

41-00507

ORDINANCE NO. (10-19-94)

THE MAPLETON WATER DISTRICT ORDAINS AS FOLLOWS:

Pursuant to Chapter 333, Division 61 of the Oregon Administrative Rules, it is the responsibility of the Mapleton Water District Board of Directors to protect its drinking water by instituting and enforcing a cross connection program.

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1:01 DEFINITIONS

- (1) "(_____)" means "(_____)"
- (2) "Cross Connection" means any physical arrangement where a public water system is connected, directly or indirectly, with any other water system or auxiliary system, sewer, drain conduit, swimming pool, storage reservoir, plumbing fixture, swamp coolers, or any other device which contain, or may contain contaminated water, sewage, or other liquid of unknown or unsafe quality which may be enable of imparting contamination to the public water system as a result of backflow. Bypass arrangements or jumper connections, removable sections, swivel or change over devices, or other temporary or permanent devices through which, or because of, backflow may occur are considered to be cross connections.
- (3) "Backflow" means the flow in the direction opposite of the normal flow or the introduction of any foreign liquids, gases, or substances into the water distribution system of Mapleton.
- (4) "Auxiliary supply" means any water source or system other than the Mapleton water system, that may be available in the building or on the premises.
- (5) "Approved assembly" means a device to counteract back pressures or prevent back siphonage. This device must appear on the list of approved devices issued by the Oregon State Health Division.
- (6) "Reduced pressure principle assembly" shall mean an approved 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 device shall include properly located test cocks and tightly closing shut off valves at the end of the assembly.

- (7) "Pressure Vacuum Breaker Assembly" means an approved assembly consisting of a spring loaded check valve loaded to the closed position, an independently operating air inlet valve loaded to the open position and installed as a unit with and between two resilient seated shutoff valves and with suitable connections for testing. It is designed to protect against backsiphonage only.
- (8) "Double Check Valve Assembly" means an approved assembly consisting of two independently operating check valves, loaded to the closed position by springs or weights, and installed as a unit with, and between, two resilient seated shutoff valves and having suitable connections for testing.
- (9) "Premises" means any piece of land to which water is provided including all structures, improvements, mobile home(s) and structure located on it.

1:02 PURPOSE

The purpose of these regulations is to protect the water supply of Mapleton from contamination or pollution due to any existing or potential cross connections.

1:03 CROSS CONNECTIONS REGULATED

No cross connections shall be created, installed, used or maintained within the territory served by the Mapleton Water District, except in accordance with these regulations.

1:04 BACKFLOW PREVENTION ASSEMBLY REQUIREMENT

Approved backflow prevention assemblies shall be installed at the expense of the owner either at the service connection or within the premises, as determined by certified water operator employed by the Mapleton Water District in each of the following circumstances:

- (1) If the nature and extent of any activity on the premises, or the materials used in connection with any activity on the premises, or materials stored on the premises, could contaminate or pollute the drinking water supply in any way.
- (2) On premises having any one or more cross connections as that term is defined in section 1:01 paragraph 2.
- (3) Internal cross connections that are not correctable, or intricate plumbing arrangements which make it impractical to ascertain whether or not cross connections exist.
- (4) A repeated history of cross connections being established or re-established.

- (5) Unduly restricted entry so that inspections for cross connections cannot be made with sufficient frequency or with sufficient notice to assure that cross connections do not exist.
- (6) Materials of a toxic or hazardous nature being used such that, if back siphonage should occur, a health hazard could result.
- (7) Any mobile apparatus which uses the Mapleton Water system or water from any premises within the Mapleton Water system.
- (8) All rental properties shall install a reduced pressure principle assembly at the service connection.
- (9) All Unified Plumbing codes must be maintained.
- (10) All new construction shall submit their plans to the water department for review and determination of the necessity of an assembly.
- (11) On any premise where installation of an approved backflow prevention device is deemed to be necessary to accomplish the purpose of these regulations in the judgement of a certified cross connection specialist employed by the Mapleton Water District.
- (12) On any premise where an appropriate cross connection report form has not been filed with the Mapleton Water District office.

1:05 INSTALLATION REQUIREMENTS

To ensure proper operation and accessibility of all backflow prevention assemblies, the following requirements shall apply to the installation of these devices.

- (1) No part of the backflow prevention assembly shall be submerged in water or installed in a location subject to flooding. If installed in a vault or basement, adequate drainage shall be provided.
- (2) Assemblies must be installed at the point of delivery of the water supply, before any branch in the line, on private property located just inside of the property line. Alternate locations must be approved in writing by the water commissioner prior to installations.
- (3) The assembly must be protected from freezing and other severe weather conditions.
- (4) All backflow prevention assemblies to be installed shall be of a type and model pre-approved by the State of Oregon, Health Division and the Mapleton Water District.
- (5) Only assemblies specifically approved by the Oregon Health Division for vertical installation may be installed vertically.

- (6) The assembly shall be readily accessible with adequate room for maintenance and testing. Devices 2" and smaller shall have at least 6" clearance on all sides of the device. All devices larger than 2" shall have a minimum clearance of 12" on the back side, 24" on the test cock side, 12" below the device and 36" above the device.
- (7) If written permission is granted to install the backflow assembly inside of the building, the assembly shall be readily accessible during regular working hours of 8:00 a.m. to 5:00 p.m., Monday through Friday.
- (8) If an assembly with written permission, is installed inside of the premises and is 4" or larger and is installed 4' above the floor, it must be equipped with a rigidly and permanently installed scaffolding acceptable to the water commissioner.
- (9) Reduced Pressure Principle Assemblies may be installed in a vault only if relief valve discharge can be drained to daylight through a "boresight" type drain. The drain shall be of adequate capacity to carry the full rated flow of the device and shall be screened on both ends.
- (10) An approved air gap shall be located at the relief orifice. This air gap shall be at least twice the inside diameter of the incoming supply line as measured vertically above the top rim of the drain and in no case less than 1".
- (11) Where a backflow device is deemed necessary, the model of assembly and installation plans shall be submitted to the Mapleton Water District for approval prior to installation.
- (12) Upon completion of installation, the Mapleton water commissioner shall be notified and all devices must be inspected and tested. All backflow devices must be registered with the Mapleton Water District. Registration shall consist of date of installation, make, model and serial number of the backflow device, and initial test report.
- (13) An air gap is not an approved means of cross connection protection within the Mapleton Water District system.

Any variances from these installation requirements shall be requested in writing by the owner and approved by the Mapleton Water District prior to device installation.

1:06 ACCESS TO PREMISES

Authorized employees of the Mapleton Water District with proper identification, shall have access during reasonable hours to all parts of a premise and within the building to which water is supplied. However, if any water user refuses access to a premise or to the interior of a structure at reasonable times and on reasonable notice for inspection by a cross connection specialist appointed by the Mapleton Water District, a reduced pressure principle assembly will be required to be installed at the service connection to that premise.

1:07 ANNUAL TESTING AND REPAIRS

All backflow assemblies installed within the territory served by the Mapleton Water District shall be tested immediately upon installation and at least annually thereafter by a state certified tester. All such devices found not functioning properly shall be promptly repaired or replaced, the Water District may deny or discontinue water to the premise. All testing and repairs are the financial responsibility of the water user.

1:08 COSTS OF COMPLIANCE

All costs associated with purchase, installation, inspections, testing, replacement, maintenance, parts, and repairs of the backflow device are the financial responsibility of the property owner.

1:09 TERMINATION OF SERVICE

Failure on the part of any customer to discontinue the use of all cross connections except in accordance with this ordinance is sufficient cause for the immediate discontinuance of public water service to the premises. (OAR chapter 333-061-070, section 1)

1:10 EFFECTIVE DATE

Accepted by Board this _____ day of _____ 1992.

Signed by the Board Chairman this _____ day of _____ 1992.

Carl West - Chairman

CROSS CONNECTION REPORT FORM

1. Are you renting or buying?

If renting please provide the name and address of the owner below.

2. How many homes does your meter serve?

3. Do you have any of the following?

Comments?

Swamp Cooler	Yes	No
Hot Tub	Yes	No
Swimming Pool	Yes	No
Jacuzzi	Yes	No
Underground Sprinkler System	Yes	No
Drip Irrigation System	Yes	No
Green House	Yes	No
Solar System	Yes	No
Utility Sink (with threaded faucet)	Yes	No
Fire Sprinkler System	Yes	No
Ghost Pipes	Yes	No
Waterbed	Yes	No

4. Do you use:

Antifreeze Flush Kits	Yes	No
Insecticide Sprayers (that attach to a garden hose)	Yes	No
Dark Room Equipment	Yes	No

5. Do you or anyone in this home use a portable dialysis machine?

6. Do you have a bathtub that fills from the bottom; or does not have an overflow drain and is not airgapped?

7. Do you have a water softener or any other type of treatment system connected to the drinking water supply?

8. Do you have an auxiliary water supply on your premise?

9. Do you receive irrigation water from a different source?
10. Do you have livestock (i.e., horses, cows, etc.)?
11. Does a creek, river, or spring run through your property?
12. Is there a 30 feet elevation from the water meter to the point of water use?
13. Do you have a backflow preventer on your property at this time?
14. Do you have a booster pump?
15. Do you have any situation that you are aware of that could create a cross connection?

Please notify _____ if any of the above conditions ever change on your property.

Signature of Water Client

Print Your Name

Mailing Address:

Physical Address (of property):

Please answer all of the above questions and return by: _____

This form will be kept on file.

RETURN TO: _____

