regulations of the Missouri Department of Natural Resources.
- (B.) No connection shall be installed or maintained whereby an auxiliary water supply may enter a public potable or consumer's water system unless such auxiliary water supply and the method of connection and use of such supply shall have been approved by the water purveyor and the Missouri Department of Natural Resources.
- (C.) No water service connection shall be installed or maintained to any premises in which the plumbing system, facilities, and fixtures have not been constructed and installed using acceptable plumbing practices considered by the water purveyor as necessary for the protection of health and safety.

Section IV. Survey and Investigations

- (A.) The consumer's premises shall be open at all reasonable times to the water purveyor or his authorized representative, for the conduction of surveys and investigations of water use practices within the consumer's premises to determine whether there are actual or potential cross connections to the consumer's water system through which contaminants or pollutants could backflow into the public potable water system.
- (B.) On request by the water purveyor or his authorized representative, the consumer shall
furnish information on water use practices within his premises.
- (C.) It shall be the responsibility of the water consumer to conduct periodic surveys of water use practices on his premises to determine whether there are actual or potential cross connections to his water system through which contaminants or pollutants could backflow into his or the public potable water system.

Section V. Type of Protection Required

(A.) The type of protection required by this ordinance shall depend on the degree of hazard which exists, as follows:

1. An approved air gap separation shall be installed where the public potable water system may be contaminated with substances that could cause a severe health hazard.
2. An approved air gap separation or an approved reduced pressure principle backflow prevention assembly shall be installed where the public potable water system may be contaminated with a substance that could cause a system or health hazard.
3. An approved air gap separation or an approved reduced pressure principle backflow prevention assembly or an approved double check valve assembly shall be installed where the public potable water system may be polluted with substances that could cause a pollution hazard not dangerous to health.

Section VI. Where Protection is Required

(A.) An approved backflow prevention assembly shall be installed on each service line to a customer's water system serving premises where, in the judgment of the water purveyor or the Missouri Department of Natural Resources, actual or potential hazards to the public potable water system exist. The type and degree of protection required shall be commensurate with the degree of hazard.

(B.) An approved air gap separation or reduced pressure principle backflow prevention assembly shall be installed at the service connection or within any premises where, in the judgment of the water purveyor or the Missouri Department of Natural Resources, the nature and extent of activities on the premises, or the materials used in connection with the activities, or materials stored on the premises, would present an immediate and dangerous hazard to health should a cross connection occur, even though such cross connection may not exist at the time the backflow prevention device is required to be installed. This includes but is not limited to the following situations:

1. Premises having an auxiliary water supply, unless the quality of the auxiliary supply is acceptable to the water purveyor and the Missouri Department of Natural Resources.
2. Premises having internal cross connections that are not correctable, or intricate plumbing arrangements which make it impractical to ascertain whether or not cross connections exist.
3. Premises where entry is restricted so that inspection for cross connections cannot be made with sufficient frequency or at sufficiently short notice to assure the

cross connections do not exist.

4. Premises having a repeated history of cross connections being established or reestablished.
 5. Premises, which due to the nature of the enterprise therein, are subject to recurring modification or expansion.
 6. Premises on which any substance is handled under pressure so as to permit entry into the public water supply, or where a cross connection could reasonably be expected to occur. This shall include the handling of process waters and cooling waters.
 7. Premises where materials of a toxic or hazardous nature are handled such that if backsiphonage or backpressure should occur, a serious health hazard may result.
- (C.) The types of facilities listed in Appendix B fall into one or more of the categories of premises where an approved air gap separation or reduced pressure principle backflow prevention assembly is required by the water purveyor and the Missouri Department of Natural Resources to protect the public water supply and must be installed at these facilities unless all hazardous or potentially hazardous conditions have been eliminated or corrected by other methods to the satisfaction of the water purveyor and the Missouri Department of Natural Resources.

Section VII. Backflow Prevention Assemblies

- (A.) Any backflow prevention assembly required to protect the facilities listed in Appendix B shall be of a model or construction approved by the water purveyor and the Missouri Department of Natural Resources.
1. Air gap separation to be approved shall be at least twice the diameter of the supply pipe, measured vertically above the top rim of the vessel, but in no case less than one inch.
 2. A double check valve assembly or a reduced pressure principle backflow prevention assembly shall be approved by the water purveyor, and shall appear on the current "list of approved backflow prevention assemblies" established by the Missouri Department of Natural Resources.
- (B.) Existing backflow prevention assemblies approved by the water purveyor at the time of installation and properly maintained shall, except for inspection and maintenance requirements, be excluded from the requirements of this ordinance so long as the water purveyor is assured that they will satisfactorily protect the water system. Whenever the existing assembly is moved from its present location, or

requires more than minimum maintenance, or when the water purveyor finds that the maintenance constitutes a hazard to health, the unit shall be replaced by a backflow prevention assembly meeting the requirements of this ordinance.

Section VIII. Installation

- (A.) Backflow prevention assemblies required by this ordinance shall be installed at a location and in a manner approved by the water purveyor and shall be installed at the expense of the water consumer.
- (B.) Backflow prevention assemblies installed on the service line to the consumer's water system shall be located on the consumer's side of the water meter, as close to the meter as is reasonably practical, and prior to any other connection.
- (C.) Backflow prevention assemblies shall be located so as to be readily accessible for maintenance and testing, protected from freezing. No reduced pressure principle backflow prevention assembly shall be located where it will be submerged or subject to flooding by any fluid.

Section IX. Inspection and Maintenance

- (A.) It shall be the duty of the consumer at any premises on which backflow prevention assemblies required by this ordinance are installed to have inspection, tests, and overhauls made in accordance with the following schedule or more often where inspections indicate a need.
 - 1. Air gap separations shall be inspected at the time of installation and at least every twelve months thereafter.
 - 2. Double check valve assemblies shall be inspected and tested for tightness at the time of installation and at least every twelve months thereafter.
 - 3. Reduced pressure principle backflow prevention assemblies shall be inspected and tested for tightness at the time of installation and at least every twelve months thereafter.
- (B.) Inspections, tests, and overhauls of backflow prevention assemblies shall be made at the expense of the water consumer and shall be performed by a State of Missouri certified backflow prevention assembly tester.
- (C.) Whenever backflow prevention assemblies required by this ordinance are found to be defective, they shall be repaired or replaced at the expense of the consumer without delay.
- (D.) The water consumer must maintain a complete record of each backflow prevention

assembly from purchase to retirement. This shall include a comprehensive listing that includes a record of all tests, inspections, and repairs. Records of inspections, tests, repairs, and overhauls shall be made available to the water purveyor upon request.

- (E.) Backflow prevention assemblies shall not be bypassed, made inoperative, removed, or otherwise made ineffective.

Section X. Violations

- (A.) The water purveyor shall deny or discontinue, after reasonable notice to the occupants thereof, the water service to any premises wherein any backflow prevention assembly required by this ordinance is not installed, tested, and maintained in a manner acceptable to the water purveyor, or if it is found that the backflow prevention assembly has been removed or bypassed, or if an unprotected cross connection exists on the premises.
- (B.) Water service to such premises shall not be restored until the consumer has corrected or eliminated such conditions or defects in conformance with this ordinance to the satisfaction of the water purveyor.


Section XI. Repeal of conflicting ordinance

All ordinances or parts or ordinances in conflict with any of the provisions of the Ordinance are hereby repealed insofar as the same are in conflict with the provisions of this Ordinance.

Section XII. Effective Date

This Ordinance shall be in force and effect upon its passage and approval.

WHEREUPON, this ordinance was read three times and approved by vote of the Board of Aldermen of the City of Arcadia, Missouri on this 10th day of May 1999.


Roy Carr
Roy Carr, Mayor

ATTEST:

Mary Johnson
Mary Johnson, City Clerk