

Riddle, City of
#00706 2015

City of Riddle

Ordinance No. 440

**Cross Connection Control
Ordinance**

Prepared by:
Backflow Management Inc.
17752 NE San Rafael St.
Portland, OR 97230
www.bmi-backflow.com
800-841-7689

**CROSS CONNECTION CONTROL ORDINANCE
SECTIONS:**

- 1:01 PURPOSE**
- 1:02 DEFINITIONS**
- 1:03 APPLICATION AND RESPONSIBILITIES**
- 1:04 CROSS CONNECTIONS REGULATED**
- 1:05 BACKFLOW PREVENTION ASSEMBLY REQUIREMENTS**
- 1:06 IRRIGATION SYSTEMS**
- 1:07 MOBILE UNITS**
- 1:08 NEW CONSTRUCTION**
- 1:09 RETROFITTING**
- 1:10 PLUMBING CODE**
- 1:11 RIGHT-OF-WAY ENCROACHMENT**
- 1:12 THERMAL EXPANSION**
- 1:13 PRESSURE LOSS**
- 1:14 FIRE SYSTEMS**
- 1:15 TEMPORARY METERS AND HYDRANT VALVES**
- 1:16 INSTALLATION REQUIREMENTS**
- 1:17 ANNUAL TESTING AND REPAIRS**
- 1:18 MAINTENANCE OF ASSEMBLIES**
- 1:19 ACCESS TO PREMISES**
- 1:20 RESPONSIBILITIES OF BACKFLOW PREVENTION ASSEMBLY TESTERS**
- 1:21 COSTS OF COMPLIANCE**
- 1:22 RECOVERY OF COSTS**
- 1:23 TERMINATION OF SERVICE**
- 1:24 FALSIFYING INFORMATION**
- 1:25 CONSTITUTIONALITY AND SAVING CLAUSE**

Pursuant to Chapter 333, Division 61, of the Oregon Administrative Rules, it is the responsibility of the City of Riddle to protect the public water system from pollution and contamination by instituting and enforcing a cross connection control program.

1:01 PURPOSE

The purpose of this Ordinance is to protect the water supply and distribution system of the City of Riddle from contamination or pollution due to any existing or potential cross connections and to comply with the Oregon Administrative Rule Chapter 333-061-0070, 0071, 0072, 0073 and 0074 or as amended.

1:02 DEFINITIONS

For the purposes of this Ordinance, the following definitions shall apply unless the context clearly indicates or requires a different meaning. If a word or term used in this Ordinance is not contained in the following list, its definition, or other technical terms used, shall have the meanings or definitions listed in the Oregon Administrative Rules, Chapter 333, or the most recent edition of the *Manual of Cross Connection Control* published by the Foundation for Cross Connection Control and Hydraulic Research, University of Southern California (USC).

- (1) "APPROVED BACKFLOW PREVENTION ASSEMBLY" or "BACKFLOW ASSEMBLY" or "ASSEMBLY" means an assembly to counteract backpressure and/or prevent backsiphonage. This assembly must appear on the USC list of approved assemblies.
- (2) "AUXILIARY SUPPLY" means any water source or system other than the City of Riddle Water System.
- (3) "BACKFLOW" means the flow in the direction opposite to the normal flow or the introduction of any foreign liquids, gases, or substances into the water system of the City of Riddle.
- (4) "CERTIFIED BACKFLOW ASSEMBLY TESTER" shall mean a person who has successfully completed and maintains all requirements as established by the Oregon Health Authority to be a tester in the state of Oregon.
- (5) "CERTIFIED CROSS CONNECTION SPECIALIST" shall mean a person who has successfully completed and maintains all requirements as established by the Oregon Health Authority to be a Specialist in the state of Oregon.
- (6) "CITY" shall mean the City of Riddle.

- (7) "CITY WATER SYSTEM" shall refer to and mean the City of Riddle Water System, which shall include, wells, treatment mechanisms or processes, pumping stations, reservoirs, supply trunk or feeder lines, service lines, meters and all other appurtenances, device lines and items necessary to the operation of the system and to supply water service to individual property or premises and shall include the City of Riddle potable water with which the system is supplied.
- (8) "CONTAMINATION" means the entry into or presence in a public water supply system of any substance which may be deleterious to health and/or quality of the water.
- (9) "CROSS CONNECTION" means any physical arrangement where a potable water supply is connected, directly or indirectly, with any other non-drinkable water system or auxiliary system, sewer, drain conduit, swimming pool, storage reservoir, plumbing fixture, swamp coolers or any other device which contains, or may contain, contaminated water, sewage or other liquid of unknown or unsafe quality which may be capable of imparting contamination to the public water system as a result of backflow. Bypass arrangements, jumper connections, removable sections, swivel or changeover devices or other temporary or permanent devices through which or because of which backflow may occur, are considered to be cross connections.
- (10) "DEGREE OF HAZARD" means the NON-HEALTH HAZARD or HEALTH HAZARD classification that shall be assigned to all actual or potential cross connections.
- (11) "DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY", "DOUBLE CHECK ASSEMBLY", "DOUBLE CHECK" or "DCVA" means an assembly consisting of two (2) independently-operating check valves which are spring-loaded or weighted. The assembly comes complete with a resilient seated shut-off valve on each side of the checks, as well as test cocks to test the checks for tightness.
- (12) "HEALTH HAZARD" means an actual or potential threat of contamination of a physical, chemical or biological nature to the public potable water system or the consumer's potable water system that would be a danger to health.
- (13) "IN-PREMISES PROTECTION" means the appropriate backflow prevention within the consumer's water system at or near the point at which the actual or potential cross connection exists.
- (14) "MOBILE UNITS" shall mean units that are temporary in nature, connecting to the water system through a legally-permitted hydrant, hosebib, or other appurtenance of a permanent nature that is part of the City of Riddle water system or a permanent water service to a premises. Examples can include but are not limited to the following: water trucks, pesticide applicator vehicles, chemical mixing units or tanks, waste hauler's trucks or units, sewer cleaning equipment, carpet or steam cleaning equipment other than homeowner use, rock quarry or asphalt/concrete batch plants or any other mobile equipment or vessel that poses a threat of backflow in the City of Riddle Water System.

Uses that are excluded from this definition are recreational vehicles at assigned sites or parked in accordance with other City of Riddle policies pertaining to recreational vehicles and homeowner devices that are used by the property owner in accordance with other provisions of this, or other, City of Riddle policies pertaining to provision of water service to a premises.

- (15) "NON-HEALTH HAZARD" shall mean the classification assigned to an actual or potential cross connection that could allow a substance that may be objectionable, but not hazardous to one's health, to backflow into the potable water supply.
- (16) "OHA" shall mean Oregon Health Authority.
- (17) "OAR" shall mean Oregon Administrative Rule.
- (18) "PERSON(S)" shall mean a natural person (individual), corporation, company, city, partnership, firm, limited liability company, joint venture company or city, and other such entity.
- (19) "POLLUTION HAZARD" means an actual or potential threat to the physical properties of the water system or the potability of the public or the consumer's potable water system, but which would not constitute a health or system hazard, as defined. The maximum intensity of pollution to which the potable water system could be degraded under this definition would cause minor damage to the system or its appurtenances.
- (20) "PREMISES" means any piece of property to which water service is provided, including, but not limited to, all improvements, mobile structures and other structures located upon it.
- (21) "PREMISES ISOLATION" means the appropriate backflow prevention at the service connection between the public water system and the premises. This location will be at or near the property line and downstream from the service connection meter.
- (22) "REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY" or "REDUCED PRESSURE PRINCIPLE ASSEMBLY" or "RP ASSEMBLY" shall mean an assembly containing two independently-acting approved check valves together with a hydraulically-operated, mechanically-independent pressure differential relief valve located between the check valves, and at the same time, below the first check valve. The assembly shall include properly located test cocks and two tightly closing shut-off valves.
- (23) "RESIDENT" means a person or persons living within the area(s) served by the City of Riddle Water System.
- (24) "RETROFITTING" means to furnish a service connection with parts or equipment made available after the time of construction or assembly installation.

- (25) "SPECIALIST" means a certified Cross Connection Specialist, either employed with the City of Riddle or contracted by the City of Riddle.
- (26) "SUPERVISOR" shall mean the Public Works Supervisor or his/her designee.
- (27) "THERMAL EXPANSION" means the pressure created by the expansion of heated water.

1:03 APPLICATION AND RESPONSIBILITIES

This Ordinance applies throughout the City of Riddle Water System and to every premises and property served by the City of Riddle Water System. It applies to all premises, regardless of date of connection to the City of Riddle Water System. Every owner, occupant or person in control of any concerned premises is responsible for the terms and provisions contained in this Ordinance.

1:04 CROSS CONNECTIONS REGULATED

- (1) No cross connections shall be created, installed, used or maintained within the area(s) served by the City of Riddle Water System, except in accordance with this Ordinance.
- (2) The Specialist shall carry out or cause surveys to be carried out to determine if any actual or potential cross connection exists. If found necessary, an assembly commensurate with the degree of hazard will be required at the service connection.
- (3) The owner, occupant or person in control of any given premises is responsible for all cross connection control within the premises.
- (4) All premises found on Table 48 of the OAR shall install a Reduced Pressure Backflow Assembly at the service connection in accordance with this Ordinance.
- (5) It is the responsibility of the property owner/occupant to purchase, install, test, repair and maintain all backflow assemblies.
- (6) If there is a change in ownership of any and all property within the City's service area, it shall be the responsibility of the new owner to determine that all assemblies are in compliance with this Ordinance.
- (7) The use of any type of chemical spray attachment connected to the premises plumbing, including garden hose fertilizers and pesticide applicators, is not allowed within the City of Riddle Water System without proper protection from the potential of backflow occurring.

- (8) The use of any type of radiator flush kits attached to the premises plumbing is not allowed within the City of Riddle Water System without proper protection from backflow occurring.

1:05 BACKFLOW PREVENTION ASSEMBLY REQUIREMENTS

A Specialist employed by or under contract with the City of Riddle, shall determine the type of backflow assemblies to be installed within the City of Riddle Water System. All assemblies shall be installed at the service connection unless it is determined by the Specialist and approved by the Public Works Supervisor that in-premises protection would be adequate. An approved assembly shall be required in each of the following circumstances, but the Specialist is in no way limited to these:

- (1) In the case of any premises where there is any material dangerous to health which is handled in such a fashion as to permit entry into potable water system, the potable water system shall be protected by an approved air gap separation or an approved reduced pressure principle backflow prevention assembly.
- (2) When the nature and extent of any activity at a premises, or the materials used in connection with any activity at premises, or materials stored at a premises, could contaminate or pollute the potable water supply.
- (3) When a premises has one (1) or more cross connections, as that term is defined in Section 1:02.
- (4) When internal cross connections are present that cannot be corrected.
- (5) When intricate plumbing arrangements are present making it impractical to ascertain whether cross connections exist.
- (6) When the premises has a repeated history of cross connections being established or re-established.
- (7) When entry to the premises is restricted so that cross connection surveys cannot be made with sufficient frequency to assure cross connections do not exist.
- (8) When materials are being used such that, if backflow should occur, a health hazard could result.
- (9) When an appropriate cross connection survey report form has not been filed with the City of Riddle Public Works Supervisor.
- (10) Any and all used water return systems.

- (11) If an in-premises assembly has not been tested or repaired as required by this Ordinance, the installation of a reduced pressure principle assembly will be required at the service connection.
- (12) There is piping or equipment for conveying liquids other than potable City of Riddle water and that piping or other equipment is under pressure and installed and operated in a manner that could cause a cross connection.
- (13) When installation of an approved backflow prevention assembly is deemed by a Specialist to be necessary to accomplish the purpose of this Ordinance.
- (14) Wherever reclaimed water or separate irrigation water is used on premises.
- (15) When there is a premises with an auxiliary water supply which is interconnected to the City of Riddle Water Service or supply system.

This section will be carried out in accordance with this Ordinance and the City's Written Program Plan.

1:06 IRRIGATION SYSTEMS

All irrigation systems shall be protected according to the Uniform Plumbing Code. In the event any system is equipped with an injector system, a reduced pressure principle assembly will be required at the service connection.

1:07 MOBILE UNITS

Any mobile unit or apparatus, as defined in Section 1:02 of this Ordinance, which uses the water from any premises within the City of Riddle Water System, shall first obtain a permit from the City of Riddle and be inspected to assure an approved air gap or reduced pressure principle assembly is installed on the unit.

This section will be carried out in accordance with this Ordinance and the City's Written Program Plan.

1:08 NEW CONSTRUCTION

- (1) On all new non-residential construction, an approved backflow assembly shall be installed at the service connection. The type of the assembly will be commensurate with the degree of hazard as determined by a Specialist.

- (2) When a building is constructed on commercial premises, and the end use of the building is not determined or could change, a reduced pressure principle backflow prevention assembly shall be installed at the service connection to provide protection of the public water supply in the event of the most hazardous use of the building.

1:09 RETROFITTING

Retrofitting shall be required at all service connections where an actual or potential cross connection exists, and wherever else the City of Riddle deems retrofitting necessary to comply with the OAR, this Ordinance.

1:10 PLUMBING CODE

As a condition of water service, customers shall install, maintain, and operate their piping and plumbing systems in accordance with the current Uniform Plumbing Code, or as amended. If there is a conflict between this Ordinance and the Plumbing Code, the more stringent supercedes.

1:11 RIGHT-OF-WAY ENCROACHMENT

All backflow assemblies must be installed in accordance with the Right-of-Way Encroachment stipulated by the City's "Right of Way" Encroachment Document.

1:12 THERMAL EXPANSION

If a closed system has been created by the installation of a backflow prevention assembly, or other appurtenances, it is the responsibility of the property owner, the occupant, or person in control of the property to eliminate the possibility of damage from thermal expansion in accordance with the Plumbing Code.

1:13 PRESSURE LOSS

Any decrease in water pressure caused by the installation of a backflow assembly shall not be the responsibility of the City of Riddle.

1:14 FIRE SYSTEMS

An approved double check detector assembly shall be the minimum protection on all new fire sprinkler systems using piping material that is not approved for potable water use, and/or that does not provide for periodic flow-through. A reduced pressure principle detector assembly

must be installed, if any solution other than potable water can be introduced into the sprinkler system.

Retrofitting on fire sprinkler systems will be required in each of the following circumstances:

- (1) Where improper maintenance has occurred
- (2) On all health hazard systems
- (3) Wherever a Specialist deems necessary
- (4) Wherever required by the OAR

In the event an assembly is installed on a designated lateral, a detector assembly commensurate with the degree of hazard will be required.

1:15 TEMPORARY METERS AND HYDRANT VALVES

Backflow protection will be required on all temporary meters and hydrant valves before any use. The type of assembly will be commensurate with the degree of hazard and will be determined on a case-by-case basis by a City of Riddle Specialist.

This section will be carried out in accordance with this Ordinance and the City's Written Program Plan.

1:16 INSTALLATION REQUIREMENTS

All backflow prevention assembly installations shall follow the requirements as stipulated by the City of Riddle and the current OAR Chapter 333, Division 061.

If the premises isolation assembly is allowed to be installed at an alternate location, the City of Riddle must have access to the assembly. No connections can be made between the meter and the backflow assembly.

The type of backflow prevention assembly required shall be commensurate with the degree of hazard that exists and must, at all times, meet the standards of the Oregon Health Authority. All backflow prevention assemblies required under this section shall be of a type and model approved by the OHA.

This section will be carried out in accordance with this Ordinance and the City's Written Program Plan.

1:17 ANNUAL TESTING AND REPAIRS

All backflow prevention assemblies installed within the area(s) served by the City of Riddle shall be tested immediately upon installation, and at least annually thereafter by an OHA certified backflow assembly tester. All such assemblies found not functioning properly shall be promptly repaired or replaced at the expense of the owner, occupant or person in control of the premises. In the event an assembly is moved, repaired or replaced it must be retested immediately.

All repairs on backflow assemblies within the City of Riddle service area must be performed according to all State and County regulations.

This section will be carried out in accordance with this Ordinance and the City's Written Program Plan.

1:18 MAINTENANCE OF ASSEMBLIES

Backflow prevention assemblies shall be maintained, tested and repaired in accordance with the requirements set out in this Ordinance, the City's Written Program Plan, the OAR and all applicable State agencies' regulations. The assembly owner is responsible for protecting their assembly from freezing and vandalism.

In the event an assembly is not properly tested and repaired, the City of Riddle will have the assembly tested and repaired and apply all costs associated with this to the assembly owner's utility bill.

This section will be carried out in accordance with this Ordinance and the City's Written Program Plan.

1:19 ACCESS TO PREMISES

Authorized personnel of the City of Riddle, with proper identification and sufficient notice, shall have access during reasonable hours to all parts of a premises and within the structure to which water is supplied. However, if any owner, occupant or person in control refuses authorized personnel access to a premise, or to the interior of a structure, during these hours for inspection, a reduced pressure principle assembly must be installed at the service connection to that premise.

1:20 RESPONSIBILITIES OF BACKFLOW PREVENTION ASSEMBLY TESTERS

- (1) All backflow assembly testers operating within the City of Riddle Water System service area shall be certified in accordance with all applicable regulations of the OHA and must abide by the requirements of this Ordinance and the City's Written Program Plan.

- (2) Persons certified as backflow assembly testers shall agree to abide by all requirements of the United States Occupational Safety and Health Administration (“OSHA”) and Oregon Occupational Safety and Health Administration (“OR-OSHA”).
- (3) It is the responsibility of backflow assembly testers to submit records of all backflow assembly test reports to the City of Riddle within 10 days of completing the test.

This section will be carried out in accordance with this Ordinance and the City’s Written Program Plan.

1:21 COSTS OF COMPLIANCE

All costs associated with purchase, installation, surveys, testing, replacement, maintenance, parts and repairs of the backflow prevention assembly, and all costs associated with enforcement of this document, are the financial responsibility of the property owner, occupant, or other person in control of the premises.

1:22 RECOVERY OF COSTS

Any water customer violating any of the provisions of this Ordinance and who causes damage to or impairs the City of Riddle Water System, including, but not limited to, allowing contamination, pollution, any other solution or used water to enter the City of Riddle Water System, shall be liable to the City of Riddle for any expense, loss or damage caused by such violation. The City of Riddle shall collect from the violator the cost incurred by the City of Riddle for any cleaning, purifying, repair or replacement work or any other expenses caused by the violation. Refusal to pay the assessed costs shall constitute a violation of this Ordinance and shall result in the termination of service.

All cost associated with any disconnect or reconnect fees resulting from the enforcement of this Ordinance are the sole responsibility of the property owner.

1:23 TERMINATION OF SERVICE

Failure on the part of any owner, occupant or person in control of the premises to install a required assembly, have it tested a minimum of annually and repaired if necessary, and/or to discontinue the use of all cross connections and to physically separate cross connections in accordance with this Ordinance is sufficient cause for the discontinuance of public water service to the premises pursuant to Oregon Administrative Rule chapter 333-061-0070, or as amended. In the case of an extreme emergency or where an immediate threat to life or public health is found to exist, discontinuance or termination of public water service to the premises shall be immediate.

In lieu of termination of service, the City of Riddle may, at the property owner's expense, install a reduced pressure assembly at the meter. Testing, maintenance and repair of the assembly will be the responsibility of the property owner.

1:24 FALSIFYING INFORMATION

Any person who knowingly makes any false statement, representation, record, report or other document filed or required to be maintained pursuant to this Ordinance, or who falsifies, tampers with, or knowingly renders inaccurate any backflow assembly, device or method required under this Ordinance shall be subject to civil and/or criminal penalties provided by state law.

1:25 CONSTITUTIONALITY AND SAVING CLAUSE

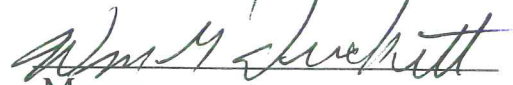
Should any provision, section, sentence, clause or phrase of this Ordinance, or the application of same to any person or set of circumstances, are for any reason held to be unconstitutional, void, invalid, or for any reason unenforceable, the validity of the remaining portions of this Ordinance, or its application to other persons or circumstances, shall not be affected; thereby, it being the intent of the City of Riddle Water System in adopting and approving this Ordinance that no portion hereof or provision or regulation contained herein shall become inoperative or fail by reason of any unconstitutionality or invalidity of any other portion, provision, or regulation.

Riddle City Ordinance No. 440

Authorizing Cross Connection Control Regulations

Passed this 9th day of March, 2015

Approve by the Mayor of the City of Riddle this 9th day of March 2015



Mayor

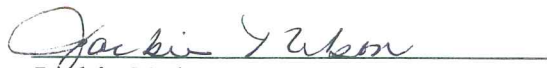
Approved by the Riddle City Council this 9th day of March 2015



Jane Z. Mitchell




Louise Lawson



Jackie Nelson



Debbie Carnes



Patricia Addis



Attest: Kathleen Wilson