

ORDINANCE NO. 2024-2

**AN ORDINANCE TO UPDATE AND REPLACE PAROWAN CITY MUNICIPAL CODE 7.10.161
WATER SUPPLY PROTECTION: CROSS CONNECTIONS WITH 7.10.161 CONTROL OF BACKFLOW
AND CROSS-CONNECTIONS**

CONTROL OF BACKFLOW AND CROSS-CONNECTIONS

WHEREAS, Parowan City is a corporation created and existing under the laws of the State of Utah and,

WHEREAS, Parowan City Council wishes to update and replace the specified code with code that is consistent with current laws, rules, and best practices for controlling backflow and cross connections with the City Culinary Water System.

NOW THEREFORE, Parowan City has authority, pursuant to Utah Code Ann. Section 10-8-84 to enact all (ordinances/policies) and pursuant to regulations with The Utah State Rules for Public Drinking Water Systems (including R309-105-12) and Plumbing Code and amendments as adopted by the State of Utah, that require cross connection control protection of all public drinking water systems which are necessary and proper to provide for the safety and preserve the health, and promote the prosperity, improve the morals, peace and good order, comfort, and convenience of the City and its inhabitants, and for the protection of property in Parowan City.

BE IT ORDAINED BY THE PAROWAN CITY COUNCIL AS FOLLOWS:

**ORDINANCE REPLACING 7.10.161 WATER SUPPLY PROTECTION: CROSS CONNECTIONS
with 7.10.161 CONTROL OF BACKFLOW AND CROSS-CONNECTIONS.**

CONTROL OF BACKFLOW AND CROSS-CONNECTIONS SECTION:

DEFINITIONS

PURPOSE

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REQUIREMENTS

RESPONSIBILITY OF PURVEYOR

RESPONSIBILITY OF CONSUMER

RESPONSIBILITY OF PLUMBING OFFICIAL/BUILDING INSPECTOR

RESPONSIBILITY OF CERTIFIED BACKFLOW TECHNICIAN, SURVEYOR, OR REPAIR PERSON
VIOLATIONS/PENALTIES

A. DEFINITIONS:

- a. Water Purveyor: The person designated to be in charge of the Culinary Water system of Parowan City, is invested with the authority and responsibility for the implementation of an effective cross connection control program and for the enforcement of the provisions of this ordinance.

- b. Approved Backflow Assembly: An assembly accepted by the Utah State Department of Environmental Quality, Division of Drinking Water, as meeting an applicable specification or as suitable for the proposed use.
- c. Auxiliary Water Supply: Any water supply on or available to the premises other than the purveyor's public water supply will be considered as an auxiliary water supply. These auxiliary waters may include water from another purveyor's public potable water supply or any natural source(s) such as a well, spring, river, stream, etc., or "used waters" or "industrial fluids." These waters may be contaminated or polluted, or they may be objectionable and constitute an unacceptable water source over which the water purveyor does not have authority for sanitary control.
- d. Backflow: The reversal of the normal flow of water caused by either backpressure or back siphonage.
- e. Back-Pressure: The flow of water or other liquids, mixtures, or substances from a region of high pressure to a region of lower pressure into the water distribution pipes of a potable water supply system from any source(s) other than the intended source.
- f. Back siphonage: The flow of water or other liquids, mixtures, or substances under vacuum conditions into the distribution pipes of a potable water supply system from any source(s) other than the intended source, caused by the reduction of pressure in the potable water system.
- g. Backflow Prevention Assembly: An assembly or means designed to prevent backflow as approved by USC, ASSE, and IAPMO. Specifications for backflow prevention assemblies are contained within the Plumbing Code, and amendments as adopted by the State of Utah.
- h. Contamination: Means a degradation of the quality of the potable water supply by sewage, industrial fluids or waste liquids, compounds or other materials that may create a health hazard.
- i. Dual Source Connection: A pipe that is installed so that either the non-potable (i.e. secondary) irrigation water or the potable water is connected to a pressurized irrigation system one at a time, but not both at the same time; or a pipe that is installed so that either the potable water or private well water is connected to a residence at one time, but not the same time.
- j. Pollutant: Means of degradation of the quality of the potable water supply by only aesthetics and does not present a health hazard.

- k. Cross Connection: Any actual or potential connection or arrangement of piping or fixtures which may allow non-potable water or industrial fluids or other material of questionable quality to come into contact with potable water inside a water distribution system. This would include temporary conditions, such as swing connections, removable sections, four-way plug valves, spools, dummy sections of pipe, swivel or change-over devices or sliding multiport tubes or other plumbing arrangements.
- l. Isolation Protection: Any cross connection within a private water system, downstream of the water purveyor's meter and service connection shall be protected in accordance with the most current Plumbing Code and Utah Amendments.
- m. Containment Protection: Each connection to the drinking water distribution system is defined as "containment protection" and shall be protected by a Dual Check Device, Reduced Pressure Principle Assembly, or Double Check Valve Assembly, as required by the water purveyor for the purpose of preventing polluted or contaminated water backflowing into the distribution system.

B. PURPOSE:

- a. To protect the public drinking water supply of Parowan City from the possibility of contamination or pollution by requiring compliance with The Utah State Rules for Public Drinking Water Systems (including R309-105-12) and Plumbing Code and amendments as adopted by the State of Utah, that require a cross connection control protection of all public drinking water systems in the State of Utah. Compliance with these minimum safety codes will be considered reasonable diligence for the prevention of contaminants or pollutants which could backflow into the public drinking water system; and,
- b. To promote the reasonable elimination or control of cross connections in the plumbing fixtures and industrial piping system(s) of the consumer, as required by the state and plumbing regulations to assure water system safety; and,
- c. To provide for the administration of a continuing program of backflow prevention which will systematically examine risk and effectively prevent the contamination or pollution of the drinking water system.

C. POLICY:

- a. The policy of this ordinance is to protect the water supply of Parowan City from contamination or pollution from any cross connections existing or potential; and to assure that approved backflow prevention assemblies are tested when put into service and at least on an annual basis thereafter. This ordinance complies with Section R309 of the Utah Public Drinking Water Rules (UPDWR) and the Plumbing Code and amendments as adopted by the State of Utah.
- b. The installation or maintenance of any unprotected cross connection which would endanger the water supply of Parowan City is prohibited.
- c. Any such cross connection now existing or hereafter installed is hereby declared unlawful and shall be immediately protected or eliminated.

- d. Dual source connections are permitted within Parowan City. Where permitted, dual source connections are required to be protected by a Reduced Pressure Principle Assembly. Any dual source connection found in connection to Parowan City water system found in violation of this ordinance shall be removed.
- e. Water storage tanks shall be protected by an air gap in accordance with International Plumbing Code 608.14.1 and 608.16.1 which states an air gap must measure two times the pipe diameter between the potable water pipe and the flood rim of the receptacle.
- f. All threaded hose connections coming off the culinary cold side shall be protected by a hose connection vacuum breaker or hose bibb vacuum breaker in accordance with International Plumbing Code 608.14.2.
- g. Where permitted, fire hydrants may be used temporarily for water service such as dust mitigation and agricultural purposes with the protection of a Reduced Pressure Principle Assembly provided and maintained by (the water system) installed at the hydrant. The water purveyor may at any time disconnect the customer from permitted fire hydrant without notice due to downstream cross connection risk, or upstream needs of the distribution system.
- h. The control or elimination of cross connections and the criteria for determining degree of hazard and prescribing appropriate levels of protection shall be in accordance with the Plumbing Code and amendments as adopted by the State of Utah. Water service to any premise shall be contingent upon the customer providing appropriate cross connection control if determined necessary. Determinations and enforcement shall be the responsibility of the Water Department in conjunction with the building inspector.
- i. Water service may be refused or terminated to any premises where an unprotected cross connection may allow contamination or pollutants to backflow into the public drinking water system or in the case of a backflow incident, or non-compliance with the installation and testing requirements of backflow preventers.
- j. Authorized employees of Parowan City with proper identification, shall have free access at reasonable hours of the day, to all areas of a premise or building to which drinking water is supplied for the purpose of conducting hazard assessment surveys.
- k. Water service may be refused or terminated, or maximum backflow protection may be required, to the premise where access to perform surveys is denied, where unprotected cross connections are located, or in the event that installed assemblies are not tested, installed, or maintained as required by State and local regulations.

1. Before any water service is terminated, a due process of notifying the customer and providing a reasonable time for compliance to be achieved will be observed according to the operating procedures of Parowan City. However, in the event of an actual backflow incident which endangers the public health, water service may be terminated immediately and not be restored until the cross connection is either eliminated or adequately protected.
- D. REQUIREMENTS: No water service connection to any premises shall be installed or maintained by the Water Purveyor unless the water supply is protected as required by State laws, regulations, codes, and this ordinance. Service of water to a consumer found to be in violation of this ordinance shall be discontinued by the water purveyor after due instances where the Public Water Purveyor deems the hazard to be great, they may require certified surveys/inspections and test at a more frequent interval.
- a. All backflow prevention assemblies shall be tested within ten (10) working days of initial installation.
 - b. No backflow prevention assemblies shall be installed so as to create a safety hazard. Example: Installed over an electrical panel, steam pipes, boilers, or above ceiling level.
- E. RESPONSIBILITY OF PURVEYOR:
- a. Parowan City shall be responsible for the protection of the drinking water distribution system from the foreseeable conditions leading to the possible contamination or pollution of the drinking water system due to the backflow of contaminants or pollutants into the drinking water supply.
 - b. Drinking water system surveys/inspections of the consumer's water distribution system(s) shall be conducted or caused to be conducted by individuals deemed qualified by and representing Parowan City. Survey records shall indicate compliance with the State of Utah Regulations. All such records will be maintained by Parowan City.
 - c. Parowan City shall schedule and notify in writing, all consumers of the need for the periodic system survey to ensure compliance with existing applicable minimum health and safety standards.
 - d. Selection of an approved backflow prevention for containment control required at the service entrance shall be determined from the results of the system survey.
- F. RESPONSIBILITY OF CONSUMER:
- a. To comply with this ordinance as a term and condition of water supply and consumers acceptance of service is admittance of his/her awareness of his/her responsibilities as a water system user.
 - b. It shall be the responsibility of the consumer to purchase, install, and arrange testing and maintenance of any backflow prevention device/assembly required to comply with this ordinance. Failure to comply with this ordinance shall constitute grounds for discontinuation of service.

G. RESPONSIBILITY OF (PLUMBING OFFICIAL/BUILDING INSPECTOR):

- a. The Building Inspector or Certified Backflow Technician is responsible to enforce the applicable sections of the plumbing code begins at the point of service or consumer side of the meter and continues throughout the length of the consumer's water system.
- b. The Building Inspector or Certified Backflow Technician will review all plans to ensure that unprotected cross connections are not an integral part of the consumers water system. If a cross connection cannot be eliminated, it must be protected by the installation of an air gap or an approved backflow prevention device/assembly, in accordance with the Uniform Plumbing Code.
- c. Maintenance and repair, including materials or replacement parts used for approved backflow prevention assemblies/devices within the consumer's jurisdiction.

H. RESPONSIBILITY OF CERTIFIED BACKFLOW TECHNICIAN, SURVEYOR, OR REPAIR PERSON:

- a. Whether employed by the consumer or a utility to survey, test, repair, or maintain backflow prevention assemblies the Certified Backflow Technician, Surveyor, or Repair Person will have the following responsibilities:
 - i. Ensuring that acceptable testing equipment and procedures are used for testing, repairing or overhauling backflow prevention assemblies.
 - ii. Make reports of such testing and/or repairs to the consumer and the water purveyor on form approved for such use by the water purveyor within time frames as described by the Division of Drinking Water. Backflow Technician, Surveyor, or Repair Person is responsible for submitting test and repair forms to the Water Purveyor within 30 days of test/repairs performed.
 - iii. Include the list of materials or replacement parts being used on the reports.
 - iv. Ensuring that replacement parts are equal in quality to parts originally supplied by the manufacturer of the assembly being repaired.
 - v. Not changing the design, material, or operational characteristics of the assembly during testing, repair or maintenance.
 - vi. Performing all tests of the mechanical devices/assemblies and shall be responsible for the competence and accuracy of all test and reports.
 - vii. Ensuring that his/her license is current, the testing equipment being used is acceptable to the State of Utah, and is in proper operating condition.
 - viii. Being equipped with, and competent to use, all necessary tools, gauges, and other equipment necessary to properly test, and maintain backflow prevention assemblies.
 - ix. Tagging each backflow prevention assembly, showing the serial number, date tested and by whom. The certified technician's license number must also be on the tag.

I. RESPONSIBILITY: REPAIR OF BACKFLOW ASSEMBLIES.

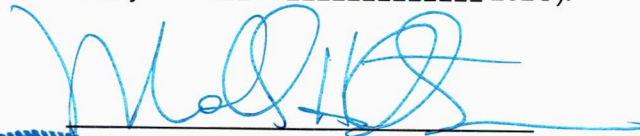
In the case of a consumer requiring an assembly to be tested, any currently Certified Backflow Technician is authorized to make the test and report the results to the consumer and the water purveyor. If any commercially tested assembly is in need of repair the Construction Trade License Act requires a licensed plumber to make actual repairs on any assembly within a building.

J. VIOLATIONS/PENALTIES:

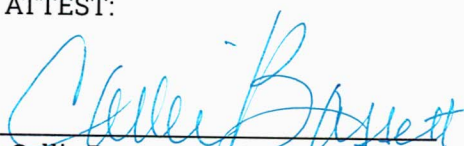
- a. If violations of this ordinance exist or if there has not been any corrective action taken by the consumer within ten (10) days of the written notification of the deficiencies noted within the survey or test results, then the water purveyor shall deny or immediately discontinue service to the premises by providing a physical break in the service line until the customer has corrected the condition(s) in conformance with all State and local regulations and statutes relating to plumbing, safe drinking water suppliers, and this ordinance.
- b. Any person who refuses to comply with the requirements of this ordinance shall be guilty of a Class C misdemeanor and may be sentenced accordingly. Each day for which corrective action has not been taken by a consumer shall be a separate offense.

This ordinance shall be effective immediately after passage and posting as required by law.

PASSED AND ADOPTED by the City council of Parowan City this 14th of March 2024).


Mollie Halterman, Mayor

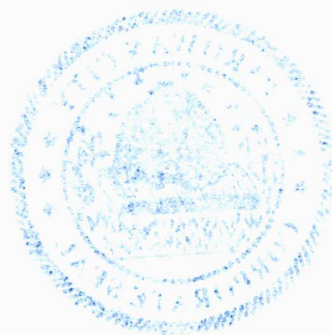
ATTEST:


Callie Bassett, CMC, City Recorder



COUNCIL VOTE:

	<u>AYE</u>	<u>NAY</u>	<u>ABSENT</u>
Councilmember David Burton	X		
Councilmember John Dean	X		
Councilmember Sharon Downey			X
Councilmember David Harris	X		
Councilmember Rochell Topham	X		



Parowan City
CROSS CONNECTION CONTROL POLICY

A policy related to "cross connection control and backflow-prevention control" at the Parowan City water system.

CROSS CONNECTION CONTROL AND BACKFLOW PREVENTION

(I) It shall be against the Parowan City policy, at any connection supplied with water from the Parowan City distribution system, to do any of the following:

- A. To install or use any physical connection or arrangement of piping or fixtures, which may allow any fluid or substances unsuitable for human consumption to enter the potable water distribution system, as required by Section 608.1 through 608.5 of the International Plumbing Code as adopted by the State of Utah.
- B. To install any connection, arrangement, or fixtures without a Backflow Prevention Device or approved Assembly unless arranged otherwise by the Parowan City CCC program Administrator over Water.
- C. To incorrectly install any Backflow Prevention Device or Assembly required by Section 608.6 and 608.1 of the International Plumbing Code and amendments as adopted by the State of Utah.

(2) Any person found in violation of this policy shall be subject to reprimand or other appropriate disciplinary action as determined by the CCC Program Administrator over Water.

(3) Administration of this policy shall be referenced by "Cross Connection Control Program of Utah, (Most recent approved version)". A copy of the manual shall be available at the office of Parowan City.

(4) Backflow prevention assemblies required by the policy will be required to be tested at least annually. The CCC program Administrator over Water shall prepare and maintain a Backflow Assembly Information sheet on all such devices and Test results shall be maintained for a period of no less than five (5) years.

This policy shall take effect on _____. A copy of this policy shall be placed in the CCC Program binder and will be reviewed for all new construction projects on a case-by-case basis.

Signature:_____

Title:_____

Date:_____