

# **CROSS-CONNECTION CONTROL AND BACKFLOW PREVENTION ORDINANCE**

## **AN ORDINANCE TO ESTABLISH A SYSTEM OF CROSS CONNECTION CONTROL AND BACKFLOW PREVENTION**

### **LAKELAND SANITARY DISTRICT NO.1**

**The Lakeland Sanitary District #1, Town of Minocqua, Oneida County, Wisconsin,  
does hereby ordain as follows:**

#### **1. General Policy**

##### **1.1 Purpose – The purpose of this ordinance is:**

1.1.1 To protect the health and welfare of users of the public potable water supply of Lakeland Sanitary District #1 from the possibility of contamination or pollution of the potable water system under the direct authority of the Lakeland Sanitary District #1.

1.1.2. To promote for the control and/or elimination of existing cross connections (actual or potential) between the customer's potable water system(s) and other environments which may contaminate or pollute the water supply.

1.1.3. To provide for the maintenance of a continuing Program of Cross Connection Control; to systematically and effectively prevent contamination of the potable water system under the direct authority of Lakeland Sanitary District #1.

##### **1.2 Definitions**

a. Backflow; the undesirable flow of water or mixtures of water and other liquids, solids, gases or other substances under positive or reduced pressure into the Lakeland Sanitary District #1 potable supply of water from any source.

b. Backflow Prevention; A means designed to prevent backflow caused by backpressure or backsiphonage; most commonly categorized as air gap, reduced pressure principle backflow assembly, double check valve assembly, pressure vacuum breaker assembly, backsiphonage backflow vacuum breaker (spill resistant pressure vacuum breaker) assembly, pipe applied atmospheric vacuum breaker, flush tank ballcock, laboratory faucet backflow preventer, backflow preventer for carbonated beverage machine, vacuum breaker wall hydrants, (freeze resistant automatic draining type), chemical dispensing machine, hose connection vacuum breaker, hose connection backflow preventer, backflow preventer with intermediate atmospheric vent and barometric loop.

c. Backpressure; An elevation of pressure in the downstream piping system (i.e. Pump, elevation of piped, or steam and/or air pressure) above the utility supply pressure, which would cause or tend a reversal of the normal direction of flow.

d. Backsiphonage; The flow of water or other liquids, mixtures or substances into the utility's potable water system from any source caused by the sudden reduction of pressure in the utility's potable water supply system.

e. Cross Connection; Any physical connection or arrangement between two otherwise separate systems, one of which contains potable water from the utility, and the other containing water from a private source, water of unknown or questionable safety, or steam, gases or chemicals, whereby there may be a flow from one system to the other, the direction of flow depending on the pressure differential for cross connection control and backflow prevention for Lakeland Sanitary District #1.

**2. Cross Connection Prohibited:** No person shall establish or permit to be established or maintain or permit to be maintained any cross connection. No interconnection shall be established whereby potable water from a private, auxiliary or emergency water supply, other than the public supply of the utility, unless such private, auxiliary or emergency water supply and the method of connection and use of such supply have been approved by the utility and the Wisconsin Department of Natural Resources.

**3. Responsibility:** Lakeland Sanitary District #1 shall be responsible for the protection of the public potable water distribution system from contamination or pollution due to backflow of contaminants or pollutants.

**4. Owner Responsibility:** The property owner shall be responsible for the protection of the customer's potable water system. The responsibilities include the elimination of or protection from all cross-connections on their premises. The owner shall, at their own expense, install, maintain and test any and all backflow preventers on their premises in compliance with the Department of Commerce 82.21 requirements and the utility's "*Cross Connection Control Manual*". The property owner shall have corrected any malfunction revealed by periodic testing of any backflow preventer on their premises. The property owner shall inform the utility of any proposed or modified cross connections and also any existing cross connections that are not protected by approved backflow protection means. The property owner shall not install a by-pass around any backflow preventer unless there is a backflow preventer of the same type in the by-pass. Property owners who cannot shut down the operation for testing of the backflow prevention assembly must supply additional assemblies as necessary to allow testing and maintenance to take place. In the event the property owner installs potable water fixtures, equipment or appurtenances upstream of a backflow preventer, such must have its own approved backflow prevention means. The Water Works Association publication AWWA M-14 titled "Recommended Backflow Prevention and Cross Connection Control", United States Environmental Protection Agency publication titled "Cross Connection Control Manual", Wisconsin Department of Commerce Plumbing Code, Comm 82-84 and the utility's "Cross Connection Control Manual", unless the utility requires or authorizes other means of protecting the potable water supply system. These requirements or authorizations will be at the discretion of the utility.

**5. Inspections:** It shall be the duty of the utility to cause surveys to be made of all properties serviced by the utility where cross connections with the public water system is deemed possible. Residential properties serviced by the utility shall be surveyed on a 10-year interval. All non-

residential properties serviced by the utility shall be surveyed on an interval not exceeding 2 years. The frequency of required surveys and resurveys, based upon the potential health hazards, may be shortened by the utility. Variations to the schedule will be in accordance with NR 810.15.

**6. Right of Entry:** Upon presentation of credentials, representatives of the utility shall have the right to request entry at any reasonable time to examine property served by a connection to the public potable water system of the utility for cross connections. If entry is refused water service may be disconnected in accordance with PSC 185.37. Upon request, the owner, lessee or occupant of any property served shall furnish to the inspection agency any pertinent information regarding the piping system on such property.

**7. Authority to Discontinue Service:** The utility is hereby authorized and directed to discontinue water service to any property wherein any connection in violation of this section exists or precautionary measures deemed necessary to eliminate any damage or contamination of the potable water system. Disconnection shall be in accordance with Chapter 68, Wisconsin Statutes. Water service shall be discontinued if the means of backflow prevention required by the utility is not installed, tested, maintained and/or repaired in compliance with this ordinance, the Department of Commerce Plumbing Code Comm 82-84 and the utility's "Cross Connection Control Manual", or if it is found that the means of backflow prevention required by this ordinance has been removed or bypassed.

**8. Reconnection of Service:** Water service to any property disconnected under provisions of this ordinance shall not be restored until the cross connection(s) has been eliminated or a backflow prevention means approved by the utility has been installed in compliance with the provisions of this section.

**9. Emergency Discontinuance of Service:** If it is determined by the utility that a cross connection or an emergency endangers public health safety or welfare and requires immediate action, service may be immediately discontinued pursuant to PSC 185.37. The owner, lessee or occupant shall have an opportunity for hearing under Chapter 68, Wisconsin Statutes within 10 days of such emergency discontinuance. Such hearing shall be before the Board of Commissioners of Lakeland Sanitary District #1 and shall conform to all existing due process requirements.

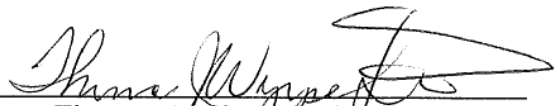
**10. Additional Protection:** In the case of premises having (a) cross connections that cannot be permanently corrected or controlled, or (b) intricate plumbing and piping arrangements or making it impractical or impossible to ascertain whether or not dangerous cross connections exist, the public water supply system shall be protected in the service line. In the case of any premises where there is any material dangerous to health that is handled in such a manner that, in the opinion of the utility, could create an actual or potential hazard to the public water supply system, an approved air gap separation or an approved reduced pressure principle backflow assembly shall protect the public water supply system. Examples of premises where these conditions will exist include premises with auxiliary water supplies either interconnected or not interconnected with the public water supply system, premises where inspection is restricted, hospitals, mortuaries, clinics, laboratories, piers, docks, and other water front facilities, sewage

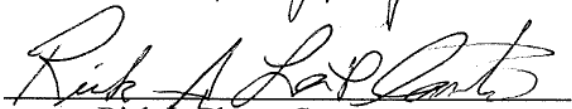
treatment plants, sewage lift stations, food and beverage, processing plants, chemical plants using a water process, metal processing plants or nuclear reactors, car washing facilities and premises with reclaimed water systems. In the case of any presence of toxic substances, the utility may require an approved air gap or reduced pressure principle backflow assembly at the service connection to protect the public water supply system. This requirement will be at the discretion of the utility.

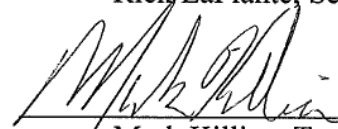
**11. Public Water Supplies:** This section does not supersede the State of Wisconsin Department of Natural Resources Administrative Code NR 810.15, but is supplementary to it.

**12. Severability:** If any section, subsection, sentence, clause, or phrase of the ordinance is, for any reason, held to be invalid, such decision shall not affect the validity of the remaining portions of the ordinance and section, subsection, clause, and phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, and phrases be declared unconstitutional.

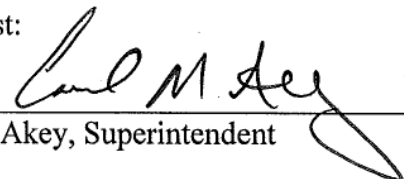
Adopted, with changes, at a regular Board of Commissioner's meeting of the Lakeland Sanitary District #1 of the Town of Minocqua, Oneida County, Wisconsin, this 13<sup>th</sup> day of June, 2017.

  
Thomas J. Wipperfurth, President

  
Rick LaPlante, Secretary

  
Mark Killian, Treasurer

Attest:

  
Carl Akey, Superintendent