



**TRIVIEW METROPOLITAN DISTRICT
WATER BACKFLOW POLICY
Adopted March 20, 2025**

I. Purpose

- A. The purpose of this Policy is to protect the District water distribution system from contaminants or pollutants that could enter the distribution system by Backflow from a customer's Water Supply System through the service connection.

II. Authority

The authority to implement this Policy is contained in the following statute, legislation, regulations, and acts:

- A. Article 1-114 and Article 1-114.1 of Title 25 of the Colorado Revised Statutes (C.R.S.).
- B. Section 39 of 5 C.C.R. 1002-11, Colorado Primary Drinking Water Regulations
- C. Colorado Plumbing Code.

The District shall have the authority to survey all service connections within the distribution system to determine if the connection is a Cross-Connection.

The District shall have the authority to control all service connections within the distribution system if a connection is a Cross-Connection.

The District may control any service connections within the distribution system in lieu of a survey as long as the service connection is Controlled with an Air Gap or reduced pressure zone Backflow Prevention Assembly.

The District may collect fees for the administration of this program.

The District shall maintain records of Cross-Connection surveys and the installation, testing, and repair of all Backflow Prevention Assemblies installed for Containment and Containment by Isolation purposes.

Except as otherwise provided herein, the District shall administer, implement, and enforce the provisions of this Policy.

III. Applicability

This Policy applies to all commercial, industrial, and Multi-Family residential service connections within the District water distribution system and to any persons outside the District who are, by contract or agreement with the District, users of the District water distribution system. This Policy does not apply to Single-Family residential service connections unless the District becomes aware of a Cross-Connection at the Single-Family connection.

IV. Definitions

- A. **"Air Gap"** means a physical separation between the free-flowing discharge end of a potable water supply pipeline and an open or non-pressure receiving vessel installed in accordance with standard American Society of Mechanical Engineers ("ASME") A112.1.2.
- B. **"Backflow"** means the undesirable reversal of flow of water or mixtures of water and other liquids, gases, or other substances into the District water distribution system from any source or sources other than its intended source.
- C. **"Backflow Contamination Event"** means Backflow into a District water distribution system from an uncontrolled Cross-Connection such that the water quality no longer meets the Colorado Primary Drinking Water Regulations or presents an immediate health and/or safety risk to the public.
- D. **"Backflow Prevention Assembly"** means any mechanical assembly installed at a water service line or at a plumbing fixture to prevent a Backflow Contamination Event, provided that the mechanical assembly is appropriate for the identified contaminant at the Cross-Connection and is an in-line field-testable assembly.
- E. **"Backflow Prevention Method"** means any method and/or non-testable device installed at a water service line or at a plumbing fixture to prevent a Backflow Contamination Event, provided that the method or non-testable device is appropriate for the identified contaminant at the Cross-Connection.
- F. **"Certified Cross-Connection Control Technician"** means a person who possesses a valid Backflow Prevention Assembly Tester certification from one of the following approved organizations: American Society of Sanitary Engineering ("ASSE") or the American Backflow Prevention Association ("ABPA"). If a certification has expired, the certification is invalid.
- G. **"Containment"** means the installation of a Backflow Prevention Assembly or a Backflow Prevention Method at any connection to the District water distribution system that supplies an auxiliary water system, location, facility, or area such that Backflow from a Cross-Connection into the District water distribution system is prevented.
- H. **"Containment by Isolation"** means the installation of Backflow Prevention Assemblies or Backflow Prevention Methods at all Cross-Connections identified

within a customer's water system such that Backflow from a Cross-Connection into the District water distribution system is prevented.

- I. **"Controlled"** means having a properly installed, maintained, and tested or inspected Backflow Prevention Assembly or Backflow Prevention Method that prevents Backflow through a Cross-Connection.
- J. **"Cross-Connection"** means any connection that could allow any water, fluid, or gas such that the water quality could present an unacceptable health and/or safety risk to the public, to flow from any pipe, plumbing fixture, or a customer's water system into the District water distribution system, or any other part of the District water distribution system through Backflow.
- K. **"District"** means the Triview Metropolitan District.
- L. **"Multi-Family"** means a single residential connection to the District water distribution system from which two or more separate dwelling units are supplied water.
- M. **"Policy"** means the Triview Metropolitan District Water Backflow Policy.
- N. **"Single-Family"** means:
 - 1. A single dwelling which is occupied by a single family and is supplied by a separate service line; or
 - 2. A single dwelling comprised of multiple living units where each living unit is supplied by a separate service line.
- O. **"Uncontrolled"** means not having a properly installed and maintained and tested or inspected Backflow Prevention Assembly or Backflow Prevention Method, or the Backflow Prevention Assembly or Backflow Prevention Method does not prevent Backflow through a Cross-Connection.
- P. **"Water Supply System"** means a water distribution system, piping, connection fittings, valves, and appurtenances within a building, structure, or premises. Water Supply Systems are also referred to commonly as premise plumbing systems.

V. Requirements

- A. Commercial, industrial, and Multi-Family service connections shall be subject to a survey for Cross-Connections. If a Cross-Connection has been identified, an appropriate Backflow Prevention Assembly and/or Backflow Prevention Method shall be installed at the customer's water service connection within 120 days of its discovery. The assembly shall be installed downstream of the water meter or as close to that location as deemed practical by the District. If the Backflow Prevention Assembly or Backflow Prevention Method cannot be installed within 120 days, the District must take action to control or remove the Cross-Connection, suspend

service to the Cross-Connection, or receive an alternative compliance schedule from the Colorado Department of Public Health and Environment.

- B. In no case shall it be permissible to have connections or tees between the meter and the Containment Backflow Prevention Assembly.
 - 1. In instances where a reduced pressure principle Backflow preventer cannot be installed, the owner must install approved Backflow prevention devices or methods at all Cross-Connections within the owner's plumbing system.
- C. Backflow Prevention Assemblies and Backflow Prevention Methods shall be installed in a location which provides access for maintenance, testing, and repair.
- D. Reduced pressure principle Backflow preventers shall not be installed in a manner subject to flooding.
- E. Provisions shall be made to provide adequate drainage from the discharge of water from reduced pressure principle Backflow Prevention Assemblies. Such discharge shall be conveyed in a manner which does not impact waters of the state.
- F. All Backflow Prevention Assemblies and Backflow Prevention Methods shall be protected to prevent freezing. Those Backflow Prevention Assemblies and Backflow Prevention Methods used for seasonal services may be removed in lieu of being protected from freezing. The Backflow Prevention Assemblies and Backflow Prevention Methods must be reinstalled and then tested by a Certified Cross-Connection Control Technician upon reinstallation.
- G. Where a Backflow Prevention Assembly or Backflow Prevention Method is installed on a Water Supply System using storage water heating equipment such that thermal expansion causes an increase in pressure, a device for controlling pressure shall be installed.
- H. All Backflow Prevention Assemblies shall be tested at the time of installation and on an annual schedule thereafter. Such tests must be conducted by a Certified Cross-Connection Control Technician.
- I. The District water distribution system shall require inspection, testing, maintenance, and as-needed repair and replacement of all Backflow Prevention Assemblies and Backflow Prevention Methods, and of all required installations within the owner's plumbing system in the cases wherein Containment Backflow Prevention Assemblies and/or Backflow Prevention Methods cannot be installed.
- J. All costs for design, installation, maintenance, testing, and as-needed repair and replacement are to be borne by the customer.
- K. No grandfather clauses exist except for fire sprinkler systems where the installation of a Backflow Prevention Assembly or Backflow Prevention Method will compromise the integrity of the fire sprinkler system.

- L. For new buildings, all building plans must be submitted to the District and approved prior to the issuance of water service. Building plans must show:
1. Water service type, size, and location;
 2. Meter size and location;
 3. Backflow Prevention Assembly size, type, and location; and
 4. Fire sprinkler system(s) service line, size, and type of Backflow Prevention Assembly.
 - a. All fire sprinkling lines shall have a minimum protection of an approved double check valve assembly for Containment of the system.
 - b. All glycol (ethylene or propylene), or antifreeze systems shall have an approved reduced pressure principle Backflow preventer for Containment.
 - c. Dry fire systems shall have an approved double check valve assembly installed upstream of the air pressure valve.
 - d. In cases where the installation of a Backflow Prevention Assembly or Backflow Prevention Method will compromise the integrity of the fire sprinkler system, the District can choose to not require the Backflow protection. The District will measure chlorine residual at a location representative of the service connection once per month and perform periodic bacteriological testing at the site. If the District suspects water quality issues, the District will evaluate the practicability of requiring that the fire sprinkler system be flushed periodically.

VI. Inspection, Testing, and Repair

- A. Backflow Prevention Assemblies or Backflow Prevention Methods shall be tested by a Certified Cross-Connection Control Technician upon installation, and tested at least annually thereafter. The tests shall be made at the expense of the customer.
1. Any Backflow Prevention Assemblies or Backflow Prevention Methods that are non-testable shall be inspected at least once annually by a Certified Cross-Connection Control Technician. The inspections shall be made at the expense of the customer.
- B. As necessary, Backflow Prevention Assemblies or Backflow Prevention Methods shall be repaired and retested, or replaced and tested, at the expense of the customer whenever the Backflow Prevention Assemblies or Backflow Prevention Methods are found to be defective.

- C. Testing gauges shall be tested and calibrated for accuracy at least once annually.

VII. Reporting and Recordkeeping

- A. Copies of records of test reports, repairs, retests, and replacements shall be kept by the customer for a minimum of three (3) years.
- B. Copies of records of test reports, repairs, and retests shall be submitted to the District by mail, facsimile, or e-mail by the testing company or testing technician.
- C. Information on test reports shall include, but is not limited to:
 - 1. Backflow Prevention Assembly or Backflow Prevention Method type;
 - 2. Backflow Prevention Assembly or Backflow Prevention Method location;
 - 3. Backflow Prevention Assembly make, model, and serial number;
 - 4. Backflow Prevention Assembly size;
 - 5. Test date;
 - 6. Test results, including all results that would justify a pass or fail outcome;
 - 7. Certified Cross-Connection Control Technician certification agency;
 - 8. Certified Cross-Connection Control Technician's certification number;
 - 9. Certified Cross-Connection Control Technician's certification expiration date;
 - 10. Test kit manufacturer, model, and serial number; and
 - 11. Test kit calibration date.

VIII. Right of Entry

- A. A properly credentialed representative of the District shall have the right of entry to survey any and all buildings and premises for the presence of Cross-Connections for possible Contamination risk and for determining compliance with this section. This right of entry shall be a condition of water service in order to protect the health, safety, and welfare of customers throughout the District water distribution system.

IX. Compliance

- A. Customers shall cooperate with the installation, inspection, testing, maintenance, and as-needed repair and replacement of Backflow Prevention Assemblies and with the survey process. For any identified uncontrolled Cross-Connections, the District shall complete one of the following actions within 120 days of its discovery:

1. Control the Cross-Connection;
 2. Remove the Cross-Connection; or
 3. Suspend service to the Cross-Connection.
- B. The District shall give notice in writing to any owner whose plumbing system has been found to present a risk to the District water distribution system through an uncontrolled Cross-Connection. The notice and order shall state that the owner must install a Backflow Prevention Assembly or Backflow Prevention Method at each service connection to the owner's premises to contain the water service. The notice and order will give a date by which the owner must comply.
1. In instances where a Backflow Prevention Assembly or Backflow Prevention Method cannot be installed, the owner must install approved Backflow Prevention Assemblies or Backflow Prevention Methods at all Cross-Connections within the owner's Water Supply System. The notice and order will give a date by which the owner must comply.

X. Violations and Penalties

- A. Any violation of the provisions of this Policy shall be punishable as provided in all applicable statutes, laws, and regulations.

XI. Conflict with Other Codes

- A. If a dispute or conflict arises between the Colorado Plumbing Code as adopted herein, and any plumbing, mechanical, building, electrical, fire, or other code adopted by the State, then the most stringent provisions of each respective code shall prevail.

EXHIBIT B

Fees

- First Violation: \$250.00
- Second Violation: \$500.00
- Third Violation: \$1,000.00