



231 N. 7th Street / P.O. Box 70 / Silt, CO 81652
Phone: 970-876-2353 / Fax: 970-876-2937

Dear Utility Customer.

This letter is to inform you that the State of Colorado requires all commercial buildings and connections to install and annually test backflow preventers. All non-irrigation backflow preventers need to be tested by a Certified Technician on or before May 1st, and all irrigation backflow preventers need to be tested by May 1st as well.

Please note that all backflow preventers need to be tested within 90 days of their active date, then annually thereafter.

Some customers have indicated that they no longer use their irrigation system, so in order to maintain compliance with State Regulations, these backflow preventers and connections must be physically disconnected.

In order to avoid a water shut off for non-compliance, please complete this testing and email the results to one of our Water/Wastewater Staff listed below.

The Town appreciates your cooperation and assistance, in keeping your public water system in compliance with these state requirements and compliance deadlines.

More information on this program, including a list of certified technicians that can provide this service, is available at www.townofsilt.org.

Please contact us with any questions, via email or by calling one of the numbers below:

Thank you,

Victor Tellez Water/Wastewater..... 989-0061..... vtellez@townofsilt.org

Sara Flores.....Water/Wastewater.....665-8804..... sflores@townofsilt.org

Casey Carbone-Marron.....Water/Wastewater.....456-2738..... cmarron@townofsilt.org

Daryl Back.....Water/Wastewater.....230-0805..... dback@townofsilt.org

Trey Fonner.....Public Works Director.....989-0024..... trey@townofsilt.org



**Backflow technicians
Reports, testing and records**

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System will evaluate the practicability of requiring that the fire sprinkler system be flushed periodically.

Inspection, Testing and Repair

Backflow prevention assemblies or methods shall be tested by a Certified Cross-Connection Control Technician upon installation and tested at least annually, thereafter. The test shall be made at the expense of the customer.

Any backflow prevention assemblies or methods that are not- testable, shall be inspected at least once annually by a certified cross-connection control technician. The inspection shall be made at the expense of the customer.

As necessary, backflow prevention assemblies or methods shall be repaired and retested or replaced and tested within 30 days at expense of the customer whenever the assemblies or methods are found to be defective.

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

Reporting and recordkeeping

Copies of records of test reports, repairs and retest, or replacements shall be kept by the customer for a minimum of (3) years.

Copies of records of test reports, repairs and retests shall be submitted to the public water system by mail, or e-mail by the testing company or testing technician.

Information on test reports shall include, but may not be limited to,

Assembly or Method type

Assembly or Method location

Assembly makes, model, size and serial number

Test date

Test results including all results that would justify a pass or fail outcome

Certified cross-connection control technician certification agency

Technician's certification number

Technician's certification expiration date

Test kit manufacturer, model and serial number

Test kit calibration date



**Utilities Department
Requirements for backflow device
Installation and testing**

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The Town of Silt Municipal Code, 13.06.030 Rules and Regulations requires installation and testing of all Cross Connections Control (Backflow) devices within the Town of Silt Water system of where contamination of the Town's water system may occur. When any backflow prevention assembly is required, the consumer shall install the assembly, at his or her expense. The Town of Silt is also required to keep accurate record of test, inspections and repairs of all containment assemblies for period of (10) years. The Town of Silt is required by the Colorado Primary Drinking Water Regulations to have all containment assemblies tested upon installation and at least once per year thereafter at consumer's expense. Backflow prevention assemblies, which are used for isolation, but are approved by the Town of Silt as an acceptable alternative to total containment, shall be subject to the requirements of the Town of Silt

Water consumers/ owners are responsible for preventing pollutant and contaminants in their water distribution system within a building or irrigation system from entering the potable water supply. The consumer/ owner's responsibility begins at the point of delivery (service connection/ curb stop, at the water main) and includes all the connections to ensure that all initial and annual testing are completed. (The consumer/ owner must keep accurate records of tests, inspections and repairs for at least (3) years. The consumer is required to provide the Town of Silt Utilities Department with copies of these records upon request).

At the request of consumers/ owner, the Cross Connection Control Technician has the responsibility of testing, inspecting and repairing backflow prevention assemblies at the consumer's expense. All test, inspections and repairs must be made in accordance with the procedures in the Colorado Cross Connection manual and/ or the regulations of Town of Silt.

The Technician is required to send copies of all "passed/ failed reports" to the consumer and the Utilities Department within (5) working days after installing, inspecting or repairing any backflow prevention assembly. Failure to comply with these regulations may lead to Water Disconnection.



Definitions

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“BACKFLOW PREVENTION ASSEMBLY” Means any mechanical assembly installed at a water service line or at 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.

“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.

“CERTIFIED CROSS-CONNECTION CONTROL TECHNICIAN” Means a person who possesses a valid Backflow Prevention Assembly Tester certification from one of the followings approved organizations: American Society of Sanitary Engineering (ASSE) or American Backflow Prevention Association (ABPA). If a certification has expired, the certification is invalid.

“CONTAINMENT” Means the installation of a backflow prevention assembly or backflow prevention method at any connection to the public water system that supplies an auxiliary water system, location, facility or area such that backflow from a cross connection into the public water system is prevented.

“CONTAINMENT BY ISOLATION” Means the installation of backflow prevention assemblies or backflow prevention method at all cross connection identified within a customer’s water system such that backflow from a cross connection into the public water system is prevented.

“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.

“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 a public water system’s distribution system or any other part of the public water system through backflow.

“MULTI-FAMILY” Means a single residential connection to the public water system’s distribution system from which two or more separate dwelling units are supplied water.

“SINGLE FAMILY” Means:

A single dwelling which is occupied by a single family and is supplied by a separate service line; or

A single dwelling comprised of multiple living units where each living unit is supplied by a separated service line.



Owners and Technicians responsibilities

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Where a backflow prevention assembly or 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.

All backflow prevention assemblies shall be tested at the time of installation and on annual schedule thereafter. Such test must be conducted by a Certified Cross-Connection Control Technician.

The public Water System shall require inspection, testing, maintenance and as needed repairs and replacements of all backflow prevention assemblies and methods, and of all required installations within the owner's plumbing system in the cases where containment assemblies and or methods cannot be installed.

All cost for design, installation, maintenance, testing and as needed repairs and replacement are to be borne by the customer.

No grandfather clauses exist except for fire sprinkler system where the installation of a backflow prevention assembly or method will compromise the integrity of the fire protection system.

For new buildings, all building plans must be submitted to the public water system and approved prior to the issuance of water service.

Building plans must show:

- Water service type, size and location

- Meter size and location

- Backflow prevention assembly size, type and location

Fire sprinkler system (s) service line, size and type of backflow prevention assembly.

All fire sprinkling lines shall have a minimum protection of an approved double check valve assembly for containment of the system.

All glycol (ethylene or propylene), or antifreeze systems shall have an approved reduced pressure principle backflow preventer for containment.

Dry fire system shall have an approved double check valve assembly installed upstream of the air pressure valve.

In case where the installation of backflow prevention assembly or method will compromise the integrity of the fire sprinkler system the public water system can chose to not require the backflow protection. The public water system will measure chlorine residual at location representative of the service connection ones a month and perform periodic bacteriological testing at the site. If public eater system suspects water quality issues the public water system will evaluate the practicability of requiring that the fire sprinkler system be flushed periodically.

Inspection, Testing and Repair

Backflow prevention assemblies or methods shall be tested by a Certified Cross-Connection Control Technician upon installation and tested at least annually, thereafter. The test shall be made at the expense of the customer.

Any backflow prevention assemblies or methods that are not- testable, shall be inspected at least once annually by a certified cross-connection control technician. The inspection shall be made at the expense of the customer.

As necessary, backflow prevention assemblies or methods shall be repaired and retested or replaced and tested within 30 days at expense of the customer whenever the assemblies or methods are found to be defective.

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

Reporting and recordkeeping

Copies of records of test reports, repairs and retest, or replacements shall be kept by the customer for a minimum of (3) years.

Copies of records of test reports, repairs and retests shall be submitted to the public water system by mail, or e-mail by the testing company or testing technician.

Information on test reports shall include, but may not be limited to,

Assembly or Method type

Assembly or Method location

Assembly makes, model, size and serial number

Test date

Test results including all results that would justify a pass or fail outcome

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Purpose of Backflow/Cross Connection

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PURPOSE

The purpose of this program is to protect the public water system from contaminants or pollutants that could enter the distribution system by backflow from a customer's water supply system through the service connection.

The public water system shall have the authority to survey all service connections within the distribution system to determine if the connection is a cross-connection.

The public water system shall have the authority to control all service connections within the distribution system if the connection is a cross-connection.

The public water system 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 back flow prevention assembly.

The public water system shall maintain records of cross-connection surveys and the installation, testing and repair of backflow prevention assemblies installed for containment and containment by isolation purposes.

APPLICABILITY

The program applies to all commercial, industrial and multi-family residential service connections within the public water system and to any persons outside the City who are, by contract or agreement with the public water system, users or of the public water system. This program does not apply to single-family-residential service connections unless the public water system becomes aware of a cross connection.

DEFINITIONS

"ACTIVE DATE" means at the first day that a backflow prevention assembly or backflow prevention method is used to control a cross-connection in each calendar year.

"AIR-GAP" is 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 AMSE A112.1.2.

"BACKFLOW" means the undesirable reversal of flow of water or mixtures of water and other liquids, gases or other substances into the public water systems from any source or sources other than its intended source.

"BACKFLOW CONTAMINATION EVENT" means backflow into a public water 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.

"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.

“WATER SUPPLY SYSTEM” means a water distribution system, piping connection fitting, valves and appurtenances within a building, structure, or premises. Water supply systems are also referred to commonly as premise plumbing system.

REQUIREMENTS

Commercial, Industrial and multi-family service connections shall be subject to survey for cross connections. If a cross connection has been identified an appropriate backflow prevention assembly and or 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 public water system. If the assembly or method cannot be installed within 120 days the public water system must take action to control or remove the cross connection, suspended service to the cross connection or receive an alternative compliance schedule from the Colorado Department of Public Health and Environment. Survey for cross connections shall occur unless no plumbing changes have occurred AND all existing assemblies at a site are satisfactorily tested each year AND no change of ownership has occurred. Under no circumstance shall a site survey be conducted less frequently than every third year, regardless of plumbing changes and assembly test results.

In no case shall it be permissible to have connections or tees between the meter and the containment backflow prevention assembly.

In Instances where a reduced pressure principal 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.

Backflow prevention assemblies and methods shall be installed in a location which provides access for maintenance, testing and repair.

Reduced pressure principal backflow preventers shall not be installed in manner subject to flooding.

Provisions shall be made to provide adequate drainage from the discharge of water from reduced pressure principal backflow prevention assemblies. Such discharge shall be conveyed in a mater which does not impact waters of the State.

All assemblies and methods shall be protected to prevent freezing. Those assemblies and methods used for seasonal services may be removed in lieu of being protected from freezing. The assemblies and methods must be reinstalled and then tested by a certified cross-connection control technician upon reinstallation.



**Backflow/Cross connection
Right of entry to survey**

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A property credentialed representative of the public water system shall have the right of entry to survey any and all buildings and premises for the presence of cross-connections for possible contamination risk to 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 public water system's distribution system.

Compliance

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 water public system shall complete one of the following actions within 120 days of its discovery:

Control the cross connection

Remove the cross connection

Suspend service to the cross connection

The public water system shall give notice in writing to any owner whose plumbing system has been found to present a risk to the public water system's distribution system through an uncontrolled cross connection. The notice and order will give a date by which the owner must comply.

In instance where a backflow prevention assembly or method cannot be installed, the owner must install approved backflow prevention assemblies or 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.

Violations and Penalties.

Any violation of the provisions of this program, shall, upon conviction be punishable as provided in all applicable statutes, laws, and regulations.



Cross connection control program

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Commercial users

In accordance with the Colorado Department of Public Health and Environment Regulations all Town's commercial water users are required to have a Cross Connection Control (backflow) devices installed on service lines to their building. Fire lines also require a cross control connection device. These devices must meet the Town of Silt and the Colorado Cross Connection Control Manual rules and regulations. Devices must be approved, inspected and tested prior to water service. A certified cross connection control technician must test the approved device and have a test result sent to the Town of Silt Cross Connection Control Program supervisor within 5 working days. Cross connection control devices must be tested annually thereafter. Separate underground lawn or landscape irrigation lines also require cross connection control devices. Permits are required for these irrigation systems and may be obtained at the Town of Silt. Failure to comply with these regulations may lead to water service disconnection and or fines.

Residential users

In accordance with the Colorado Department of Public Health and Environment Regulations all Town's residential users with underground lawn irrigation systems that is connected to the potable water system are required to have a Cross Connection Control (Backflow) devices installed in their system. These devices must meet the Town of Silt and the Colorado Cross Connection Control Manual rules and regulations. Devices must be approved, inspected and tested prior to the system being activated. A certified cross connection control technician must test the approved device and have the results sent to the Town of Silt cross connection control program supervisor within 5 working days. Cross connection control devices must be tested annually thereafter. Failure to comply with these rules and regulations may lead to water disconnection and or fines. Permits are required for lawn sprinkler systems and may be obtained at the Town of Silt.



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Facility Information

Date of CC Survey _____ / _____ / _____

1. Facility Name (Business, Co. Corp.): _____

2. Facility Address: _____

3. Mailing Address: _____

4. Contact Person: _____ Phone # (_____) _____

5. Type of Facility: _____ Industrial _____ Commercial _____ Institutional
 _____ Municipal _____ Other

6. Describe the facility use (I. e. motel, school): _____

7. Size of Service connection: _____ Inch.

8. If there a supplemental protection at meter required (containment device)?

a. If "YES", What type of backflow device is in use? _____ Reduce Pressure Backflow Prevention (RPBP)
 _____ Double Check Valve Assembly (DCVA)

9. Does this Facility require non interrupted Water Service? _____ YES _____ NO

10. Does Boiler feed utilize chemical additives? _____ YES _____ NO

11. Does this facility have an air conditioning cooling tower? _____ YES _____ NO

12. Is a water saver in use on condensing lines or cooling tower? _____ YES _____ NO

13. Is process water in use in this facility? _____ YES _____ NO

14. Does this Facility have a fire protection _____ YES _____ NO

a. If "YES", is the fire protection system supplied by a dedicated water line? _____ YES _____ NO

_____ Single swing check valve (SSCV) _____ Reduce Pressure Backflow Preventer (RPBP)
 _____ Double Check Valve Assembly (DCVA) Other _____

15. Fixture Protection Required: _____ Yes _____ No

a. If "YES" Where: _____

Violation (s) Found

No violation (s) was/ were found at the time of this cross-connection survey was conducted.

Exact Location of Cross-connection	Degree of Hazard	Comments
	___ High ___ Low	
	___ High ___ Low	
	___ High ___ Low	
	___ High ___ low	

I certified that the above cross-connection survey finding are true. (Signature Required)

Cross-connection Survey Conducted by

_____ (_____) _____
 CC Surveyor Name (Print) Signature Phone #



Certified Backflow Technician

* The Town of Silt does not endorse nor guarantee the work performed by the below list *

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COMPANY NAME	CONTACT INFORMATION
Affordable Fire Protection 1419 14 Road Loma, CO 81524	brady@affordablefireinc.com 970-858-8863
Backflow Tech 610 Garrison Street Unit-W Lakewood, CO 80215	service@backflowtech.com 303-986-4401
Dennis Backflow 570 E Crete Cir Grand Junction, CO 81505	dennisbackflow@hotmail.com 970-263-8440
Excel Fire Protection 2264 G Road Grand Junction, CO 81505	service@excelfire.com 970-434-4803
Fire Sprinkler Service, Inc. 0241 Mel Ray Road Glenwood Springs, CO 81601	fss@sopris.net 970-928-9163
Jeff of All Trades PO Box 1523 Glenwood Springs, CO 81601	cojeffofalltrades@gmail.com 970-274-6602
Tri County Fire Protection PO Box 309 Rifle, CO 81650	info@tcfire.net 970-625-4533
Climate Control Company 1537 County Road 130 Glenwood Springs, CO 81601	reception@cccgws.com 970-456-1166
RDR Property Services, LLC PO Box 40969 Grand Junction, CO 81504	rdrbackflow@gmail.com 970-261-4989
Jesus Velasquez LLC 17778 Hwy 82 #B Carbondale, CO 81623	970-618-0476
Prolific Water Systems 542 Orchard Ave. Silt, CO 81652	office@prolificwatersystems.com 970-379-4670
Wiley Mechanical 506 Front St. Silt CO 81652 (Physical) P.O. box 4782 Aspen, CO 81612 (mailing)	wwiley@wilemechanical.com / jbascom@wileymechnical.com 970-319-1203 970-876-4066