

Proposed New City of Toronto Water Supply By-law

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Note: This Water Supply By-law document is a DRAFT.

§849—1. Definitions.

As used in this by-law, the following terms shall have the meanings indicated:

ACCOUNT -- The record of water consumption and all fees and charges related thereto at and for a property.

APPLICANT -- Any person who makes an application under this by-law.

APPLICABLE LAW -- Any applicable federal, provincial or municipal laws, statutes, by-laws, rules, regulations, policies, orders, directives and codes including the Ontario Building Code and Fire Code as may be amended from time to time.

AUTOMATED METER READING PROGRAM -- The programs or projects, as may be adopted by the City, for the supply and installation of water meters, a radio communications network capable of reading, transmitting and collecting water meter readings throughout the City and includes all related equipment, software and hardware. Automated Meter Reading Program includes the water meter replacement and automated meter reading system project currently undertaken by the City as at the enactment of this by-law.

AWWA STANDARDS -- the standards adopted by the American Waterworks Association, as they may be amended from time to time.

BACKFLOW -- The flowing back or reversal of the normal direction of the flow of water.

BACKFLOW PREVENTION DEVICE -- A device or system that prevents backflow or back-siphonage into a private water service pipe, private water system, or the waterworks and is designed to prevent a cross connection.

BACK-SIPHONAGE -- Backflow caused by a negative pressure in the supply system.

BUILDING -- Building as defined in the Building Code Act, 1992, S.O. 1992, c.23, as amended.

BUILDING CODE -- Building Code Act, 1992, S.O. 1992, c.23, as amended, and the regulations thereunder.

CBO -- The chief building official as defined in the Building Code.

CFO -- The chief financial officer and treasurer of the City or designate.

CITY -- The City of Toronto and where an authority or discretion is conferred upon a City official under the By-Law, means the appropriate official or representative of the City as designated or appointed under its governing by-laws, resolutions or policies from time to time.

CONSUMER -- The owner or occupier of property which is serviced by and connected to the waterworks.

CROSS CONNECTION -- Any temporary or permanent connection which may allow backflow or contaminants, pollutants, infectious agents, or other material or substances that could change the quality of the water in the waterworks, a private water service pipe or a private water system, to enter any of them and includes swivel or changeover devices, removable sections, jumper connections and by-pass arrangements through which backflow may occur.

CROSS CONNECTION CONTROL DEVICE -- A device or method that is designed to prevent a cross connection into the private water service pipe, private water system or the waterworks.

CSA -- The Canadian Standards Association.

CSA - B64 SERIES STANDARDS -- B64.10-01/B64.10.1-01, Manual for the Selection and Installation of Backflow Prevention Devices / Manual for the Maintenance and Field Testing of Backflow Prevention Devices as published by the CSA, as amended from time to time.

DEVELOPER -- The owner or party named in a development agreement or a subdivision agreement.

DEVELOPMENT -- The construction, erection or placing of one or more buildings or structures on land or the making of an addition or alteration to a building or structure which may have the effect of increasing or decreasing the consumption of water at the property.

DWELLING UNIT -- A unit that consists of a self contained room or set of rooms located in a building or structure, is used or intended for use only as a residential premises, contains kitchen and bathroom facilities that are intended for the use only of the unit, is used as a single housekeeping unit in which no occupier has exclusive possession of any part of the unit, and has a means of egress to the outside of the building or structure in which it is located, which means of egress may be through another residential unit or common area.

GENERAL MANAGER – The General Manager of Toronto Water or such person’s designate or any person duly authorized to act in such person’s place.

HIGH VOLUME ACCOUNT -- Any water account, where the annual consumption in any calendar year is greater than 6,000 cubic metres, or where the annual consumption is estimated by the City to be greater than 6,000 cubic metres for that subsequent calendar year. The basis for this estimate shall be the historical average for the account.

IRRIGATION SYSTEM – Fixed equipment, which includes sprinkler heads, piping and other components that are used primarily to apply water to vegetation.

OCCUPIER -- A person residing on or in a property; a person entitled to the possession of the property if there is no other person residing on or in the property; and a tenant or leaseholder; and, where such person is a corporation, shall include the officers, directors and shareholders of such corporation. An occupier includes an occupant.

ONTARIO BUILDING CODE - means regulations made under section 34 of the Building Code Act, S.O. 1992, c.23

OWNER -- A person who has any right, title, estate, or interest in a property, other than that of only an occupant and, where such person is a corporation, shall include the officers, directors and

shareholders of such corporation, and shall include any person with authority or power over or control of such property on the behalf of an owner. An owner includes a developer.

PERSON - A natural person, an association, a partnership or a corporation, and the heirs, executors, administrators or other legal representatives of a person to whom the context can apply according to law.

PREMISE ISOLATION – The isolation of the water located within a building, structure or property from the waterworks.

PRIVATE FIRE SERVICE MAIN -- The pipes, fittings and appurtenances from the water service connection conveying water for fire protection or suppression to all points in a fire protection or suppression system.

PRIVATE METER -- A water meter which is not owned, serviced or maintained by the City.

PRIVATE WATER SERVICE PIPE -- The pipe, fittings and appurtenances which convey water from the water service connection to a water meter, or to the point where the pipe and fittings connected to the water service connection enters a building or structure if there is no water meter.

PRIVATE WATER SYSTEM -- An assembly of pipes, fittings, valves and appurtenances that convey water from the private water service pipe to water supply outlets, fixtures, plumbing appliances, devices, and appurtenances and all other points downstream of the water meter or downstream of the point where the private water service pipe enters a building or structure if there is no water meter.

PROPERTY -- Includes a house, building, structure, lot or part of a lot, or any part of a house, building, structure, lot or part of a lot which has a unique municipal address, adjacent to the waterworks, save and except property owned and occupied by the City but not including a property owned and occupied by a corporation of which the City is a shareholder.

REMOTE READOUT UNIT -- Any device which is used to record or transmit, or both, the water consumption reading of a water meter and may be installed at a separate location from the water meter but does not include the water meter register.

RENOVATED BUILDING -- Any building or structure where the plumbing or piping around or adjacent to a water meter is changed or altered.

ROAD ALLOWANCE -- A common and public highway including a portion of a highway as defined in the *Municipal Act, 2001*.

ROOM -- An area, or part of an area, in which a person may normally stand upright, of four and sixty-four hundredths (4.64) square metres or more in a building, fully enclosed with a means of access and egress, which may include, without limitation, any bedroom, living room, dining room, kitchen, recreation room, summer kitchen, kitchenette, breakfast room, conservatory, sun room, enclosed veranda and enclosed back porch but does not include a bathroom.

SHUT-OFF VALVE -- The valve on or at a water service connection owned and used by the City to shut off or turn on the water supply from the waterworks to a property.

STANDARDS AND SPECIFICATIONS -- The City of Toronto's Standard Construction Specifications and Drawings for Sewers and Watermains as prescribed by the General Manager, from time to time.

STREETLINE -- The boundary of a property which adjoins a road allowance.

SUBSTANTIALLY DEMOLISHED -- The demolition of more than 50% of the exterior walls of the first story above grade of a building or structure, whether or not they are subsequently replaced.

TEMPORARY WATER METER - a water meter which measures the quantity of water consumed at, in or upon a property during the construction of a structure, or during such other temporary purpose as may be approved by the General Manager, intended to be temporary and removed upon completion of the structure or other temporary purpose and is read, serviced, maintained or supplied by the City.

TEMPORARY WATER SERVICE CONNECTION - a water service connection to the waterworks for the purpose of the construction of a structure, or such other temporary purpose as may be approved by the General Manager, intended to be temporary and removed upon completion of the structure or other temporary purpose and may also include a temporary connection to a fire hydrant.

UNIVERSAL METERING PROGRAM -- Any program or project adopted by the City from time to time to supply and install new water meters, remote water meter reading devices and meter seals on all unmetered properties within the City.

WATER -- Potable water supplied by the City.

WATER METER -- An apparatus at a property which measures and records the quantity of water passing through it and is read, serviced, maintained or supplied by the City.

WATER SERVICE CONNECTION -- That part of the waterworks, consisting of pipes, fittings and appurtenances which supplies water to a property, and which is located between the City watermain and the streetline or between the City watermain and the boundary line between a City easement or other City land containing the watermain and private land.

WATERWORKS -- Any works for the collection, production, treatment, storage, supply, transmission and distribution of water by the City, or any part of any such works including the water service connection, but does not include plumbing to which the *Building Code Act, 1997*, or any amendments thereto apply.

Any reference to the General Manager or any other officer of the City shall be construed to mean the person holding that office from time to time, and the designate or deputy of that person, and shall be deemed to include a reference to any person holding a successor office or the designate or deputy of that person.

A reference to any Act, statute, by-law, order, rule or regulation or other similar instrument or to a provision thereof shall be deemed and construed to include a reference to any Act, statute, by-law, order, rule or regulation or other similar instrument or provision enacted in substitution thereof or amendment thereof.

§849—2. Administration.

- A. The administration of the waterworks and fixed water meter reading equipment shall be under the jurisdiction of the General Manager.
- B. The administration of water meter reading, water rates, accounting, billing and collection shall be under the jurisdiction of the CFO.
- C. The administration of the installation of new, renovated or altered private water service pipes, private fire service mains, private water systems and appurtenances, cross connection control devices and backflow prevention devices on private property shall be the responsibility of the CBO and the General Manager.
- D. The administration of inspections of existing private water service pipes, private fire service mains, private water systems and appurtenances, cross connection control devices and backflow prevention devices on private property shall be the responsibility of the General Manager.
- E. The General Manager shall be authorized to prescribe any City form under this by-law and to amend or revise such forms from time to time.
- F. The General Manager shall be authorized to amend or revise City standards and specifications relating to this by-law as may be required from time to time.
- G. The City may authorize programs or projects which may exempt persons or properties from a provision or provisions of this by-law.

§849---3. Use and receipt of water.

- A. No person shall use, cause or permit water to be used otherwise than in connection with the property at which it is supplied nor shall water be sold or otherwise similarly disposed of without the prior written permission of the General Manager, other than authorized Toronto Fire Services personnel or other City personnel, acting in the course of their duties.
- B. No person shall obtain water without paying the applicable charges, fees or rates for such water, except with the prior written approval of the General Manager, other than authorized Toronto Fire Services personnel or other City personnel, acting in the course of their duties.

§849---4. Water service connections

- A. New or changed connections.
 - (1) (a) No person shall erect or cause to be erected any building or structure, except an ancillary building, on lands which are serviced by the waterworks unless the new building or structure is connected to the waterworks.

- (b) No owner or occupant shall permit to be erected any building or structure, except an ancillary building, on lands which are serviced by the waterworks unless the new building or structure is connected to the waterworks.
- (2) (a) No person shall connect to the waterworks or change or alter an existing connection to the waterworks without the approval of the General Manager and compliance with the requirements of §849-4.
- (b) No owner or occupant shall permit a connection to the waterworks or change or alter or permit the change or alteration of an existing connection to the waterworks without the approval of the General Manager and compliance with the requirements of §849-4.
- (3) The minimum size water service connection shall be no less than 19mm in diameter.

B. Application for connection.

- (1) Subject to §849-9, all persons who require water to be supplied to a property or a change or alteration to the existing water service connection in relation to a property shall submit an application on the prescribed City form to the General Manager and shall pay to the City:
 - (a) at the time of making the application, all applicable fees, deposits and charges, including the cost of the new water meter if one is required, in the amounts as set out in Schedules A and B; and
 - (b) those applicable fees and charges set out in Schedule C included in water account bill(s) or invoice(s) by the City for the subject property.
- (2) Any application under subsection §849-4 B.(1) shall be accompanied by such plans as may be required by the General Manager to permit the General Manager to determine if the application is in accordance with the standards and specifications and this by-law.
- (3) The owner of the property shall sign the application and shall be responsible for the completeness and accuracy of the information furnished on the application and in the plans.

C. Installation of water service connection.

- (1) Upon approval by the General Manager of an application submitted in accordance with §849-4 B.(1), a water service connection shall be installed by the City, at the expense of the owner, in accordance with the standards and specifications and at rates, fees and charges prescribed by the City, from time to time.

- (2) In the event that a person connects to the waterworks or installs a water service connection in a manner other than as provided for in this by-law, the General Manager may:
- (a) Re-excavate the connection or water service connection for the purpose of inspection and testing and, if necessary, require the owner to reinstall the work in compliance with this by-law, all at the expense of the owner; or
 - (b) Disconnect the water service connection which shall not be reinstalled or reconnected except with the prior written permission of the General Manager and full compliance with the requirements of this by-law, all at the expense of the owner.

D. Costs of water service connection.

- (1) Upon approval by the General Manager of an application for a water service connection submitted in accordance with §849-4 B.(1), with respect to a dwelling unit to be serviced by a water service connection not exceeding 25mm in diameter, the General Manager shall determine:
- (a) the cost of providing such water service connection in accordance with the rates, fees and charges set out in Schedules A, B and C for such water service connection, established by the City from time to time; and
 - (b) the conditions upon which such water service connection shall be provided,

and the owner shall pay such amounts to the City, prior to the commencement of the installation of the water service connection by the City, and comply with such conditions.

- (2) (a) Upon approval by the General Manager of an application for a water service connection submitted in accordance with §849-4 B.(1), with respect to a property other than a dwelling unit to be serviced by a water service connection not exceeding 25mm in diameter, or of an application as set out in §849-9 A., the General Manager shall determine:
- (i) an estimated cost of providing such water service connection; and
 - (ii) the conditions upon which such water service connection shall be provided,

and the owner shall pay such amount to the City, prior to the commencement of the water service connection installation by the City, and comply with such conditions.

- (b) The owner shall provide the deposit, set out in Schedule B, in respect to a water service connection in accordance with §849-4 D.(2).

- (c) Upon completion of the installation of a water service connection, in accordance with §849-4 D.(2), including surface restoration, the General Manager shall determine the actual cost of the water service connection installation and any restoration. In the event that the actual cost of the work is greater than the amount estimated, the owner shall immediately pay to the City the difference between the actual cost and the estimated amount. In the event that the actual cost of the work is less than the amount estimated, the General Manager shall refund the difference between the actual cost and the estimated amount to the owner.
- (3) An owner shall include in an application for a water service connection submitted in accordance with §849-4 B.(1), with respect to new or renovated buildings, information in respect of the property including, estimated consumption and flow rates, type of business to be carried on at the property, if any, and number of employees working at the property, if any, for the purpose of determining water meter size under §849-5 D. The owner shall sign the application and shall be responsible for the completeness and accuracy of the information furnished on the application including any plans or other documentation accompanying such application. Upon approval of such application by the General Manager, all costs for such water service connection, including the cost of the new water meter, shall be at the sole expense of the owner.
- E. No installation in road allowance.
- No person shall install or cause the installation of a water service connection to be installed within any road allowance, City easement or other City land, save and except an authorized employee, agent or contractor of the City or a person expressly authorized to do so by a written agreement with the City.
- F. Single connections.
- (1) (a) No person shall install a water service connection that services more than one property.
- (b) No owner or occupant of a property shall permit the installation of a water service connection that services more than one property on a property that such person owns or occupies.
- (2) Where a property contains or is altered to contain two or more dwelling units or two or more non-residential units, each such unit that is in contact with the ground and possesses a footprint on the surface of the ground shall have a separate water service connection, private water service pipe, water meter, a conduit for a remote readout unit wire and a wire for the remote readout unit, save and except ground floor units of a building where the building contains units that do not have a footprint on the surface of the ground or condominium properties meeting the exception set out in Section §849-5 S.(1).
- G. Replacement of existing water service connection.

If a new water service connection replaces an existing water service connection, the

existing water service connection shall be disconnected from the City watermain and the shut-off valve shall be removed, all at the same time as the new water service connection is installed. The owner shall pay all costs associated with the disconnection and the new connection.

H. Demolition of a property.

If a building or structure on a property is demolished or substantially demolished, the water service connection shall be disconnected by the City at the connection point to the City watermain. The owner shall pay all costs associated with the disconnection prior to the demolition of the building or structure.

I. Costs of disconnection of water service connection.

(1) In the event that an owner requests a disconnection of a water service connection, in relation to a dwelling unit serviced by a water service connection not exceeding 25mm in diameter, the General Manager shall determine:

- (a) the cost of providing such disconnection in accordance with the rates, fees and charges set out in Schedule A, B and C for such water service disconnection, established by the City from time to time; and
- (b) the conditions upon which such disconnection shall be provided,

and the owner shall pay such amounts to the City prior to the commencement of the disconnection of the water service connection by the City and comply with such conditions.

(2) (a) In the event that an owner requests a disconnection of a water service connection in relation to any property, other than a dwelling unit serviced by a water service connection not exceeding 25mm in diameter, or a disconnection of a water service connection installed for construction purposes in accordance with §849-9, the General Manager shall determine:

- (i) an estimated cost of providing such disconnection; and
- (ii) the conditions upon which such disconnection shall be provided,

and the owner shall pay such amount to the City prior to the commencement of the disconnection by the City and comply with such conditions.

- (b) The owner shall provide the deposit as set out in Schedule B for such water service disconnection.
- (c) Upon completion of the disconnection, including surface restoration, the General Manager shall determine the actual cost of the disconnection and any restoration. In the event that the actual cost of the work is greater than the amount estimated, the owner shall immediately pay to the City the

difference between the actual cost and the estimated amount. In the event that the actual cost of the work is less than the amount estimated, the General Manager shall refund the difference between the actual cost and the estimated amount to the owner.

J. Investigations.

- (1) Where a person suspects a leak or defect in a water service connection, such person may apply in writing to the General Manager to request the City to conduct an inspection of the water service connection and to perform such excavation as may be necessary. In such application, the applicant shall set out the basis upon which the applicant suspects a leak or defect in a water service connection. If the General Manager, in such person's sole discretion, determines that an inspection by excavation is necessary to determine the location or cause of the leak or defect, the person requesting the inspection shall pay to the City the deposit set out in Schedule B prior to the commencement of the excavation. The deposit shall be in the form of either cash or a certified cheque.
- (2) If, pursuant to an inspection initiated under §849-4 J.(1), a leak or defect is found by the City on the water service connection, the City shall refund the deposit paid. If no leak or defect is found, the deposit shall be applied by the City against the cost of the inspection including the cost of excavation and surface restoration and any other services and works performed by the City in relation to the inspection initiated under §849-4 J.(1).
- (3) If, pursuant to an inspection initiated under §849-4 J.(1), no leak or defect is found by the City on the water service connection and the actual cost of the inspection including the cost of excavation and any restoration and any other services and works performed by the City in relation to the inspection is:
 - (a) greater than the amount of the deposit paid, then the person requesting the inspection shall immediately pay to the City an amount equal to the difference between the amount of the deposit and the actual cost of the inspection; or
 - (b) less than the amount of the deposit, then the difference between the amount of the deposit and the actual cost of the inspection shall be refunded to the person who requested the inspection.

K. Acceptance of temporary water service connection.

- (1) An owner may apply in writing on the form prescribed by the General Manager to have a temporary water service connection and temporary private water service pipe accepted as the permanent water service connection and permanent private water service pipe to a property.
- (2) Where the General Manager determines that the temporary water service connection and temporary private water service pipe comply with the City's standards and specifications for a permanent water service connection and permanent private water service pipe, the General Manager may approve and

accept such temporary water service connection and temporary private water service pipe and shall advise the owner accordingly of the General Manager's decision.

L. Installation and inspection of private water service pipe and private fire service mains.

- (1) All private water service pipes and private fire service mains and their appurtenances shall be installed by the owner, at the owner's sole expense, in accordance with all applicable law including, but not limited to, the Building Code, the standards and specifications and this by-law.
- (2) No owner shall install a private water service pipe or private fire service main or permit a private water service pipe or private fire service main to be installed on such owner's property except where:
 - (a) the watermain to which the connection is to be made is fully completed and accepted by the City for operation; and
 - (b) a water service connection has been installed to the satisfaction of the General Manager.
- (3) In the event that a person installs or permits to be installed, a private water service pipe or private fire service main in a manner not in accordance with this by-law, the General Manager or CBO may order the excavation of the private water service pipe or private fire service main or such other action as may be necessary for the purpose of inspection and testing by the City.
- (4) If the CBO or General Manager determines, after an inspection and testing or otherwise, that a private water service pipe or private fire service main has not been installed in accordance with §849-4 L.(1), the CBO or General Manager may, at the expense of the owner:
 - (a) order the owner to perform such remedial work as the General Manager may require to bring the private water service pipe or private fire service main or both, as the case may be, into complete compliance with the standards and specifications and this by-law; or
 - (b) disconnect the private water service pipe or private fire service main or both from the waterworks, upon which the owner shall not reinstall a private water service pipe or private fire service main or both except:
 - (i) upon the prior written approval of the General Manager or the CBO;
 - (ii) upon the payment of all fees, charges and fines payable to the City as a result of such non-compliance and disconnection; and
 - (iii) in complete compliance with the standards and specifications and this by-law.

M. Maintenance and use of private water service pipe and private fire service main.

- (1) No owner of a property shall fail to keep all private water service pipes and private fire service mains on such property including but not limited to fittings, valves, meter chambers and supports thereof in good working order and repair at all times.
- (2) No owner of a property shall fail to repair any and all leaks, defects or malfunctions in, of or on the private water service pipe or private fire service main on such owner's property, including leaks, defects or malfunctions related to valves, fittings or corroded piping, as soon as possible after becoming aware of any such leak or defect or malfunction and no later than forty-eight (48) hours of the receipt of an order from the General Manager to make such repair.
- (3) The General Manager may require the owner to pay the fee as set out in Schedule C with respect to:
 - (a) each inspection and re-inspection that may be required by the General Manager in relation to any repair or failure to make a repair, or
 - (b) any water not registered by a meter or for any water loss or water discharge,

or both, as a result of a leak, defect or malfunction in, of or on the private water service pipe or private fire service main or both on such owner's property.
- (4) The owner shall pay the fees payable under §849-4 M.(3)(b) with respect to unregistered water as set out in Schedule C for each day the owner fails to make the required repairs.
- (5) Notwithstanding §849-4 M.(4), where the owner can provide, to the satisfaction of the General Manager, an accurate record of the actual water lost as a result of the leak, defect or malfunction, the amount payable shall be equal to the amount so recorded to the satisfaction of the General Manager.

N. Frozen water service pipe.

- (1) No owner of a property shall fail to ensure that all private water service pipes, the private water system and private fire service mains on such property are protected from freezing.
- (2) An owner shall be responsible for:
 - (a) any damage incurred as a result of any private water service pipe, private water system or private fire service main on such owner's property freezing; and
 - (b) any water loss or water discharge which occurs as the result of a leak in a frozen private water service pipe, private water system or private fire service main on such owner's property.

- (3) Thawing out frozen water service pipes shall be the owner's responsibility. Where, upon the owner's application, the City assists the owner in the thawing of frozen pipes on the owner's property, all such assistance work shall be performed at the owner's risk and the owner shall have no claim whatsoever against the City by reason of such work.

§849---5. Water meter installation

A. Water to be metered.

- (1) No person, other than authorized Toronto Fire Services personnel or other City personnel acting in the course of their duties or authorized agents or contractors of the City expressly acting within the scope of their work or services, shall use or permit the use of water that has not passed through a water meter.
- (2) No owner shall fail to have a water meter installed and in use at such owner's property where such property is supplied with water by the City.
- (3) §849-5 A. (1) and (2) shall not apply where:
- (a) water is used by consumers at a property serviced by the City with water on a flat rate payment basis as of the date of the coming into force of this by-law.
 - (b) water is used for construction under §849-9; or
 - (c) the use of unmetered water is otherwise permitted by this by-law.
- (4) Notwithstanding §849-5 A.(3), §849-5 A.(1) and (2) shall apply where water is used by consumers at a property serviced by the City with water on a flat rate payment basis as of the date of the coming into force of this by-law to :
- (a) a property containing an irrigation system, in-ground swimming pool, spa, hot tub, a permanent above ground swimming pool, an ornamental fountain, or water cooled machinery or equipment; or
 - (b) a property is a commercial or industrial building, a place of worship building, an apartment building, or a building with four or more dwelling units; or
 - (c) the water service connection to the property is replaced, whether it is within the property or the street allowance adjacent to the property;
- (5) Any person who uses water, in contravention of §849-5 A.(1), (2) or (4), shall pay the fee set out in Schedule C for each day that any such water is used.
- (6) Notwithstanding §849-5 A.(3), the General Manager may require the owner of a property serviced by the City on a flat rate basis as at the date of the coming into force of this by-law to have a water meter, a remote readout unit, and related

equipment and materials installed by the City and in use at such owner's property, pursuant to a universal metering program.

- (7) Notwithstanding §849-5 A.(3), the General Manager may require the owner of a property serviced by the City and equipped with a water meter to have a new water meter or a remote readout unit, or both, and related equipment and materials installed by the City pursuant to a water meter installation or replacement program or project or automated meter reading program of the City.

B. Installation of water meter.

- (1) No person shall install a water meter except in accordance with this by-law unless otherwise authorized in writing by the General Manager
- (2) Water meters, including strainers where required, valving and water meter by-pass arrangements for new or renovated buildings shall be installed by the owner, at the sole expense of the owner, in accordance with the standards and specifications.
- (3) Every owner, required to install a water meter in accordance with this by-law, shall install a water meter on such owner's property in a secure location within seven days of receiving it from the City.
- (4) Despite any other provision of this by-law, the water meter, conduit and wire for the remote readout unit shall be installed prior to occupancy of a new or renovated building or part thereof. The water meter, conduit and wire for the remote readout unit shall be installed by the owner and inspected by the CBO and sealed by the General Manager. If a telephone line or electrical outlet is required by the standards and specifications, such telephone line complete with telephone jack, and electrical outlet, shall also be installed by the owner and shall be operational at the time that the water meter is installed. All costs in relation to the installation, including the costs of the necessary telephone line, shall be the responsibility of the owner.
- (5) Except as otherwise provided for in this by-law, the water supply to a property will not be turned on until the General Manager has inspected and sealed the water meter installed at the property as set out in §849-6.
- (6) No person shall turn on the water supply to a property until the General Manager has inspected and sealed the water meter installed at the property, other than authorized Toronto Fire Services personnel or other City personnel acting in the course of their duties or authorized agents or contractors of the City expressly acting within the scope of their work or services.
- (7) In the event that the water supply to a property has been turned on prior to the General Manager's inspection and sealing of the water meter at the property, the General Manager shall be entitled to shut off the supply of water to the property.
- (8) Notwithstanding §849-5 B.(3) and (4), in the case of a property subject to meter installation or replacement in accordance with a universal metering program or

automated meter reading program, the City may install such water meter, conduit and wire for the remote readout unit and automated meter reading equipment.

C. Supply and payment for water meters.

- (1) The City shall provide water meters to each new or renovated building to which water is supplied. Strainers and connection fittings including water meter flanges to be attached to the water meter shall also be provided by the City when required by the standards and specifications. The owner shall pay the fees and charges as set out in Schedule A for such water meter, strainers, connection fittings, hardware, and flanges at the time of submission of the water service connection application. No such application shall be approved by the City until all such fees and charges have been paid.
- (2) Water meters additional to the existing water meter(s) or water meters required by this by-law, may only be installed at the discretion of the General Manager.
- (3) Except for properties which do not have a water meter as of the date of this by-law coming into force and which are subject to the universal metering program or properties which the City supplies with water meters as part of the automated meter reading program, the owner shall pay the fees and charges as set out in Schedule A for such water meter, strainers, connection fittings, hardware, and flanges at the time of submission of the water service connection application. No such application shall be approved by the City until all such fees and charges have been paid.
- (4) The City shall be the sole supplier of all water meters registering consumption of water supplied and billed by the City.
- (5) The City shall retain ownership of all water meters, strainers and connection fittings including the water meter flanges supplied by the City.

D. Size of water meter.

- (1) The General Manager shall determine the size of the water meters to be supplied to a property having regard to the consumption and flow rates required by the owner, based on the information supplied by the owner in its application as required by §849-4 D.(3), and the standards and specifications.
- (2) An owner may submit an application on the prescribed City form to the General Manager in respect of an existing building, for a change in the size of the water meter on the property.
 - (a) In the owner's application, the owner shall provide the General Manager with anticipated consumption and flow rates, type of business, if any, and number of employees working at the property, if any.
 - (b) The owner shall sign the application, and the owner shall be responsible for the completeness and accuracy of the information furnished on such

application including any plans or other documentation accompanying such application.

- (c) All costs related to the application and, where approved, related to a change in size of water meter, including the cost of the new water meter, shall be at the sole expense of the owner, regardless of whether or not such change is approved by the General Manager
- (3) To confirm the accuracy of the information provided by the owner on an application made in accordance with §849-4 D.(2), including any plans or other documentation accompanying such application, the General Manager may conduct flow monitoring tests on the private water service pipe or private water system of the subject property to determine the appropriate size and type of water meter to be installed on the property.
- (4) The owner shall, at reasonable times, provide the General Manager with clear and unobstructed access to the private water service pipe and private water system for the purpose of conducting any flow monitoring tests under §849-5 D.(3).
- (5) In the event that the result of the flow monitoring tests under §849-5 D.(3), indicate that the capacity of the new water meter is not appropriately sized for the property, the owner shall, at the owner's sole expense, change the water meter and adjacent piping to comply with the standards and specifications, if directed by the General Manager.
- (6) For new or renovated buildings, and despite any other provision of this by-law, the charge payable by an owner for a water meter shall be based on a water meter of the same size as the new private water service pipe.
- (7) For existing water meter installations, the General Manager may install a water meter of a size more appropriate, in the General Manager's determination, for the owner's flow requirements and make any necessary adjustments to the piping around an existing water meter if flow monitoring tests indicate that the capacity of the existing water meter is not properly sized for the property.
- (8) An owner of a property shall permit the General Manager to install a non-intrusive flow monitoring device on the private water service pipe or private water system near the water meter to enable the General Manager to determine if the existing water meter is the correct size for the property. The owner shall provide the General Manager with access to the property at reasonable times for the purpose of conducting such flow tests.

E. Water meter installation.

- (1) For all new or replacement water service connection installations, the owner shall notify the General Manager within seven days of receipt of the water meter from the City when the water meter has been installed in accordance with the standards and specifications as set out in §849-5 B., save and except where §849-5 B.(8) applies.

- (2) No owner shall fail or refuse to install a water meter on such owner's property within seven days of receipt of the water meter from the City.
- (3) No owner shall refuse or obstruct the City in the installation of a water meter and related items and automated meter reading equipment pursuant to a universal metering program or automated meter reading program.
- (4) In the event that an owner fails or refuses to install a water meter and any related items and equipment as required, and such failure or refusal necessitates more than one attendance at the property by the City to carry out an inspection, whether carried out or not, or for otherwise determining compliance with this section, this by-law or both and for any work carried out by the City, in addition to any fine that may be imposed, the owner shall pay the inspection fee in accordance with Schedule C for each such additional attendance to the property.

F. Notification by owner.

Upon receipt of an approval from the CBO for the installation of new plumbing or for all new or replacement private water service pipe installations, where a water meter is required to be installed pursuant to this by-law, the owner shall immediately notify the General Manager when the property is ready for the installation of the water meter.

G. Provision for water meter.

An owner of a property shall ensure that provision is made in the piping system of all existing, new and renovated buildings or structures for the installation of a water meter of the same diameter as the private water service pipe in accordance with the standards and specifications.

H. Water meter by-pass piping.

- (1) When the property is not in compliance with this by-law, the General Manager may require the owner of a property which is not a dwelling unit, containing a water meter, to supply, install and maintain in good working order a by-pass pipe and valves in accordance with the standards and specifications, at the owner's sole cost.
- (2) The by-pass pipe and valves to be supplied and installed in accordance with §849-5 H.(1) shall be configured so as to permit the testing, repair or replacement of the water meter without an interruption of the water supply.
- (3) The General Manager shall seal the by-pass valve, to be supplied and installed in accordance with §849-5 H.(1), in the closed position upon notification of its installation by the owner.
- (4) No person shall break the seal of the General Manager on a by-pass valve, except with the prior authorization of the General Manager.
- (5) Where the by-pass pipe or valves of a property are not in accordance with the standards and specifications, the General Manager may order the owner:

- (a) to install a new or replacement water meter by-pass pipe or valves at the owner's expense; or
 - (b) to remove any defective pipe or valves and install new pipe or valves.
- (6) An owner shall comply with an order made under §849-5 H.(5) within seven (7) calendar days from receipt of the order from the General Manager.
- (7) If an owner fails to:
- (a) supply, install or maintain the by-pass pipe and valves in proper working order in accordance with §849-5 H.(1); or
 - (b) comply with an order of the General Manager made pursuant to §849-5 H.(5) within the time required,

the General Manager may supply, install, repair, replace or otherwise maintain the by-pass pipe and valves, as the General Manager considers appropriate, in which event the owner shall pay to the City the full cost of the work and the inspection fee for each attendance at the property as set out in Schedule C.

I. Water meter chamber.

- (1) If the General Manager is of the opinion that a water meter cannot be located inside a building or structure in accordance with the standards and specifications or if the distance between the streetline and the location where the water meter would be located inside the building or structure is greater than thirty (30) metres beyond the streetline, the General Manager may require the water meter to be installed in a water meter chamber constructed by the owner in accordance with the standards and specifications, at the owner's expense.
- (2) Where required under §849-5 I.(1), a water meter chamber shall be located within the property of the owner and within three metres of the streetline, in a location approved by the General Manager prior to construction.
- (3) No owner shall obstruct nor permit the obstruction of a water meter chamber.
- (4) No owner shall place shrubs, trees or other landscaping within one and one half metres of the outer perimeter of a water meter chamber.
- (5) An owner shall keep all landscaping on such owner's property cut back and clear of a water meter chamber.
- (6) (a) To facilitate the reading of the water meter, the General Manager may require the owner to prepare the water meter chamber cover for the installation of a chamber cover type remote readout unit in accordance with the standards and specifications, at the owner's sole expense.

- (b) If the General Manager determines that a chamber cover type remote readout unit device is not appropriate for a location, the General Manager may:
- (i) determine the appropriate type and location of the remote readout unit and the owner shall install such unit at the owner's expense, or
 - (ii) require the owner, at the owner's expense, to install a mounting post and plate to accommodate the remote water meter reading system at a location satisfactory to the General Manager,

all in accordance with the standards and specifications.

J. Remote readout unit and remote readout unit wire.

- (1) The City may provide each metered property with a remote readout unit or units and a wire for each such remote readout unit(s) for each water meter at the property. The City shall be the sole supplier of such remote readout units and wires. Ownership of the remote readout unit(s) and wires shall remain with the City.
- (2) The owner of a property shall supply and install a metallic electrical quality conduit, which complies with the City standards and specification, to contain the remote readout unit wire in accordance with the standards and specifications for new buildings or renovated buildings or properties where the remote readout unit wire has become damaged.
- (3) The owner of a property shall protect the remote readout unit and wire from damage.
- (4) The owner of a property, at the owner's sole expense, using wire supplied by the City, shall install remote readout unit device wire for new installations at new or renovated properties or replace any damaged remote readout unit device wire in accordance with the standards and specifications.
- (5) If the wire or the metallic electrical conduit required under §849-5 J.(2) becomes damaged the General Manager shall provide new wire at the owner's sole expense and the owner shall replace the existing wire and damaged conduit within fourteen 14 days of written order from the General Manager to do so.
- (6) If the remote readout unit becomes damaged, the owner of the property shall pay the full cost to the City for the City to supply and install a new remote readout unit as set out in Schedules A and C.
- (7) The General Manager shall inspect and connect the new wire or remote readout unit installation and the owner of the property shall provide access to the General Manager to the property to permit the General Manager to do so.
- (8) If damage occurs to the remote readout unit, the General Manager may require the

owner to make space available for a protective device and to install such protective device, supplied by the General Manager at the owner's cost, over the remote readout unit in accordance with the City's standards and specifications.

- (9) If damage occurs to the remote readout unit wire, the General Manager may require the owner of the property to make space available for a metallic electrical quality conduit over such remote read out unit wire and the owner shall, at the owner's sole expense, supply and install such conduit and install the remote readout wire, supplied by the City, all in accordance with the standards and specifications.
- (10) An owner of the property shall ensure that the remote readout unit is easily accessible to the General Manager at all times and at no time shall access to it be obstructed.
- (11) An owner of the property may submit an application on the prescribed City form to the General Manager to change the location of a remote readout unit.
- (12) The General Manager shall only approve the relocation of a remote readout unit if the proposed location is in compliance with the standards and specifications.
- (13) If an application for the relocation of a remote readout unit is approved, the owner of the property shall relocate the remote readout unit, the wire and conduit in compliance with the standards and specifications. In no event shall any splices be permitted in the remote readout unit wire. New wire of sufficient length shall always be used when a remote readout unit is relocated.
- (14) The owner of the property shall pay all costs associated with the relocation of a remote readout unit.
- (15) Notwithstanding §849-5 J., in the case of a property subject to meter installation or replacement in accordance with a universal metering program or automated meter reading program, the City may install a remote readout unit and wire for the remote readout unit at its cost.

K. Dedicated telephone line and electrical outlet

- (1) Every owner shall install a dedicated telephone line or an electrical outlet, or both, for a remote readout unit complete with telephone jack or electrical outlet, or both, if required by the standards and specifications or if so required by the General Manager. The telephone line and electrical outlet shall be operational at the time that the water meter is installed.
- (2) If a water meter is to be installed at a property where the installation is not required to be in a water meter chamber and the water account will be a high volume account, the owner shall provide a dedicated telephone line and connection and electrical outlet within one metre of the water meter if so required by the General Manager. For the purpose of reading the water meter, the dedicated telephone line and electrical outlet shall be installed in accordance with

the standards and specifications and shall provide uninterrupted service and be dedicated for the sole purpose of reading and monitoring the water meter.

- (3) The owner shall pay all costs, including installation, maintenance and rental costs for the telephone line and connection and any costs in relation to the electrical outlet.

L. Number of water meters.

- (1) If two or more water service connections supply water to a property, each water service connection shall be separately metered.
- (2) If required by the CFO for billing purposes, an owner of a property shall install the number of water meters necessary in the determination of the CFO to meet such purposes and the owner shall pay all costs associated with such installations.

M. Water meter on private fire service main.

Where a property has a new private fire service main the owner shall, at the owner's cost, provide and install a detector check valve and install a water meter at such main in accordance with the standards and specifications.

N. Temporary water meter.

- (1) If the installation of a temporary water meter is permitted or required pursuant to this by-law, the owner of the property shall pay to the City the deposits set out in Schedule B in respect of such water meter and backflow prevention device, where supplied by the City, required by the General Manager in accordance with the standards and specifications. The City shall supply such temporary water meter to the owner upon the payment of the required deposits by the owner and the owner shall be responsible for the installation and subsequent removal and return to the General Manager of such temporary water meter.
- (2) The deposits required under §849-5 N.(1) will be returned to the owner only after the owner has returned the temporary water meter and backflow prevention device in a condition satisfactory to the General Manager and a permanent water meter has been installed, if one is required in accordance with this by-law.
- (3) The owner shall be responsible for any loss or damage to a temporary water meter or backflow prevention device installed under §849-5 N.(1). If a loss or any damage occurs, the replacement cost of the water meter and the backflow prevention device or the cost to repair any damage shall be deducted from the amount of the deposit. Where the deposit is insufficient to cover all costs, loss or damage, the owner shall pay such shortfall to the City immediately upon notice by the City of such shortfall. Where the costs and any loss or damage are less than the deposit, the City shall return any remaining balance of the deposit to the owner.
- (4) The owner shall pay for the water consumption registered on the temporary water meter and shall be billed in accordance with current water rates as set out in

§849-9.

- (5) Where a temporary water meter will be installed, the City may supply and the owner shall install a backflow prevention device in accordance with §849-8 and the standards and specifications.
- (6) As an alternative to the General Manager supplying the backflow prevention device, the General Manager may require the applicant to supply, install and maintain a backflow prevention device in accordance with §849-8 and the standards and specifications approved by the General Manager for such purpose. Prior to installation by the applicant, the applicant shall demonstrate to the satisfaction of the General Manager, including providing original documentation, that such backflow prevention device is in compliance with the standards and specifications and will function properly.

O. Water meter loss or damage.

- (1) Every owner shall be responsible for any loss or damage to every water meter on such owner's property including any damage from freezing.
- (2) If a water meter is lost or damaged the owner shall pay the fees as set out in Schedule A for the full replacement cost of the water meter, strainer, connection fittings, hardware, and flanges and any labour or other costs, as set out in Schedule C, related to any repair or removal of a damaged water meter or to the installation of a new water meter of a similar size and type or both.
- (3) If a water meter is lost or damaged, the General Manager may order the owner to install a new replacement water meter or remove the damaged water meter and install a new water meter at the expense of the owner.
- (4) If the General Manager orders the owner to remove the damaged water meter or install a new water meter, or both, in accordance with §849-5 O.(3), the owner shall comply with such order to remove the damaged water meter, where applicable, and to install the new water meter within seven (7) calendar days from the date the General Manager delivers the new water meter to the owner.
- (5) If an owner fails to comply with an order of the General Manager in accordance with §849-5 O.(3) and (4), the General Manager may make such repair or replacement of the water meter, as the General Manager considers appropriate, and the owner shall pay to the City the full cost of such work and the inspection fee for each attendance at the property by the General Manager as set out in Schedule C.

P. Temporary spacer piece.

No person shall install, or permit to be installed, a temporary spacer piece in or on a property in place of a water meter, except the City in the event of an emergency.

Q. Seasonal water service connection.

- (1) If an owner requires a permanent water service connection that will be used only for a portion of a year, the owner may submit an application on the prescribed City form to the General Manager for a seasonal water meter and seasonal water service connection. The owner shall pay all costs associated with such water meter and connection as set out in §849-4 .
- (2) The owner shall pay the annual activation charge, including installation and removal of the seasonal water meter and turning on and off the water supply, set out in Schedule C for a seasonal water meter and seasonal water service connection.
- (3) The initial installation of a seasonal water meter shall be done by the owner, at the owner's sole expense. All subsequent installations and removals, if any, shall be done by the General Manager and the owner shall pay the annual activation charge set out in Schedule C.
- (4) Seasonal water meters shall be installed in a seasonal water meter chamber in accordance with the standards and specifications or as otherwise approved in writing by the General Manager. Seasonal water meter chambers shall be located on the owner's property at a location within three metres of the streetline and as approved by the General Manager. The owner shall be solely responsible for the installation and maintenance of the seasonal water meter chamber.

R. Private water meters.

- (1) No person shall connect or permit the connection of a private meter to any water supply pipes unless it is connected on the downstream side of the City water meter and any by-pass pipe.
- (2) Except for existing properties with a private meter that is read by the CFO and used to measure the quantity of water consumed at a property for billing purposes, as of the date of the coming into force of this by-law, the City will not supply, install, inspect or read a private meter nor will it use water consumption registered on a private meter for the purposes of calculating fees and charges payable to the City for water consumption.
- (3) When, in the opinion of the General Manager, a private meter used for billing purposes as set out in §849-5 R.(2) requires repair or replacement, such private meter shall be replaced by a water meter that is supplied, owned, serviced, maintained and read by the City.

S. Condominium applications.

- (1) Every owner of a property who has a condominium development application approved by the City with respect to the property shall install or cause to be installed a separate water service connection, private water service pipe, water meter, a conduit for a remote readout unit wire and a wire for the remote readout unit in respect of each condominium unit that:

- (a) is in contact with the ground and possesses a footprint on the surface of the ground; and
- (b) has either the front, rear or flank of the unit adjacent to the waterworks; and
- (c) has no other condominium unit directly above or below the condominium unit,

except in a condominium development where there are 4 or fewer condominium units which meet all of the criteria in paragraphs (a), (b) and (c) above.

- (2) For condominium developments where all of the condominium units in the development meet the conditions of §849-5 S.(1), a common element watermain for domestic water service to any of the condominium units in the development shall not be constructed.
- (3) Where the condominium units in a condominium development are to be serviced by a shared common element watermain, every owner shall install or cause to be installed a single water meter on such common element watermain.
- (4) Any water service connection, private water service pipe, water meter, conduit, remote readout unit and wire required pursuant to §849-5 S.(1), (2) and (3) shall be installed by, or be caused to be installed by the owner, before any condominium unit is occupied or upon substantial completion of construction of any condominium unit, whichever is sooner. Such water service connection, private water service pipe, water meter, conduit, remote readout unit and wire shall be installed in accordance with this by-law and the standards and specifications.
- (5) For the purpose of §849-5 S, a “condominium unit” shall exclude a condominium unit used for parking or storage purposes, but shall include a “parcel of tied land” as defined under S. 24(1) of Ontario Regulation 49/01, made under the Condominium Act, 1998, as amended from time to time.
- (6) In the event that a water service connection, private water service pipe, water meter, a conduit, a remote readout unit, or a wire are not installed in accordance with §849-5 S.(1), (2), (3), (4) and (5), then the owner under that provision shall pay for the water used by any such condominium unit in accordance with the construction water rates pursuant to §849-9 until such time as a water service connection, private water service pipe, water meter, conduit, remote readout unit and wire are all installed and functioning properly, all in accordance with the standards and specifications.
- (7) The provisions in §849-5 S. shall not apply to any development for which either site plan approval pursuant to Section 41 of the Planning Act, or a building permit, was issued prior to the date of the enactment of this by-law.

§849---6. Water meter inspection.

A. Inspection and sealing.

- (1) Every water meter installed on a property shall be inspected and sealed by the General Manager at or about the time of installation.
- (2) Where the General Manager or CFO conducts an inspection or performs other work under §849-6 A.(1) or §849-6 B.(1) or (2), or both, the owner may be required to pay a fee for such inspection or performance of such other work, or both, pursuant to 849-5 E.(4) or 849-17 and as set out in Schedule C.

B. Access.

- (1) Every owner and occupier shall, at reasonable times and on reasonable notice, permit the General Manager to have free, clear and unobstructed access to such person's property and to the location where a water meter is to be installed in or on that property or to permit the General Manager to inspect, test, read, repair, maintain, alter, disconnect, remove, replace or install a water meter or seal a water meter which has been installed. Without limiting the generality of the foregoing, the location of a water meter shall be accessible without the use of a portable ladder or the necessity of climbing over or removal of an obstacle.
- (2) Every owner and occupier shall, at reasonable times and on reasonable notice, provide the CFO with free, clear and unobstructed access to the property for the purpose of reading and inspecting the water meter or for the purpose of determining the number of rooms and fixtures in the premises where the property is billed on a flat rate basis.
- (3) When requested by the General Manager or CFO, an owner or occupier, as the case may be, shall remove any insulating or other material from, on or around a water meter in order to provide the General Manager or CFO with full, unobstructed access to the water meter. Any replacement of such material shall be done by the owner at the owner's sole expense in accordance with the standards and specifications and all applicable law, including the *Occupational Health and Safety Act*.
- (4) As part of an inspection, the General Manager or CFO shall at all times be permitted to take photographs, including digital images, of any plumbing, water meter, private meter, by-pass pipe and valves, inlet and outlet valves, cross connection control device, backflow prevention device, private water system, private water service pipe, private fire service main or water meter chamber.

C. Water meter interference prohibited.

- (1) No person, except a person authorized by the General Manager, shall open, or in any way alter or tamper with any water meter or seal or do anything which may interfere with the proper registration of the quantity of water that passes through a water meter or ought to pass through a water meter.
- (2) No owner or occupier shall permit any person, except a person authorized by the General Manager, to open, or in any way alter or tamper with any water meter on

such owner's or occupier's property, or seal or do anything which may interfere with the proper registration of the quantity of water that passes through a water meter or ought to pass through a water meter on such owner's or occupier's property.

- (3) No person shall connect or permit to be connected any pipe or other thing to a private water service pipe upstream of a water meter or the by-pass pipe and valves.
- (4) If the General Manager determines that a seal on a by-pass valve or a water meter has been tampered with or is broken, the General Manager may chain and lock the by-pass valve in the closed position and may reseal the water meter and the owner shall pay the fee set out in Schedule C in relation to the work.

§849--7 Maintenance.

A. Maintenance of water meter appurtenances and piping.

- (1) Every owner shall ensure that all valves are fitted with proper handles and shall provide, install and properly maintain all valves to, from and around the water meter as required by the standards and specifications.
- (2) To allow for proper flow of water or maintenance of equipment, the General Manager may require an owner to install, or cause to be installed, the proper valving arrangement in respect of the supply of water to the property in accordance with the standards and specifications at the owner's sole expense.
- (3) Every owner shall maintain all plumbing including all piping, fittings and valves to and from and around a water meter in good working order and shall replace and repair them as necessary all in accordance with the standards and specifications. Owners shall not be responsible for maintaining the water meter or strainer.
- (4) Every owner shall, at reasonable times and on reasonable notice, permit the General Manager to inspect the private water service pipe, private water system, private fire service main, or the inlet, outlet, flushing, drainage and by-pass valves on piping adjacent to or around the water meter.
- (5) If the General Manager determines that the condition of a private water service pipe, private fire service main, or private water system or valves on piping adjacent to the water meter is such that the water meter cannot be properly or safely tested, calibrated or repaired in place or removed for the purpose of testing, replacing or repairing, the owner shall, at the owner's sole expense, repair or, if necessary, replace the private water service pipe, private fire service main, or private water system or valves, as the case may be, to enable the General Manager to test, calibrate, repair or remove the water meter.
- (6) Where the General Manager makes a determination in accordance with §849-7 A. (5), the General Manager may issue an order to the owner to repair or replace the private water service pipe or private fire service main or private water system or

valves, as the case may be, within 21 days of the receipt of such order, at the owner's expense.

- (7) If an owner does not carry out the work as required in an order under §849-7A.(6), the General Manager shall be entitled to carry out the work and shut off the water supply to the property during the removal, replacement, repair, testing and calibration of the water meter. The City shall not be responsible for any loss or damage to the owner's property or loss or damage otherwise suffered by the owner arising from such work or the shut off of the water supply.
- (8) The owner shall pay to the City all costs incurred by the City as a result of the owner failing to make the necessary repairs or replacements as required under §849-7 A. or B. and shall also pay the inspection fee, as set out in Schedule C, for each attendance at the property.
- (9) If, after removing, replacing, repairing, testing or calibrating the water meter, the General Manager determines that the private water service pipe or private water system or any valves or fittings leaks or may develop a leak, then the General Manager shall be entitled to shut off the water supply to the property until such time as the owner effects repairs to stop or prevent leakage, at the owner's expense.
- (10) The General Manager shall replace an existing water meter where the General Manager determines it requires replacement due to normal wear and tear, at the expense of the City.

B. Maintenance of water meter chamber.

- (1) Every owner shall be responsible for maintaining, repairing and replacing any water meter chamber containing a water meter for the owner's property and for keeping it in a safe condition.
- (2) Every owner of property with a water meter chamber or seasonal water meter chamber or both shall remove or cause to be removed, and shall dispose of, all solid and liquid debris, waste and other materials which are non-essential to the proper functioning of the water meter or may be hazardous, toxic, combustible or explosive in nature, from the water meter chamber. The removal and disposal of such material is subject to all applicable law including Municipal Code Chapter 681, Sewers.
- (3) At the request of the General Manager or CFO, and upon reasonable notice, every owner shall provide the General Manager or the CFO, as the case may be, with access to any water meter chamber or seasonal water meter chamber or both for the owner's property to permit the General Manager or the CFO to inspect, maintain, repair, replace or read the water meter. The owner shall ensure that all solid and liquid material is removed from the chamber to enable such access.
- (4) The owner shall notify the General Manager or the CFO a minimum of 48 hours in advance of the scheduled date and time for access, pursuant to §849-7 B.(3), of the removal of the material. If the owner is unable to remove the material from the

water meter chamber or seasonal water meter chamber or both so as to provide access within the time set out in the notice, the owner shall so notify the General Manager or the CFO no less than 48 hours before the time of the proposed inspection or other purpose for which the access is required, and shall, at the same time, further advise the General Manager or the CFO of a date and time, no more than 5 days later, when access will be provided.

- (5) If an owner fails to provide the General Manager or the CFO with access to a water meter chamber or seasonal water meter chamber or both in accordance with §849-7 B.(3) or the required notice in §849-7 B.(4), the owner shall pay the inspection fee, set out in Schedule C, for each subsequent attendance at the property made by the General Manager or the CFO for the purpose of the General Manager or CFO obtaining access to or into the water meter chamber or seasonal water meter chamber or both in accordance with §849-7 B.(3).

C. Water meter accuracy.

- (1) All water meters measuring consumption for billing purposes shall meet or exceed all current minimum AWWA standards for accuracy.
- (2) An owner, upon written application to the General Manager or CFO in the form prescribed by the General Manager from time to time, may have the water meter at the owner's property tested by the General Manager or CFO to determine if the water meter is over-registering the amount of water consumed at the property. The owner shall pay to the City the fee as set out in Schedule C for such testing.
- (3) If a water meter is found to over-register when tested by the General Manager at the combined weighted average flow rate in accordance with AWWA standards for accuracy, the CFO shall credit the owner's account with an amount equal to the difference between the amount that had been billed and the amount that would have been billed had the water meter been recording consumption accurately, such adjustment shall cover a period of no more than 24 months and shall be subject to any limitations contained in Municipal Code Chapter 441 and the Water and Sewage Services By-laws . Such credit shall include the testing fee as set out in §849-7 C.(2).
- (4) Despite §849-7 C.(3), in the event that the water meter had been installed, replaced, or tested and calibrated within the 24 month period prior to the test under §849-7 C.(2), then instead of the adjustment set out in section §849-7 C.(3), the CFO shall credit the owner's account with an amount equal to half of the difference between the excess amount billed from the time of the installation, replacement or testing and calibration, whichever is later, to the time of the accuracy test requested by the owner, and shall be subject to any limitations contained in Municipal Code Chapter 441 and the Water and Sewage Services By-laws.
- (5) Despite §849-7 C.(3) and (4), in the event the accuracy test indicates over-registration by the water meter in an amount less than or equal to 1.5 % then no credit shall be applied to the owner's account.

- (6) If a water meter is found not to over-register when tested by the General Manager at the combined weighted average flow rate in accordance with §849-7 C.(8), the owner shall pay to the City, in addition to the fee set out in §849-7 C.(2), any additional expenses incurred by the City in removing, replacing, flow monitoring or testing the water meter, or any or all of the foregoing as the case may be, as set out in Schedule C.
- (7) Positive displacement type water meters up to and including 50mm in size may be removed by the General Manager and tested at an off-site location specified by the General Manager. Compound, turbine, electromagnetic and fire service water meters 50mm in size or greater shall, in the General Manager's sole discretion, be tested either on site or at an off-site location specified by the General Manager.
- (8) Under §849-7 C.(2), the weighted average used to determine the accuracy of a water meter in a dwelling unit shall be in accordance with the current AWWA standards for accuracy, and the weighted average used to determine the accuracy of a water meter in a non dwelling unit or non-residential building or property may be as determined by a flow monitor placed on the private water service pipe or private water system, in accordance with the current AWWA standards for accuracy.
- (9) If an owner requests a flow monitor, in the case where the owner is disputing the accuracy of the water meter, the owner shall provide sufficient room for the installation of the flow monitoring device on the private water service pipe adjacent to the water meter and shall provide to the City the deposit for the flow monitoring device and the installation and removal of the flow monitoring device as set out in Schedule B, prior to the installation of the flow monitor.

D. Relocation of water meter.

- (1) No person shall change or permit to be changed the location of a water meter at a property once the water meter is installed to the satisfaction of the General Manager, without the prior written consent of the General Manager.
- (2) An owner may submit an application on the prescribed City form to the General Manager or the CBO, to change the location of a water meter on such owner's property. The owner shall pay all costs associated with any relocation of the water meter, if approved by the General Manager.
- (3) The General Manager or the CBO shall not approve an application for a water meter re-location if:
 - (a) the application is incomplete; or
 - (b) the prescribed fee is not paid; or
 - (c) the proposed relocation is not in accordance with the standards and specifications with respect to the location of the water meter or otherwise.

- (4) Any relocation of the water meter shall include the installation of a new wire for any existing or required remote readout unit by the owner, in accordance with the standards and specifications, all at the expense of the owner.
- (5) The General Manager may require the relocation of an installed water meter, at the sole cost of the owner, if its location is not in compliance with the standards and specifications or any applicable law.
- (6) An owner of a property shall bury a private water service pipe in concrete on the upstream side of the water meter to a point within one metre of the relocated water meter if the relocation of the water meter would result in the water meter being placed at a distance greater than one metre from the point where the private water service pipe enters a building or structure on the property.
- (7) An owner of a property shall install the relocated private water service pipe in a trench in the floor of any building serviced by the private water service pipe and shall provide a minimum of 100mm of concrete cover for such pipe.
- (8) Every owner of a property shall permit the General Manager or CBO to inspect a private water service pipe and private water system installation prior to any backfilling with concrete taking place.
- (9) In the event that an owner has placed concrete backfill over the private water service pipe or private water system prior to the inspection by the General Manager or the CBO pursuant to §849-7 D.(8), the owner shall remove any concrete which has been placed, at the owner's expense, to permit the inspection.
- (10) All relocation work and material shall conform to the standards and specifications and comply with the requirements of the Ontario Building Code.
- (11) If an owner fails to relocate a water meter, private water service pipe or private water system in accordance with the requirements of §849-7 D., the owner shall pay the inspection fee set out in Schedule C for each attendance at the property made by the General Manager or the CBO for the purposes of inspecting the property to determine if the work has been performed by the owner in compliance with the standards and specifications and this by-law.

E. Water meter leaks.

- (1) An owner of a property shall immediately, and no later than within 72 hours, notify the General Manager if any leaks develop at the water meter or its couplings.
- (2) The City shall not be responsible for any damage to the property as a result of any leaks at the water meter or its couplings.

F. Building demolition.

- (1) No person shall demolish a building, or permit a building to be demolished until the final water meter reading is obtained and the water meter and remote readout unit are recovered by the General Manager.
- (2) An owner who has received a permit to demolish a property shall notify the General Manager in writing at least seven days in advance of the date on which the water supply to the property is no longer required and shall make an appointment with, and provide access to, the General Manager to enable the General Manager to take a final water meter reading and to remove the water meter and the remote readout unit from the property and turn off the water supply at the shut-off valve.
- (3) The owner or the owner's representative shall be present at the property when the final water meter reading is taken, the water meter is removed and the water supply is turned off.
- (4) The owner shall pay the fee set out in Schedule C for the turn off of the water supply to the property and shall pay all costs of the City related to the disconnection of the water service connection from the waterworks in accordance with §849-4.
- (5) In the event an owner or the owner's representative fails to attend at the property and provide access to the General Manager at the appointment time set under §849-7 F.(2), the owner shall pay the missed appointment fee set out in Schedule C.
- (6) In the event an owner fails to provide access to a property prior to the demolition of a building or structure on the property, in accordance with §849-7 F.(1), the owner shall pay to the City an amount equal to the cost of a new water meter and remote readout unit of the same type and size as was unable to be recovered by the General Manager from the property in accordance with the fees and charges set out in Schedule A. The owner shall also pay the amount of water consumption, from the last water meter reading date to the date of disconnection of the water service connection from the waterworks, estimated by the CFO.
- (7) Despite §849-7 F.(1) and (6), if the General Manager determines that it is not necessary to recover a water meter from a property to be demolished, the General Manager shall so notify the owner in writing, after receipt of the notice from the owner that the owner has received a permit to demolish a building or structure, and the owner may proceed with the demolition of the building. In such case, the owner shall be responsible for the removal and disposal of the water meter.

§849--8 Private water system.

A. Installation.

- (1) Private water systems shall be installed by the owner, at the owner's expense, in accordance with all applicable law including but not limited to the Ontario Building Code, this by-law, and the standards and specifications.

- (2) No person shall commence any work under §849-8 unless a building permit has been issued for the work by the CBO.
- (3) No owner or occupant shall permit the commencement of any work under §849-8 on such owner or occupier's property unless a building permit has been issued for the work by the CBO.
- (4) No owner or occupant shall perform or permit the performance of any installation, renovation or alteration of private water service pipes, private fire service mains, private fire hydrants, private water systems and appurtenances, cross connection control devices or backflow prevention devices and all related items on such owner or occupier's property until they have been issued a permit for the work by the CBO.

B. Disinfection.

- (1) No person shall connect or permit to be connected any private water service pipes, private water systems or private fire service mains of a size equal to or greater than 100mm in diameter to a water service connection or the waterworks until the private water service pipes, private water systems or private fire service mains have been disinfected in accordance with this section and a backflow prevention device has been installed by the owner to the satisfaction of the General Manager and CBO, in accordance with the standards and specifications.
- (2) Every person requesting the connection of private water service pipes, private water systems or private fire service mains of a size equal to or greater than 100mm in diameter to the waterworks shall, in addition to complying with all other requirements of this by-law and other applicable laws:
 - (a) Submit an application, on a form prescribed by the General Manager;
 - (b) Disinfect the private water service pipes, private water systems or private fire service mains under the supervision of a professional engineer, authorized by the Professional Engineers Ontario to perform such work, all at the expense of the owner and in accordance with the standards and specifications;
 - (c) Ensure that water sampling, transportation of the water sample to the laboratory and analytical testing of the water sample is conducted by an accredited laboratory which is licensed by the Ontario Ministry of the Environment for the provision of drinking-water testing services and also ensure that a complete water sample chain of custody is properly established from the taking and transportation of the water sample through to the report of the test results; and
 - (d) Prepare a report setting out the results of the testing and submit the test results to the General Manager as set out in §849-8 B.(3).
- (3) The General Manager will turn on the water supply to properties requiring testing under §849-8 B. only if an original copy of the water sampling laboratory test

results showing satisfactory disinfection and written verification of satisfactory disinfection by the owner's professional engineer, who is authorized by the Professional Engineers Ontario to perform such work, is received by the General Manager within 48 hours of the tests being completed. Such documentation shall be stamped, signed and sealed by the professional engineer.

- (4) All disinfection, laboratory testing and report preparation and verification shall be done at the expense of the owner.

C. Contamination prevention.

No person shall directly or indirectly connect, permit or cause to be connected, allow to remain connected to the waterworks or construct, install or maintain any piping, fixture, fitting, container, appliance, equipment or any other connection which may or could enable non-potable water, wastewater, or any other liquid, chemical or substance to enter the waterworks.

D. Cross connection and backflow prevention.

- (1) If the General Manager determines that a contravention of §849-8 C. may exist the General Manager may immediately carry out an inspection and may issue such order or orders to the owner, occupier or any other person as may be required to remedy the contravention.
- (2) If, in the opinion of the General Manager, there is a risk of possible contamination to a water service connection or the waterworks from a property, upon an order from the General Manager requiring the owner to do so, the owner shall install on the private water service pipe or the private water system at the source of the contamination or potential contamination identified by the General Manager, either a cross connection control device or a backflow prevention device approved by the General Manager for such purpose, or both. Such device or devices shall be in addition to any devices which may have been previously installed.
- (3) All cross connection control devices and backflow prevention devices shall be selected, installed, replaced, maintained and tested by the owner in accordance with the Ontario Building Code and CSA - B64 Series Standards.
- (4) Where, in the opinion of the General Manager, a risk of possible contamination of the waterworks may exist, the owner, upon an order from the General Manager, shall install devices to achieve premise isolation in addition to any other water system protective devices already installed on the property.
- (5) Unless otherwise required by §849-8 C or §849-8 D, every owner of new or existing industrial, commercial, institutional and multi-unit residential buildings, structures and properties and such other properties as may be designated by the General Manager or the CBO shall install premise isolation devices, in accordance with the standards and specifications and the respective dates as set out in Schedule G.

- (6) Owners shall, design, construct, install and maintain a premise isolation system for each water service connection so that the system is in compliance with all applicable law including the Ontario Building Code and CSA - B64 Series Standards.
- (7) Any owner, occupier or other person required to install a cross connection control device or backflow prevention device shall obtain a building permit for each cross connection control device and backflow prevention device to be installed.
- (8) Each cross connection control device and backflow prevention device shall be inspected and tested where installed, at the expense of the owner, by a person certified to do so in accordance with CSA - B64 Series Standards. The owner shall ensure that such person is registered with and in compliance with §849-8 F. Owners shall cause such inspections and testing to be performed:
 - (a) upon the installation of the cross connection or backflow prevention device;
 - (b) immediately, and no later than 72 hours after the cross connection or backflow prevention device is cleaned, repaired, replaced, serviced or overhauled;
 - (c) when the cross connection or backflow prevention device is relocated;
 - (d) annually;
 - (e) as required by the standards and specifications. and
 - (f) as may be required by the General Manager.
- (9) Every owner shall submit a report, to the General Manager on a form prescribed by the General Manager in respect of any tests performed on a cross connection control device or backflow prevention device within seven days of the performance of such test.
- (10) The owner shall cause to be displayed a legibly marked record card on the cross connection control device or backflow prevention device which indicates the address of the property, the location, date of installation, type, manufacturer, serial number and size of the device, the test date, the tester's initials, the tester's name, the name of the tester's employer and the tester's certificate number.
- (11) If an owner fails to have a cross connection control device or backflow prevention device inspected, tested and approved as required under all applicable law, including this by-law, the General Manager may order the owner to test the device within seven calendar days of the order being sent.
- (12) If a test of a cross connection control device or a backflow prevention device reveals that such device is not in proper working condition, or is not in conformance with the standards and specifications, the owner shall repair or replace the device within 48 hours of the performance of the test.

- (13) In addition to the premise isolation protection required by §849-8 D., the General Manager may require the owner to install additional zone or area protection devices in accordance with CSA - B64 Series Standards and the standards and specifications, all at the expense of the owner.
- (14) The General Manager may require the owner of an existing industrial, commercial, institutional or multi-unit residential building, structure or property or any other property that may have the potential for contamination or a hazardous cross connection, to submit a cross connection control and backflow prevention device survey, in the form prescribed by the General Manager. The survey shall be submitted to the General Manager within 30 days of the date of the request or such other date that may be specified by the General Manager in such request.
- (15) Owners required to submit a cross connection control and backflow prevention device survey to the General Manager shall submit updated surveys at a frequency of not less than once every five years from the date of the previous cross connection control and backflow prevention device survey.
- (16) All cross connection control and backflow prevention device surveys shall include detailed plans of the private water service pipe, private water system and private fire service mains and any devices or equipment associated with such items and an accompanying detailed report. Such survey, plans and report shall also detail all existing backflow prevention devices, cross connection control devices, cross connections or potential cross connections, recommended and planned corrective measures if any, and if required, a schedule of work to be completed by the owner. The survey and report shall be stamped, signed and sealed by a professional engineer, authorized by the Professional Engineers Ontario to perform such work.
- (17) The preparation and submission of the cross connection control and backflow prevention device surveys, and all related reports and documentation and work shall be carried out at the expense of the owner.
- (18) Any person testing cross connection control devices and backflow prevention devices shall ensure that the testing equipment is, at all times, maintained so that it performs within the manufacturer's tolerances and specifications. The equipment shall be tested, calibrated and certified, by the manufacturer or the manufacturer's representative authorized to do so, to meet the requirements of CSA - B64 Series Standards and shall be maintained in accordance with such standards. Such testing and calibration shall be done on an on-going basis but in no event shall it be carried out less often than once every twelve months. An original copy of the most current calibration test results shall be submitted by the owner to the General Manager or the CBO within 30 days of the date of testing of the owner's backflow prevention and cross connection control devices.
- (19) No person shall remove or cause or permit to be removed a cross connection control device or a backflow prevention device after it has been installed unless such removal is:

- (a) necessary to facilitate the repair of the device and such device is immediately replaced by a temporary device, until such time the original device is satisfactorily repaired or replaced and tested;
 - (b) for the purpose of immediately replacing the device with another device that meets or exceeds the requirements of this section; or
 - (c) necessary due to alterations to the private water system such that a cross connection control device or backflow prevention device is no longer required. In such a case, the owner shall submit to the General Manager a report stamped, signed and sealed by a professional engineer, authorized under the Professional Engineers Act, R.S.O. 1990, Ch. P. 28, as amended, and by the Professional Engineers Ontario, to perform such work attesting to the fact that the device or devices are no longer required. The device shall not be removed until the General Manager approves of the removal, which approval shall be made if the altered system no longer requires the device or devices in accordance with the standard and specifications and in accordance with CSA - B64 Series Standards. The cost of obtaining the necessary documentation under this subsection shall be the responsibility of the owner; or
 - (d) authorized by the General Manager.
- (20) All temporary cross connection control devices and backflow prevention devices shall meet or exceed the requirements of the standards and specifications, CSA - B64 Series Standards and this by-law.

E. Access to Devices.

- (1) Every cross connection control device and backflow prevention device shall be installed in a location that is readily accessible for operational, renewal, servicing, maintenance and inspection purposes. The location shall be accessible without the use of a portable ladder or the necessity of climbing over or removal of an obstacle.
- (2) The General Manager or the CBO may, at reasonable times and upon reasonable notice, during normal business hours, or in the case of an emergency, at any time, enter a property for the purpose of inspecting or testing a private water service pipe, private water system, a private fire service main, a cross connection control device or a backflow prevention device.
- (3) Owners shall remove any insulating or other material on or adjacent to the private water service pipe, private water system, private fire service main, cross connection control device or backflow prevention device so that full access to such pipe, system or devices are available for the testing and inspection purposes. All such removal and any subsequent replacement shall be performed by the owner at such owner's expense in accordance with all applicable law including the *Occupational Health and Safety Act*.

- (4) No person shall obstruct or permit or cause the obstruction of a private water service pipe, private water system, cross connection control device or backflow prevention device, either permanently or temporarily.

F. Requirements for backflow prevention device or cross connection control device testers

No owner of a property shall permit a person to test, install, replace, maintain, repair, relocate, clean or overhaul a backflow prevention device or cross connection control device unless such person meets the following requirements. Such person:

- (1) shall hold a valid and current Certificate of Achievement in Cross Connection Control endorsed by the Ontario Water Works Association; and
- (2) shall possess a current calibration certificate as required by §849-8 D. (18) for the test equipment to be employed;
- (3) shall possess a valid license form the Municipal Licensing Standards Office of the City as a plumber, master plumber or sprinkler fitter; and

§849--9 Construction water.

A. Application.

Where an owner makes an application for a water service connection for the supply of water to the owner's property for construction purposes, the owner shall submit an application, on the prescribed City form, to the General Manager for either a construction water permit or a metered construction water service connection as provided in §849-9. The application requirements of §849-4 B. shall apply to an application under §849-9.

B. Construction water permit.

- (1) A person who applies for a construction water permit shall, at the time of making the application, pay to the City all applicable fees and charges as set out in Schedule A and this section for such permit and water service connection and for the supply of water.
- (2) Pursuant to §849-4 D.(2), the person shall pay all costs for the installation of any temporary or permanent water service connection of any size and pursuant to §849-4 I.(2) all costs for the disconnection of any temporary water service connection.
- (3) The commencement date for the construction water permit shall be the date water is first supplied to the property. An applicant shall pay for a three month supply of water, calculated in accordance with §849-9 B.(4) at the time the application is submitted.
- (4) The monthly construction water charge shall be calculated by multiplying the size in square metres of the floor area, including common areas, of the buildings and structures to be constructed by the construction water rate in accordance with Schedule A.

- (5) If an applicant installs a properly functioning water meter, supplied by the City, prior to the end of the three month period, the owner may apply for a prorated refund of the fee payable in accordance with §849-9 B.(3) for the unused portion of the three month period calculated from the date of installation of the water meter to the date of the end of the three month period. The General Manager shall approve such refund application where the General Manager is satisfied that the water meter is functioning properly and all water supplied by the City to the property is registered on the water meter and §849-9 B.(6) shall apply thereafter for all water consumption registered on the water meter.
- (6) Once the water meter is installed and properly functioning the owner shall be charged the then current water rates for all water consumption registered on the water meter in place of the construction water rate set out in Schedule C.

C. Extension of permit.

- (1) The holder of a construction water permit who has not installed a properly working water meter, within the initial three month period set out in §849-9 B., may apply for an extension of the permit beyond such initial three month period. The extension period shall be for no less than three additional months. A payment for the supply of water for the full term of the extension applied for, calculated in accordance with §849-9 B.(4) and as set out in Schedule A, shall be made by the permit holder at the time the application for the extension is submitted.
- (2) If the permit holder installs a properly functioning water meter, supplied by the City, prior to the end of the extension period, the owner may apply for a prorated refund of the fee payable in accordance with §849-9 B.(3) for the unused portion of the extension period calculated from the date of installation of the water meter to the date of the end of the extension period. The General Manager shall approve such refund application where the General Manager is satisfied that the water meter is functioning properly and all water supplied by the City to the property is registered on the water meter. Section §849-9 B.(6) shall apply thereafter for all water consumption registered on the water meter.
- (3) A permit holder shall be entitled to apply for additional extension periods but must comply with the requirements of §849-9 C.(1) with respect to each application for an extension.
- (4) The General Manager shall be entitled, after giving notice, to shut off the supply of water to a property where a person issued a construction water permit under §849-9 A. has not installed a properly functioning meter and has not applied for and received an extension of the permit for the property at the end of the initial three month term or any approved extension term.

D. Metered construction water service connection.

- (1) If a person applies for a metered construction water service connection, either

temporary or permanent, water shall be metered from the date water is first supplied to the property. Water consumption registered on the water meter shall be billed in accordance with current City water rates. No monthly construction water rate shall apply provided the water meter remains installed, undamaged, sealed and functioning properly.

- (2) The applicant for a metered construction water service connection shall pay all costs for the installation of the temporary or permanent water service connection and all costs for the disconnection of any temporary water service connection in accordance with §849-4.
 - (3) The water meter shall be protected from damage and installed in a secure location which is not subject to freezing conditions.
- E. For properties, developments or projects where more than one water meter will ultimately be installed, a temporary water meter or water meters may be installed by the owner on the new watermain, new water service connection or new private service water pipe supplying such property, development or project and the owner shall pay for water consumed at the property in accordance with current water rates. Such water meter or meters shall be installed in a water meter chamber in accordance with the standards and specifications. Such temporary water meters shall be supplied by the City and installed and removed by the owner at the owner's sole expense.
- F. The owner shall pay to the City all costs for the installation and disconnection of any temporary or permanent water service connection for construction purposes in accordance with §849-4.
- G. (1) An approved backflow prevention device shall be installed on all temporary or permanent water service connections or private water service pipes. The owner shall pay all costs associated with the supply, installation, replacement or repair of the backflow prevention device.
- (2) If the backflow prevention device, required pursuant to §849-9 G.(1), becomes either missing or damaged, the General Manager shall be entitled to immediately shut-off the water supply to the property until such time as the backflow prevention device is either replaced or repaired.
- H. (1) If any loss or damage occurs to either the water meter or backflow prevention device, the owner shall immediately notify the General Manager.
- (2) If a water meter installed at a property pursuant to this section, is damaged, removed or missing, the owner shall pay construction water charges calculated in accordance with §849-9 B.(4) from the time the water meter was last read by the General Manager or the CFO until such time as the water meter is either repaired or replaced, in addition to an amount for a further three month supply of water calculated in accordance with §849-9 B.(3) and the provisions of §849-9 B.(5) shall apply. Payment for all such construction water shall be due immediately.

- (3) The General Manager, after having given notice, shall be entitled to shut off the supply of water to the property if the fees and charges for the construction water are not paid in full when due.
 - (4) The owner shall pay all costs associated with the replacement or repair of the water meter, or backflow prevention device.
 - (5) The General Manager shall not be obligated to turn the water on until such time as the construction water charges have been paid in full.
- I. The owner shall ensure that the installation of the temporary or permanent private water service pipe complies with the requirements of the Ontario Building Code and the standards and specifications.
- J. (1) If a fire hydrant is used for the supply of construction water, a temporary water meter, valve and backflow prevention device shall be installed on the hydrant.
- (2) The owner shall pay for all water supplied from the fire hydrant.
- (3) Water consumption registered on the temporary water meter shall be billed in accordance with current water rates. No monthly rate for construction water shall apply provided the water meter remains installed, undamaged and functioning properly.
- (4) (a) The General Manager may supply, install and seal the temporary water meter, valve and backflow prevention device at the owner's cost.
- (b) As an alternative to the General Manager supplying and installing the backflow prevention device, the General Manager may require the applicant to supply and install a backflow prevention device approved by the General Manager for such purpose. Prior to installation, the applicant shall demonstrate to the satisfaction of the General Manager, including providing original documentation, that such backflow prevention device is in accordance with the standards and specifications and is functioning properly.
- (5) The owner shall protect the temporary water meter, backflow prevention device and fire hydrant from freezing or any other damage.
- (6) If any loss or damage occurs to the temporary water meter, backflow prevention device, valve or fire hydrant the owner shall immediately notify the General Manager and the owner shall pay all costs associated with the replacement or repair of the temporary water meter, backflow prevention device or fire hydrant.

§849-10 Shut off and turn on by request.

- A. Water shut off.
- (1) An owner of a property shall notify the General Manager no less than 48 hours in advance of the date on which the owner requires the General Manager to

temporarily or permanently shut off the water supply to a property. The owner's notification shall be in writing if the owner requires the water supply to the property to be shut off permanently.

- (2) In the event that the property is occupied by tenants, the owner shall also provide the tenants and the City's Medical Officer of Health with notice of the water shut off at the same time as the owner notifies the General Manager under §849-10 A.(1). The owner shall also comply with Chapter 835 of the City Municipal Code.
- (3) The owner shall make an appointment with the General Manager so that the General Manager may attend at the property and shut off the water supply at the shut-off valve. The owner or the owner's representative shall attend at the property at the time of the appointment to ensure the General Manager has access to the property, the water meter and the shut off valve.
- (4) In the event an owner or the owner's representative fails to attend at the property and provide access to the General Manager at the appointment time set under §849-10 A.(3), the owner shall pay the missed appointment fee set out in Schedule C.
- (5) In the case of an emergency, the advance notice requirements in §849-10 A.(1) and (2) do not apply but the owner shall provide such notice as soon as possible in the circumstances.

B. Water turn on.

- (1) An owner of a property shall notify the General Manager at least 48 hours in advance of the date on which a supply of water to a property is to be turned on.
- (2) The owner shall make an appointment with the General Manager so that the General Manager may attend at the property and turn on the water supply. The owner or such owner's representative shall attend at the property at the time of the appointment to ensure the General Manager has access to the property, water meter and the shut off valve.
- (3) In the event an owner or the owner's representative fails to attend at the property and provide access to the General Manager at the appointment time set under §849-10 B.(2), the owner shall pay the missed appointment fee set out in Schedule C.

C. Except in the case of an emergency or maintenance being performed on the waterworks by the General Manager, the owner shall be present at the property when the water is either shut off or turned on by the General Manager.

D. With respect to any shut off or turn on of the water supply to a property, the owner shall pay to the City, in addition to any other charges or fees under this by-law, the amount set out in Schedule C for water shut off or turn on and all associated costs of the City for the disconnection of the water service connection from the waterworks if the water is to be shut off permanently.

- E. No person shall turn on or shut off the supply of water to a property at the shut-off valve without the prior authorization of the General Manager.

§849-11 Water shut off by City.

- A (1) Except in cases of emergency, no person shall turn on or shut off or permit the turn on or shut off of the water supply to a property at the shut-off valve without the authorization of the General Manager.
- (2) If the water supply to a property has been shut off by the General Manager or CFO, no person shall turn on or use the water supply or permit the water supply to be turned on or used without the prior written approval of the General Manager or CFO.
- B. The General Manager may shut off the supply of water to a property if:
- (1) the charges, fees or rates imposed by this by-law or other by-law providing for charges, fees or rates in relation to the treatment and supply of water or collection and treatment of wastewater are overdue; or
- (2) a fine imposed pursuant to this by-law remains unpaid after the time required for payment of such fine; or
- (3) the owner has failed to comply with an order of the General Manager made pursuant to this by-law within the time required for same.
- C. In the event that water has been shut off for any reason provided in this by-law or applicable laws, the City shall not be required to restore the supply of water to a property until all outstanding fines, charges, fees and rates in arrears in relation to the treatment and supply of water and collection and treatment of wastewater have been paid in full, or arrangements satisfactory to the CFO are made to pay all outstanding fines, charges, fee and rates in arrears, and all orders of the General Manager have been complied with.
- D. With respect to any shut off or turn on of the water supply to a property under §849-11 B., the owner shall pay to the City, in addition to any other charges or fees under this by-law, the amount set out in Schedule C for water shut off or turn on.
- E. Except in the case of an emergency, the General Manager shall, prior to the shut off of a water supply, provide reasonable notice of the shut-off to the owners and occupiers of the land or property by personal service or prepaid mail or by posting the notice on the land or property in a conspicuous place.
- F. If a leak or other fault is found on the private water service pipe or water service connection and is creating or is likely to create an emergency situation, including but not limited to, injury to persons or damage to adjacent properties including those of the City, then, without notice, the General Manager may shut off the supply of water to a property until such time as the leak or fault is repaired.
- G. In the event of an emergency or potential emergency, and where an owner or occupier

does not provide to the General Manager immediate free, clear and unobstructed-access to the property, premises, private water service pipe, private water system, water meter and any cross connection control or backflow prevention device in accordance with this by-law, the General Manager may immediately discontinue the supply of water to a property without further notice until such time as free, clear and unobstructed access to the property, premises, private water service pipe, private water system, water meter and any cross connection control or backflow prevention device is provided to the General Manager.

- H. In the event that the General Manager determines, in the General Manager's sole discretion, that an immediate threat of contamination to any part of the waterworks exists that may endanger public health or safety, the General Manager in the General Manager's sole discretion, may without prior notice, discontinue the water supply to any property, for the purposes or preventing or containing any such threat of contamination..
- I. The City shall not be liable for damages or loss caused by the stoppage, interruption or reduction of the amount of water supplied to the land or property of any person as a result of an emergency or a breakdown, repair or extension of the waterworks if, in the circumstances, reasonable notice of the General Manager's intention to stop, interrupt or reduce the supply of water is given.
- J. Chapter 835 of the City Municipal Code shall not apply to the shut-off of water by the City except to the shut-off of water to a rental unit, as defined by Chapter 835, for non-payment of a water account.

§849--12 Fire hydrants.

- A. Fire hydrant flow test.
 - (1) A person may submit an application on the prescribed City form to the General Manager for a permit to conduct a fire hydrant flow test to determine the characteristics of the local waterworks system. Such fire hydrant flow test shall be conducted by the applicant with the assistance of City personnel and on such other terms and conditions, including indemnification of the City, as may be required by the General Manager, from time to time and as may be identified on the permit.
 - (2) A person requesting a fire hydrant flow test shall pay in advance of the test the charge as set out in Schedule A in respect of the permission and assistance of the City with respect to the performance for the test and shall supply the General Manager with a copy of the flow test results promptly upon the completion of the test. Such flow test results shall include the date, time, location and duration of the fire hydrant flow test.
- B. Fire hydrant relocation.
 - (1) A person may submit an application on the prescribed City form to the General Manager for the relocation of a fire hydrant. If the General Manager approves the relocation in accordance with the standards and specifications, the applicant shall pay all costs incurred by the City, in relation to the relocation of the fire hydrant,

and shall pay the amount of the deposit as set out in Schedule B prior to the relocation of the fire hydrant by the City.

- (2) Upon completion of the fire hydrant relocation, including surface restoration, the General Manager shall determine the actual cost of the fire hydrant relocation and restoration. In the event that the actual cost of the work is greater than the amount of the deposit, the applicant shall immediately pay to the City the difference between the actual cost and the amount of the deposit. In the event that the actual cost of the work is less than the amount of the deposit, the General Manager shall refund to the applicant the difference between the actual cost and the deposit paid.
- C.
- (1) Every owner shall ensure that all fire hydrants located on their property or on City property adjacent to their property are clearly visible and unobstructed at all times in accordance with the *Ontario Fire Code Ontario Regulation 388/97*.
 - (2) No person shall cause or place, and no owner or occupier shall permit, any obstruction or encroachment, including snow, in front of or within 1.2m of any side of a fire hydrant.
 - (3) If an owner fails to provide the proper clearances on or around the fire hydrant within 24 hours of being notified to do so by the General Manager, the General Manager may remove any and all obstructions or encroachments and the owner shall pay to the City all costs associated with the removal of such obstructions or encroachments.

§849—13 Fire hydrant permits.

- A. A person may submit an application on the prescribed City form to the General Manager for a temporary supply of water from a fire hydrant. The applicant shall pay in advance the charge set out in Schedule A for a fire hydrant permit.
- B.
- (1) Once an application has been approved for a temporary supply of water from a fire hydrant, the General Manager may provide and install a backflow prevention device, valve and a temporary water meter on the fire hydrant if the total usage of water by the applicant, as estimated by the General Manager, will exceed fifty cubic metres.
 - (2) As an alternative to the General Manager supplying and installing the backflow prevention device or valve or both, the General Manager may require the applicant to supply and install a backflow prevention device or valve or both, approved by the General Manager for such purpose. Prior to installation by the applicant, the applicant shall demonstrate to the satisfaction of the General Manager, including providing original documentation, that such backflow prevention device is in accordance with the standards and specifications and is functioning properly.
 - (3) The applicant shall provide a security deposit as set out in Schedule B to ensure the safe return and proper working condition of any backflow prevention device, temporary water meter or valve supplied by the City and payment for water consumption registered on the water meter.

- (4) Once the water meter is installed and properly functioning, the owner shall be charged the then current water rates for all water consumption registered on the water meter.
- C. If the General Manager determines that the total usage of water from a fire hydrant will be equal to or less than fifty cubic metres, a temporary water meter is not required. The provisions of §849-13 B. with respect to a backflow protection device shall still apply.
- D. In the event the applicant uses more than fifty cubic metres of water, the applicant shall immediately notify the General Manager and the requirements set out in §849-13 B. shall apply with respect to a temporary water meter and the fees and charges for the supply of water.
- E. The security deposit shall be returned to the applicant once the temporary water meter, valve and backflow prevention device have been returned to the General Manager in a condition satisfactory to the General Manager. The cost of any necessary repair or replacement of the temporary water meter, valve or backflow prevention device shall be the responsibility of the applicant and may be deducted from the security deposit.
- F. No person shall use or permit the use of any fire hydrant for the supply of water without a fire hydrant permit issued by the General Manager in accordance with §849-13.
- G. Every person supplied with water from a fire hydrant shall pay for the cost of the water supplied. If the water supplied is metered, the person shall pay the current City water rates as set out in this by-law. If the hydrant is not metered, the person shall pay the charge as set out in Schedule A for the use of the water.

§849-14 Water conservation and water use restriction orders.

- A. Subject to §849-14 B., no person shall:
- (1) use, or cause or permit the use of, water for the purpose of watering, spraying, washing, cleaning or wetting any surface; or
 - (2) spray lawns, vegetation or other landscaping,
- where such use of water results in the excessive collecting, pooling, or flowing of water into any gutter, street, sidewalk, swale, water course or storm drain.
- (3) operate, or permit to be operated, on the person's property, any garden fountain or similar device that does not utilize a water recirculating system.
- B. Water used for firefighting purposes and for the training of firefighters, or otherwise used for purposes relating to the health or safety of persons or animals, or for the washing of motor vehicles, provided that the person washing the motor vehicle uses a hose equipped with a self closing nozzle, shall be exempt from §849-14 A .
- C. In the case where the General Manager determines that there is insufficient water in the

waterworks, or any part thereof, for the purpose of maintaining an appropriate volume of water or water pressure for the continued, proper and safe operation of the waterworks, or any part thereof, or insufficient water pressure for fire fighting purposes, or in the event of an upset in, or restriction to, or maintenance of, the waterworks or any part thereof, the General Manager may issue a water use restriction order. Once the situation that gave rise to the issuance of the water use restriction order has been resolved or is no longer in effect, the General Manager shall withdraw the water use restriction order. A water use restriction order may be imposed on all persons in the City or such person or persons as the General Manager considers appropriate to address the insufficiency of water.

- D. The General Manager shall give reasonable notice, in the circumstances, to the public of the issuance of a water use restriction order, the date on which it is to take effect and the conditions of the water use restriction order.
- E. A water use restriction order may contain any or all of the following conditions:
- (1) Prohibitions or limitations on watering of lawns, sports fields, grassy areas and golf courses, trees, shrubs, gardens, flowers or other vegetation, or any or all of the foregoing, for specified periods of time or within specified time limitations set out in the water use restriction order;
 - (2) Prohibitions or limitations on the filling of swimming pools, wading pools, hot tubs, garden ponds, fountains and other outdoor water features;
 - (3) Prohibitions or restrictions on the use of devices for outdoor water play;
 - (4) Prohibitions on the washing of motor vehicles;
 - (5) Prohibitions on the use of outdoor misting systems; and
 - (6) Prohibitions or limitations on the filling with water of tanker trucks, tanks, containers, or any other storage device that holds over 100 litres of water.
- F. Notwithstanding §849-14 E.(1), the General Manager may exempt from a water use restriction order, or place lesser restrictions on, the watering of tee-off areas and putting greens on golf courses, newly sodded or seeded lawns, newly planted trees, nurseries, turf farms or tree farms or any or all of the foregoing.
- G. No person shall use or cause or permit the use of water in contravention of a condition contained in a water use restriction order issued by the General Manager under this by-law.

§849--15 Contact information.

- A. For administering this or any other applicable by-law, the General Manager or CFO may require an owner of a property provided with a water service connection or equipped with a water meter or of a property where a water meter is to be installed to provide them with such owner's name and telephone number, the name and telephone number of any occupiers of the property and the name and telephone number of a person authorized by

the owner to provide the General Manager and CFO with access to the water meter or the location where a water meter is to be installed.

- B. Every owner shall provide the General Manager and the CFO with a current contact name and telephone number within 28 days of a change in ownership or occupancy of a property.

§849--16 Access.

- A. No person shall deny access to the General Manager, CBO or CFO to a property for any purpose as provided for in this by-law.
- B. (1) Where a person has denied access contrary to §849-16 A., in addition to any fine that may be imposed, such person shall pay the "Denial of Access" fee set out in Schedule C to compensate the City for its costs incurred in attempting to access the property and for each subsequent attempt or request to gain access by the City, until such time as the City gains access to the property.
- (2) Where the General Manager has provided notice of the General Manager's intent to exercise a power of entry in accordance with the *City of Toronto Act, 2006*, and has not been provided access by an owner after having been given reasonable notice of such intent to enter, in addition to any fine that may be imposed, such person shall pay to the City the "Denial of Access" fee set out in Schedule C to compensate the City for its costs incurred in attempting to access the property and for each subsequent attempt or request to gain access by the City, until such time as the City gains access to the property.
- C. The General Manager, CBO or CFO may, in accordance with the requirements of this by-law, enter upon a property to which water is supplied by the City:
- (1) To inspect, repair, alter or disconnect the service pipe or wire, machinery, equipment and other works used to supply water;
- (2) To read, inspect, install, repair, replace, maintain or alter a water meter;
- (3) To inspect a backflow prevention device or a cross connection control device; or
- (4) To shut off or reduce the supply of water.
- D. If an owner discontinues the use of water at a property or the General Manager or CFO lawfully decides to cease supplying water to land or property, the General Manager or CFO may enter on the land or Property:
- (1) To shut off the supply of water;
- (2) To remove any property of the City from the property; or
- (3) To determine whether water has been, or is being, unlawfully used.

- E. The powers of entry of the City and General Manager are subject to sections 375 to 379, inclusive, of the *City of Toronto Act, 2006*.

§849--17 Inspection.

- A. The General Manager may enter on a property at any reasonable time for the purpose of carrying out an inspection to determine compliance with this by-law or an order or direction of the City, General Manager, CBO or CFO issued in accordance with this by-law.
- B. For the purposes of any inspection, the General Manager may,
- (1) Require the production for inspection of documents or things relevant to the inspection;
 - (2) Inspect and remove documents or things relevant to the inspection for the purpose of making copies or extracts;
 - (3) Require information from any person concerning a matter related to the inspection; and
 - (4) Alone or in conjunction with a person possessing special or expert knowledge, make examinations or take tests, samples or photographs necessary for the purposes of the inspection.
- C. No person shall fail or refuse to comply with a request by the General Manager to produce for inspection any document or thing or information relevant to the inspection carried out by the General Manager in accordance with §849-17.
- D. Where a provincial court judge or justice of the peace has issued an order authorizing the City to enter on a property for the purpose of carrying out an inspection for the purposes and to exercise the powers set out in this section, no person, when requested to do so by the General Manager, shall neglect or refuse to produce or deliver any information or documents or things required by this by-law.
- E. Where an owner fails to maintain their private water system, including but not limited to, any plumbing, by-pass pipe, valves, cross connection control device, backflow prevention device, private water service pipe, private fire service main or water meter chamber in accordance with this by-law or any other applicable law, and such failure necessitates more than one attendance at the property by the City to carry out an inspection to determine compliance with this by-law or an order or direction of the City, General Manager, CBO or CFO issued in accordance with this by-law, the owner shall pay the inspection fee in accordance with Schedule C for each such additional attendance to the property.

§849--18 Obstruction.

- A. No person shall represent or cause to be represented that he or she is an owner or occupier of a property if he or she is not.

- B. No person shall prevent, hinder, obstruct or interfere, or attempt to prevent, hinder, obstruct or interfere, in any manner, the General Manager, CBO or CFO or their respective designate or any City personnel, agents or contractors in the exercise of an activity, power or performance of a duty under this by-law or the administration or enforcement of this by-law. The activities may include, without limitation, the following:
- (1) Entering in or upon, at any reasonable time without a warrant, any land, property or premises, except premises being used as a dwelling house in which case reasonable notice shall be provided in accordance with this by-law and the *City of Toronto Act, 2006*; or
 - (2) Making such tests or taking such samples as the General Manager, CBO or CFO deems necessary; or
 - (3) Inspecting or observing any plant, machinery, equipment, work, activity or documents; or
 - (4) Reading, repairing, maintaining, altering, disconnecting, removing, replacing, installing or sealing a water meter, remote readout unit, backflow prevention device or cross connection control device or any related item or any or all of the foregoing.

§849--19 General.

A. Protection from damage.

No person shall uncover, make any connection with, or opening into, break, alter, remove, damage, destroy, deface or tamper or cause or permit the breaking, removal, damaging, destroying, defacing or tampering with:

- (1) Any part of the waterworks; or any seal placed thereon, or attached thereto, or
- (2) Any permanent or temporary device installed in or on the waterworks for the purposes of flow measuring, sampling, testing or other purpose that the General Manager may deem necessary for the administration of this by-law or the operation or maintenance of the waterworks.

B Damage to the waterworks.

Any owner or person receiving water from the waterworks shall be responsible for ensuring that any action taken by such owner or person conforms at all times to the provisions of this by-law and such owner or person shall be liable for any damage or expense arising out of their failure to properly protect the waterworks or to properly protect water from contamination or any other damage including the cost of investigation, disinfection, repairing or replacing any part of any waterworks damaged or water contaminated thereby.

C. Unauthorized entry to waterworks.

Unless specifically authorized by the General Manager, no person shall enter into any chamber, structure, building or property associated with the waterworks.

§849--20 Offences.

- A. Any person who contravenes any provision of this by-law is guilty of an offence.
- B. A director or officer of a corporation who knowingly concurs in the contravention of a by-law by the corporation is guilty of an offence.

§849--21 Penalties.

- A. Offence

Every person who contravenes any provision of this by-law, and every director or officer of a corporation who concurs in such contravention by the corporation, is guilty of an offence.

- B. Fine - for contravention

- (1) Every person who contravenes a provision of this by-law and every director or officer of a corporation who concurs in such contravention by the corporation, upon conviction, shall be liable to a fine of not less than \$50 and not more than \$50,000 for a first offence and to a fine of not less than \$100 and not more than \$75,000 for any subsequent offence.
- (2) Notwithstanding §849-21 B.(1), every person who contravenes any of the sections set out in Schedule D and every director or officer of a corporation who concurs in such contravention by the corporation, upon conviction, shall be liable to a fine of not less than \$100 and not more than \$50,000 for a first offence and to a fine of not less than \$495 and not more than \$100,000 for any subsequent offence.
- (3) Notwithstanding §849-21 B.(1) and (2), every person who contravenes any of the sections set out in Schedule E and every director or officer of a corporation who concurs in such contravention by the corporation, upon conviction, shall be liable to a fine of not less than \$300 and not more than \$50,000 for a first offence and to a fine of not less than \$495 and not more than \$100,000 for any subsequent offence.
- (4) Notwithstanding §849-21 B.(1), (2) and (3), every person who contravenes any of the sections set out in Schedule F and every director or officer of a corporation who concurs in such contravention by the corporation, upon conviction, shall be liable to a fine of not less than \$300 and not more than \$100,000 for a first offence and to a fine of not less than \$495 and not more than \$100,000 for any subsequent offence.

- C. Fine - for contravention – corporation

Notwithstanding §849-21 B., if a corporation is convicted of an offence under this by-law, it shall be liable to a fine of not less than \$495 and not more than \$100,000 for a first offence and to a fine of not less than \$1,000 and not more than \$100,000 for any subsequent offence.

D. Fine - for contravention – Continuing Offence

- (1) Notwithstanding §849-21 B. and C., every person who contravenes a provision of this by-law and every director or officer of a corporation who concurs in such contravention by the corporation, upon conviction, shall be liable to a fine of not less than \$50 and not more than \$10,000 for each day or part day that such offence continues.
- (2) Notwithstanding §849-21 B., C. and D.(1), every person who contravenes any of the sections set out in Schedule D and every director or officer of a corporation who concurs in such contravention by the corporation, upon conviction, shall be liable to a fine of not less than \$100 and not more than \$10,000 for each day or part day that such offence continues.
- (3) Notwithstanding §849-21 B., C. and D.(1) and (2), every person who contravenes any of the sections set out in Schedule E and every director or officer of a corporation who concurs in such contravention by the corporation, upon conviction, shall be liable to a fine of not less than \$300 and not more than \$10,000 for each day or part day that such offence continues.
- (4) Notwithstanding §849-21 B., C. and D.(1), (2) and (3), every person who contravenes any of the sections set out in Schedule F and every director or officer of a corporation who concurs in such contravention by the corporation, upon conviction, shall be liable to a fine of not less than \$400 and not more than \$10,000 for each day or part day that such offence continues.

E. Fine - for contravention – Continuing Offence – corporation

Notwithstanding §849-21 B., C. and D., if a corporation is convicted of an offence under this by-law, it shall be liable to a fine of not less than \$495 and not more than \$10,000 for each day or part day that such offence continues.

F. Special Fine

In addition to any other fine under §849-21 B., C., D. and E., every person who gains an economic advantage or economic gain from contravening the by-law, shall be liable to a special fine in an amount equal to the fair market value of the economic advantage or economic gain so obtained from such contravention.

§849-22 General enforcement powers.

A. Restraining Order

Pursuant to the provisions of section 380 of the *City of Toronto Act, 2006*, if this by-law is contravened, in addition to any other remedy and to any penalty imposed by this by-law, any such contraventions may be restrained by application by the City.

B. Order to Discontinue Activity

- (1) Pursuant to the provisions of section 384 of the *City of Toronto Act, 2006*, the General Manager may order any person who has contravened this by-law or who has caused or permitted the contravention of this by-law or the owner or occupier of the property on which the contravention occurred to discontinue the contravening activity.
- (2) Any person who contravenes an order under §849-22 B.(1) is guilty of an offence.

C. Work Order

- (1) Pursuant to the provisions of section 385 of the *City of Toronto Act, 2006*, the General Manager may order any person who has contravened this by-law or who has caused or permitted the contravention of this by-law or the owner or occupier of the property on which the contravention occurred to do work to correct the contravention.
- (2) Any person who contravenes an order under §849-22 C.(1) is guilty of an offence.

D. Remedial Action

- (1) Pursuant to the provisions of section 386 of the *City of Toronto Act, 2006*, where any matter or thing is required to be done under this by-law, in default of it being done by the person directed or required to do so, such matter or thing shall be done at such person's expense and the City may recover the costs incurred for doing such matter or thing from the person directed or required to do it by adding the costs to the tax roll and collecting them in the same manner as municipal property taxes.
- (2) For the purposes of §849-22 D.(1), the General Manager may enter upon the subject property at any reasonable time.

§849-23 Document retention.

Any document required to be produced for inspection or approval or retained under this by-law by an owner of a property shall be retained for a period of seven years.

§849-24 Notice.

Where an order is issued by the General Manager, the person to whom the order is made shall be deemed to have received the order on the date it is posted in a conspicuous place at the subject property or delivered in person or three days after being posted by mail to the person at the last known address provided to the General Manager or, where no such address for such person has been provided to the General Manager, by mail to the address for such person identified on the tax rolls. The manner of delivery shall be in the discretion of the General Manager.

§849-25 Severability.

Notwithstanding that any section or sections of this by-law, or any part or parts thereof, may be found by any court of law to be invalid or illegal or beyond the power of the Council to enact, such section or sections or part or parts thereof shall be deemed to be severable, and all other sections of this by-law, or parts thereof, are separate and independent therefrom and enacted as such.

§849-26 Repeal.

Complete list of provisions to be repealed to be listed here.

§849-27 Effective date.

This by-law shall come into force on 2007.

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Water Supply By-law - Index of Fee Schedules (Referenced to : Final Draft - Rev L Rev-2) 18 February, 2007

Schedule A - Charges generally paid in advance

Schedule B - Various Deposits in advance

Schedule C - Charges billed to the Water Account

Clause	Schedule	Service	Comments	Fee
849-4 D (1)	A	19mm - Residential water service installation - Flat Rate Fee	Includes Water Meter - 16mm x 19mm	2,175. ⁰⁰
849-4 D (1)	A	25mm - Residential water service installation - Flat Rate Fee	Includes Water Meter - 19mm x 25mm	2,450. ⁰⁰
849-4 D (2)	B	Deposit for cost of Installation of Non-Residential water service of any size or any Residential water service > 25mm Ø	Cost includes Water Meter, strainer & remote device Deposit based on case by case estimate	Cost to City
849-4 I (1)	A	Residential water service ≤ 25mm Ø disconnection	Flat Rate Fee	300. ⁰⁰
849-4 I (2)	B	Deposit for Disconnection of any Non-Residential water service of any size or any Residential water service > 25mm Ø	Cost to City Deposit based on case by case estimate	Cost to City
849-4 J (1)	B	Deposit for inspection by excavation	Subject to adjustment after inspection	2,000. ⁰⁰
849-4 M (3)	C	Fee for inspection due to a leak, defect or malfunction in, of or on the private water service pipe or private fire service main	Fee for each inspection visit	60. ⁰⁰
849-4 M (4)	C	Receiving unmetered water due to leak or defect on private side Cost of lost water set at \$50. ⁰⁰ / day	Flat Rate Fee	\$50. ⁰⁰ / day
849-5 A (5)	C	Water received at a metered property, or a property that should be metered, without being metered.	Flat Rate Fee - This includes failure or refusal to install a water meter & illegal connections	\$100. ⁰⁰ / day
849-5 C (1)	A	Cost of the water meter, strainer, connection fittings, flanges, gaskets & hardware	Price includes : Meter; Strainer; Remote, Couplings; Wire; Bolts, Flanges & Gaskets	Cost to City
849-5 C (3)	A	Cost of the water meter, strainer, connection fittings, flanges, gaskets & hardware	Price includes : Meter; Strainer; Remote, Couplings; Wire; Bolts, Flanges & Gaskets	Cost to City
849-5 E (4)	C	Fee for extra attendance at property due to owner's failure or refusal to install water meter	Fee for each extra attendance at the property until meter properly installed & inspected & sealed	60. ⁰⁰
849-5 H (7)	C	Failure or Refusal to maintain by-pass piping &/or valves or comply with an order : Cost to City to install or repair by-pass &/or valves + Inspection	Inspection fee for each visit to property + Cost of work by City	Inspection 60. ⁰⁰ + Cost of work performed by City
849-5 J (6)	A	Failure to protect remote readout device & wire	Cost of Remote Unit & Wire if required	Cost of Unit
849-5 J (6)	C	Failure to protect remote readout device & wire	Re-Installation by City	60. ⁰⁰
849-5 N (1)	B	Deposit for Cost of Meter &/or Backflow Preventer on temporary water service other than from a hydrant - Refundable if meter & backflow preventer are returned undamaged	The General Manager may require the owner to supply an approved backflow preventer (Meter cost as per Schedule A)	Cost of unit(s)
Clause	Schedule	Service	Comments	Fee

849-5 O (2)	A	Cost of replacement water meter for lost or damaged meter	Meter Cost to City	Meter Cost
849-5 O (2)	C	Cost to remove & replace damaged meter	If the City replaces the meter the cost would be typically \$60. ⁰⁰ otherwise owner to pay cost of City's contractor	60. ⁰⁰ or Cost to City
849-5 O (5)	C	Cost to remove & replace damaged meter ≤ 50mm Ø	If the City replaces the meter the cost would be typically \$60. ⁰⁰ otherwise owner to pay cost of City's contractor	60. ⁰⁰ or Cost to City
849-5 O (5)	C	Cost to remove & replace damaged meter > 50mm Ø	Cost to City for City Including Contractor	Cost to City
849-5 O (5)	C	Inspection fee for each visit to the property		60. ⁰⁰
849-5 Q (2)	C	Annual Seasonal Meter Activation Charge	Includes removal & replacement of water meter & Includes 1 turn off & 1 turn on	120. ⁰⁰
849-5 Q (3)	C	Annual Seasonal Meter Activation Charge	Includes removal & replacement of water meter & Includes 1 turn off & 1 turn on	120. ⁰⁰
849-6 A (2)	C	Fee for extra attendance at property due to owner's failure or refusal to permit inspection or sealing of water meter	Fee for each extra attendance at the property until water meter is inspected & sealed	60. ⁰⁰
849-6 C (4)	C	Fee to replace broken seal on Water Meter Fee to put seal & install chain & lock on by-pass valve	Fee for attendance and replacement of broken seal : Fee for attendance and installation of chain on by-pass :	100. ⁰⁰ 150. ⁰⁰
849-7 A (8)	C	Inspection Fee for each attendance at property due to owner's failure to carry out necessary repairs or comply with an Order	For each inspection	60. ⁰⁰
849-7 A (8)	C	Cost to City to perform work due to owner's failure or refusal to carry out necessary repairs or replacements	Cost of work & materials supplied by City or City's contractor	Cost to City
849-7 B (5)	C	Fee for extra attendance at property due to owner's failure or refusal to provide access to water meter chamber	2 person crew required for meter chamber	100. ⁰⁰
849-7 C (2)	C	Water Meter Accuracy Test up to 50mm Ø meter.	Includes Meter Exchange & Test	100. ⁰⁰
849-7 C (2)	C	Water Meter Accuracy Test up to 50mm Ø meter in chamber	Includes Meter Exchange & Test Minimum 2 person crew required	175. ⁰⁰
849-7 C (2)	C	Meter > 50mm Ø - No Chamber -Test Only	No Flow Monitoring Included	175. ⁰⁰
849-7 C (2)	C	Meter > 50mm Ø - Meter in Chamber - Test Only	No Flow Monitoring Included Minimum 2 person crew required	330. ⁰⁰
849-7 C (6)	C	Additional cost to City for Dispute Test over & above costs contemplated in 849-7 C (2) & (8)	Only charged to owner if meter is found to not over register when tested	Cost to City
849-7 C (9)	B	"Labour" Deposit for Cost to monitor flow rates for Meter > 50mm Ø - Accuracy Test - 1 month Duration	Includes report & 2 downloads from monitor	120. ⁰⁰
Clause	Schedule	Service	Comments	Fee
849-7 C (9)	B	"Equipment" Deposit for Cost to monitor flow rates for Meter > 50mm Ø - Accuracy Test - 1 month Duration	Deposit is for cost of portable Flow Monitoring Equipment	600. ⁰⁰

849-7 D (11)	C	Inspection Fee per each attendance necessitated by owner's failure to relocate water meter &/or associated piping	Fee for extra attendance at the property until owner relocates water meter &/or associated piping	60. ⁰⁰
849-7 F (4)	C	Fee for Water Turn-Off for demolition but does not include disconnection of old water service from watermain	Includes small meter pickup	60. ⁰⁰
849-7 F (5)	C	Missed Appointment Fee per each extra attendance at property	Owners failure to keep appointment	60. ⁰⁰
849-7 F (6)	C	Failure to provide access for meter removal prior to demolition = Cost of Meter + Remote Readout (ERT) as per Schedule A + Estimated water consumption	Water Revenue to estimate consumption for final water bill & all charges including lost meter & remote to be billed to owner	Meter Cost + Readout Device Cost + Consumption
849-9 B (4)	A	Construction Water Rate of \$1.00 /m ² of floor area per month with a Deposit for a minimum 3 month period	Prorated refund if owner installs temporary meter or disconnects prior to end of any 3 month period	\$1. ⁰⁰ / m ² of floor area per month
849-9 B (6)	C	Metered construction water charged at same water rate as any other metered account	Water Revenue needs to set up account	Paid per m ³
849-9 C (1)	A	Extension of Construction Water Rate of \$1.00 /m ² of floor area per month with a Deposit for a minimum 3 month period	Prorated refund if owner installs temporary meter or disconnects prior to end of any 3 month period	\$1. ⁰⁰ / m ² of floor area per month
849-10 A (4)	C	Missed appointment fee per each attendance at property	Owners failure to keep appointment	70. ⁰⁰
849-10 B (3)	C	Missed appointment fee per each attendance at property	Owners failure to keep appointment	70. ⁰⁰
849-10 D	C	Fee for Water Turn-Off or Turn-On	Each time	70. ⁰⁰
849-11 D	C	Fee for Water Turn-Off or Turn-On	Each time	70. ⁰⁰
849-12 A (2)	A	Fee for cost of assisting with Fire Hydrant Flow Test	Requestor also to provide results to City	140. ⁰⁰
849-12 B (1)	B	Deposit for cost of Fire Hydrant Relocation - Includes estimate of all Labour, Equipment & Material including Restoration	Owner to pay all costs incurred by City Refund or additional invoice may be required	10,000. ⁰⁰
849-13 A	A	Fee for Fire Hydrant Permit		150. ⁰⁰
849-13 B (3)	B	Deposit for Cost of Hydrant Meter, Valve &/or Backflow Preventer on fire hydrant - Refundable if meter, valve & backflow preventer are returned undamaged	The General Manager may require the owner to supply an approved backflow preventer &/or valve (Meter cost as per Schedule A)	Cost of unit(s)
849-13 B (3)	B	Deposit for metered hydrant water - Metered water consumption paid at same water rate as other metered accounts	\$500. ⁰⁰ Deposit against volume of water to be consumed unless owner establishes an account with Water Rev.	500. ⁰⁰
849-13 G	A	Fee for use of less than or equal to 50 cubic meters of water	Unmetered water from fire hydrant	100. ⁰⁰
849-16 B (1)	C	Denial of Access Fee after attempt to access property	per each attendance at property to gain access	60. ⁰⁰
849-16 B (2)	C	Denial of Access Fee after notice & attempt to access property	per each attendance at property to gain access	60. ⁰⁰
849-17 E	C	Fee for extra attendance at property due to owner's failure to maintain private water system or comply with an order	Fee for each extra attendance at the property until owner maintains private water system &/or complies with order	60. ⁰⁰

Clause	Schedule	1 st Offence Fine Amounts	2 nd Offence Fine Amounts	Clause	Continuing Offence Fine Amounts per Day	Committed By :
§849--21 B. (1)	General	\$ 50 - 50,000	\$ 100 - 75,000	§849--21 D. (1)	\$ 50 - 10,000	Every person or director or officer of a corporation
§849--21 B. (2)	D	\$ 100 - 50,000	\$ 495 - 100,000	§849--21 D. (2)	\$ 100 - 10,000	Every person or director or officer of a corporation
§849--21 B. (3)	E	\$ 300 - 50,000	\$ 495 - 100,000	§849--21 D. (3)	\$ 300 - 10,000	Every person or director or officer of a corporation
§849--21 B. (4)	F	\$ 300 - 100,000	\$ 495 - 100,000	§849--21 D. (4)	\$ 400 - 10,000	Every person or director or officer of a corporation
§849--21 C.	Corp.	\$ 495 - 100,000	\$ 1,000 - 100,000	§849--21 E.	\$ 495 - 10,000	Any offence committed by a corporation
Clause	Schedule	Fine Amount	Type	Committed By :		
§849--21 F.	Special	Amount equal to fair market value of economic advantage or gain	Single Offence	Every Person who gains an economic advantage or gain from contravention of the By-law		

DRAFT - Water Supply By-law : Orders – Fines – Tickets

O = Order, F = Fine, T = Ticket

February 18, 2007

Final DRAFT Sch = Schedule; \$ Amount = Range of Fine for 1st Offence; \$ Amt = Set Amount for Ticket

Referenced to Final Draft Rev L Rev-3

Clause	Sch	O	F	\$ Amount	T	\$ Amt	Details	Comment
§849---3. A	Gen	✓	✓	50 – 50,000	✓	50	Improper use or disposal of water	e.g. – Resale of water
§849---3. B	Gen	✓	✓	50 – 50,000	✓	50	Receipt of water without payment for water	
§849---4. A (1) (a)	E	✓	✓	300 – 50,000	✓	300	Erection of new building or structure w/o connection to the waterworks	
§849---4. A (1) (b)	E	✓	✓	300 – 50,000	✓	300	Same as §849---4. A. (1) (a)	
§849---4. A (2) (a)	E	✓	✓	300 – 50,000	✓	300	Unauthorized connection or change to the connection to the waterworks	
§849---4. A (2) (b)	E	✓	✓	300 – 50,000	✓	300	Same as §849---4. A (2) (a)	
§849---4. B (2)	Gen	✓	✓	50 – 50,000	✓	50	False &/or inaccurate information on Application Form or submitted documentation & plans	
§849---4. B (3)	Gen	✓	✓	50 – 50,000	✓	50	False &/or inaccurate information on Application Form or submitted documentation & plans	
§849---4. C (2) (a)	E	✗	✓	300 – 50,000	✓	300	Improper / Illegal installation of water service (W/S) connection	City re-excavates to inspect at owners expense
§849---4. C (2) (b)	E	✗	✓	300 – 50,000	✓	300	Improper / Illegal installation of water service (W/S) connection	City excavates & disconnects at the owners expense
§849---4. D (1) (b)	Gen	✓	✓	50 – 50,000	✓	50	Failure to comply with conditions of Water Service Application	
§849---4. D (2) (a)	Gen	✓	✓	50 – 50,000	✓	50	Failure to comply with conditions of Water Service Application	
§849---4. E	E	✓	✓	300 – 50,000	✓	300	Unauthorized installation of W/S connection within road allowance	
§849---4. F (1) (a)	E	✓	✓	300 – 50,000	✓	300	Installation of a W/S connection that services more than 1 property	
§849---4. F (1) (b)	E	✓	✓	300 – 50,000	✓	300	Installation of a W/S connection that services more than 1 property	
§849---4. F (2)	E	✓	✓	300 – 50,000	✓	300	Failure to install separate W/S connection	
§849---4. I (1) (b)	Gen	✓	✓	50 – 50,000	✓	50	Failure to comply with conditions of Water Service Disconnection	
§849---4. I (2) (a)	Gen	✓	✓	50 – 50,000	✓	50	Failure to comply with conditions of Water Service Disconnection	
§849---4. K (1)	D	✓	✓	100 – 50,000	✓	100	Failure to apply for acceptance of a temporary W/S Connection as a permanent W/S Connection if used as a permanent W/S Connection	
§849---4. L (1)	Gen	✓	✓	50 – 50,000	✓	50	Failure to install private water services or fire mains in accordance with By-law requirements	Includes all applicable law, Ont. Bldg Code, Standards & Specs & other requirements required by CBO or GM
§849---4. L (2) (a)	D	✓	✓	100 – 50,000	✓	100	Installation of private water system prior to installation of City W/M	
§849---4. L (2) (b)	D	✓	✓	100 – 50,000	✓	100	Installation of private water system prior to satisfactory installation of Water Service Connection	
§849---4. L (4)	D	✓	✓	100 – 50,000	✓	100	Private W/S pipe or fire main not in accordance with By-law	

DRAFT - Water Supply By-law : Orders – Fines – Tickets **O = Order, F = Fine, T = Ticket** February 18, 2007

Clause	Sch	O	F	\$ Amount	T	\$ Amt	Details	Comment
§849---4. M (1)	E	✓	✓	300 – 50,000	✓	300	Failure to maintain private W/S pipe or fire service pipe	
§849---4. M (2)	E	✓	✓	300 – 50,000	✓	300	Failure to repair private W/S pipe or fire service pipe	
§849---4. N (1)	Gen	✓	✓	50 – 50,000	✓	50	Failure to protect private water system, pipe etc from freezing	
§849---5. A (1)	E	✓	✓	300 – 50,000	✓	300	Unauthorized use of unmetered water	
§849---5. A (2)	E	✓	✓	300 – 50,000	✓	300	Failure to install water meter in property	
§849---5. A (4)(a)	E	✓	✓	300 – 50,000	✓	300	Failure to install water meter in property with pool, fountain, equip, etc	
§849---5. A (4)(b)	E	✓	✓	300 – 50,000	✓	300	Failure to install water meter in ICI property or apt bldg, etc.	
§849---5. A (4)(c)	E	✓	✓	300 – 50,000	✓	300	Failure to install water meter when new W/S is installed	
§849---5. A (6)	E	✓	✓	300 – 50,000	✓	300	Failure to allow meter installation pursuant universal metering program	
§849---5. A (7)	E	✓	✓	300 – 50,000	✓	300	Failure to allow meter installation pursuant to a water meter installation or replacement program or project or automated meter reading program	
§849---5. B (1)	D	✓	✓	100 – 50,000	✓	100	Failure to install water meter in property in accordance with By-law	
§849---5. B (2)	D	✓	✓	100 – 50,000	✓	100	Failure to install water meter in property in accordance with Specs	
§849---5. B (3)	D	✓	✓	100 – 50,000	✓	100	Failure to install water meter in property within 7 days of receipt	
§849---5. B (4)	D	✓	✓	100 – 50,000	✓	100	Failure to install water meter, etc prior to occupancy	
§849---5. B (6)	D	✓	✓	100 – 50,000	✓	100	Unauthorized turning on water supply to property	
§849---5. B (8)	D	✓	✓	100 – 50,000	✓	100	Failure to allow City to install water meter and other equipment pursuant to meter installation or replacement in accordance with a universal metering program or automated meter reading program	See §849---4. D (3)
§849---5. D (1)	D	✓	✓	100 – 50,000	✓	100	Failure to provide accurate information on application for meter change	
§849---5. D (2) (a)	D	✓	✓	100 – 50,000	✓	100	Failure to provide accurate information on application for meter change	
§849---5. D (4)	D	✓	✓	100 – 50,000	✓	100	Failure to provide clear & unobstructed access for flow monitoring	
§849---5. D (5)	D	✓	✓	100 – 50,000	✓	100	Failure to comply with order to change size of meter & piping	
§849---5. D (8)	D	✓	✓	100 – 50,000	✓	100	Failure to provide clear & unobstructed access for flow monitoring	
§849---5. E (1)	D	✓	✓	100 – 50,000	✓	100	Failure to notify City of meter installation within 7 days of receipt of meter from City	
§849---5. E (2)	E	✓	✓	300 – 50,000	✓	300	Failure to install meter within 7 days of receipt of meter from City	
§849---5. E (3)	D	✓	✓	100 – 50,000	✓	100	Failure to allow City to install water meter and other equipment pursuant to meter installation or replacement in accordance with a universal metering program or automated meter reading program	
§849---5. F	D	✓	✓	100 – 50,000	✓	100	Failure to notify GM that property is ready for a meter to be installed	
§849---5. G	D	✓	✓	100 – 50,000	✓	100	Failure to provide adequate provision for installation of meter	
§849---5. H (1)	D	✓	✓	100 – 50,000	✓	100	Failure to install by-pass pipe & valves in accordance with specs	
§849---5. H (2)	D	✓	✓	100 – 50,000	✓	100	Failure to install by-pass pipe & valves to allow uninterrupted water	

DRAFT - Water Supply By-law : Orders – Fines – Tickets

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Clause	Sch	O	F	\$ Amount	T	\$ Amt	Details	Comment
§849---5. H (4)	E	✓	✓	300 – 50,000	✓	300	Unauthorized breaking of seal on by-pass valve	
§849---5. H (5) (a)	D	✓	✓	100 – 50,000	✓	100	Failure to install or replace substandard by-pass pipe or valves	
§849---5. H (5) (b)	D	✓	✓	100 – 50,000	✓	100	Failure to remove defective pipe or valves & install or replace new pipe or valves	
§849---5. H (6)	D	✓	✓	100 – 50,000	✓	100	Failure to comply with order to issued under §849---5. H (5)	
§849---5. I (1)	D	✓	✓	100 – 50,000	✓	100	Failure to construct or install required meter chamber	
§849---5. I (2)	D	✓	✓	100 – 50,000	✓	100	Failure to construct or install required meter chamber in approved location	
§849---5. I (3)	D	✓	✓	100 – 50,000	✓	100	Obstruction of meter chamber or Failure to remove obstruction	
§849---5. I (4)	D	✓	✓	100 – 50,000	✓	100	Placing shrubs, trees or landscaping with 1.5 m of meter chamber	
§849---5. I (5)	D	✓	✓	100 – 50,000	✓	100	Failure to keep landscaping cut back & clear of meter chamber	
§849---5. I (6)(a)	D	✓	✓	100 – 50,000	✓	100	Failure to make provision for remote readout unit in chamber cover	
§849---5. I (6) (b)(ii)	D	✓	✓	100 – 50,000	✓	100	Failure to install mounting post & plate for remote readout unit	
§849---5. J (2)	D	✓	✓	100 – 50,000	✓	100	Failure to supply & install conduit for RRU wire	
§849---5. J (3)	D	✓	✓	100 – 50,000	✓	100	Failure to protect RRU or RRU wire	
§849---5. J (4)	D	✓	✓	100 – 50,000	✓	100	Failure to install or replace RRU wire	
§849---5. J (5)	D	✓	✓	100 – 50,000	✓	100	Failure to replace damaged RRU wire or conduit	
§849---5. J (7)	D	✓	✓	100 – 50,000	✓	100	Failure to provide access to inspect or install & connect RRU	
§849---5. J (8)	D	✓	✓	100 – 50,000	✓	100	Failure to make space available or install protective device for RRU	
§849---5. J (9)	D	✓	✓	100 – 50,000	✓	100	Failure to make space available or install conduit for RRU wire	
§849---5. J (10)	D	✓	✓	100 – 50,000	✓	100	Failure to provide unobstructed access to RRU	
§849---5. J (13)	D	✓	✓	100 – 50,000	✓	100	Failure to relocate RRU, wire & conduit in accordance with City's standards & specifications	
§849---5. K (1)	Gen	✓	✓	50 – 50,000	✓	50	Failure to install dedicated telephone line or electrical outlet for meter	
§849---5. K (2)	Gen	✓	✓	50 – 50,000	✓	50	Failure to install telephone line or electrical outlet as per specifications	
§849---5. K (3)	Gen	✓	✓	50 – 50,000	✓	50	Failure to maintain telephone line or electrical outlet as required	
§849---5. L (2)	D	✓	✓	100 – 50,000	✓	100	Failure to install additional meters as required by CFO	
§849---5. M	D	✓	✓	100 – 50,000	✓	100	Failure to install detector check valve or meter on private fire service	
§849---5. N (5)	F	✓	✓	300 - 100,000	✓	300	Failure to install backflow prevention device	Maintenance covered in Sec. §849---8. D (3)
§849---5. N (6)	F	✓	✓	300 - 100,000	✓	300	Failure to install backflow prevention device	Maintenance covered in Sec. §849---8. D (3)
§849---5. O (4)	D	✓	✓	100 – 50,000	✓	100	Failure to install or replace water meter within 7 days	
§849---5. O (5)	D	✓	✓	100 – 50,000	✓	100	Failure to comply with order to install or replace water meter	
§849---5. P	D	✓	✓	100 – 50,000	✓	100	Installation of spacer piece in place of a water meter	
§849---5. Q (3)	D	✓	✓	100 – 50,000	✓	100	Failure to install seasonal water meter	

Clause	Sch	O	F	\$ Amount	T	\$ Amt	Details	Comment
§849---5. Q (4)	D	✓	✓	100 – 50,000	✓	100	Failure to maintain seasonal water meter chamber	
§849---5. R (1)	D	✓	✓	100 – 50,000	✓	100	Installation of private water meter upstream of City water meter	
§849---6. B (1)	D	✓	✓	100 – 50,000	✓	100	Failure to provide free, clear unobstructed access to meter	
§849---6. B (2)	D	✓	✓	100 – 50,000	✓	100	Failure to provide to CFO free, clear unobstructed access to property	
§849---6. B (3)	D	✓	✓	100 – 50,000	✓	100	Failure to remove insulation & provide unobstructed access to meter	
§849---6. C (1)	E	✓	✓	300 – 50,000	✓	300	Interference or tampering with water meter or seal	
§849---6. C (2)	E	✓	✓	300 – 50,000	✓	300	Interference or tampering with water meter or seal	
§849---6. C (3)	D	✓	✓	100 – 50,000	✓	100	Illegal connection to private water service pipe upstream of meter	
§849---7. A (1)	Gen	✓	✓	50 – 50,000	✓	50	Failure to maintain valves around water meter	
§849---7. A (2)	Gen	✓	✓	50 – 50,000	✓	50	Failure to install proper valving around water meter	
§849---7. A (3)	Gen	✓	✓	50 – 50,000	✓	50	Failure to maintain piping around water meter	
§849---7. A (4)	D	✓	✓	100 – 50,000	✓	100	Failure to provide access to water meter, piping or system	
§849---7. A (5)	D	✓	✓	100 – 50,000	✓	100	Failure to repair or replace water valves, piping or system	
§849---7. A (6)	D	✓	✓	100 – 50,000	✓	100	Failure to comply with order pursuant to §849-7 A. (5)	
§849---7. B (1)	D	✓	✓	100 – 50,000	✓	100	Failure to maintain or replace or clean water meter chamber	
§849---7. B (2)	D	✓	✓	100 – 50,000	✓	100	Failure to remove & dispose of materials from water meter chamber	
§849---7. B (3)	D	✓	✓	100 – 50,000	✓	100	Failure to provide access into water meter chamber	
§849---7. B (4)	D	✓	✓	100 – 50,000	✓	100	Failure to notify GM or CBO of date & time for access to chamber	
§849---7. D (1)	D	✓	✓	100 – 50,000	✓	100	Unauthorized relocation of a water meter	
§849---7. D (4)	Gen	✓	✓	50 – 50,000	✓	50	Failure to properly relocate RRU wire for relocated meter	Similar to §849---5. J (2)
§849---7. D (5)	D	✓	✓	100 – 50,000	✓	100	Failure to relocate existing water meter	
§849---7. D (6)	Gen	✓	✓	50 – 50,000	✓	50	Failure to properly bury pipe upstream of relocated water meter	
§849---7. D (7)	Gen	✓	✓	50 – 50,000	✓	50	Failure to properly bury pipe upstream of relocated water meter	
§849---7. D (8)	Gen	✓	✓	50 – 50,000	✓	50	Failure to allow proper inspection of pipe for relocated meter	
§849---7. D (9)	Gen	✓	✓	50 – 50,000	✓	50	Failure to remove concrete backfill over relocated pipe	
§849---7. D (10)	Gen	✓	✓	50 – 50,000	✓	50	Failure to comply with specs & code for meter relocation work	
§849---7. E (1)	Gen	✓	✓	50 – 50,000	✓	50	Failure to notify City of water meter leak	
§849---7. F (1)	E	✗	✓	300 – 50,000	✓	300	Demolition of a building prior to City reading or recovering meter	
§849---7. F (2)	E	✓	✓	300 – 50,000	✓	300	Failure to notify City in writing prior to building demolition	
§849-8. A (1)	E	✓	✓	300 – 50,000	✓	300	Private water system does not comply with OBC, this by-law, and or the standards & Specifications	
§849-8. A (2)	E	✓	✓	300 – 50,000	✓	300	Failing to obtain building permit prior to commencement of work on a Private water system	

DRAFT - Water Supply By-law : Orders – Fines – Tickets **O = Order, F = Fine, T = Ticket** February 18, 2007

Clause	Sch	O	F	\$ Amount	T	\$ Amt	Details	Comment
§849-8. A (3)	E	✓	✓	300 – 50,000	✓	300	Failing to obtain building permit prior to commencement of work on a Private water system	
§849-8. A (4)	E	✓	✓	300 – 50,000	✓	300	Failing to obtain building permit prior to commencement of work on a Private water system	
§849-8. B (1)	F	✓	✓	300 - 100,000	✓	300	Failure to disinfect private water pipes, system, and fire services ≥ 100mm & to provide a premise isolation device prior to connection to a water service connection or waterworks.	
§849-8. B (2) (b)	F	✓	✓	300 - 100,000	✓	300	Failure to disinfect private water pipes, system, and fire services ≥ 100mm under the supervision of a professional engineer in accordance with the standards & specifications.	
§849-8. B (2) (c)	F	✓	✓	300 - 100,000	✓	300	Failure to ensure that water sampling, transportation of the water sample to the laboratory & analytical testing of the water sample is conducted by an accredited laboratory.	
§849-8. B (2) (d)	F	✓	✓	300 - 100,000	✓	300	Failure to submit a report setting out the results of the testing to the General Manager as set out in §849-8B (3).	
§849-8. C	F	✓	✓	300 - 100,000	✓	300	Connecting or permitting to connect directly or indirectly or cause to be connected, allow to remain connected to the waterworks or construct, install or maintain any piping, fixture, fitting, container, appliance, equipment or any other connection which may or could enable non-potable water, wastewater, or any other liquid, chemical or substance to enter the waterworks.	
§849-8. D (2)	F	✓	✓	300 - 100,000	✓	300	Failure to install on the private water service pipe or the private water system at the source of the contamination or potential contamination identified by the General Manager, either a cross connection control device or a backflow prevention device, or both, approved by the General Manager.	
§849-8. D (3)	F	✓	✓	300 - 100,000	✓	300	Installing cross connection control devices and backflow prevention devices non-compliant with the Ontario Building Code and CSA - B64 Series Std.	
§849-8. D (4)	F	✓	✓	300 - 100,000	✓	300	Failing to comply with an order from the General Manager, to install devices to achieve premise isolation in addition to any other water system protective devices already installed on the property.	
§849-8. D (5)	F	✓	✓	300 - 100,000	✓	300	Failure to install premise isolation devices, in accordance with the standards and specifications in new or existing industrial, commercial, institutional and multi-unit residential buildings, structures and properties and other properties designated by the General Manager or the CBO.	
§849-8. D (6)	F	✓	✓	300 - 100,000	✓	300	Failure to design, construct, install and maintain a premise isolation system for each water service connection so that the system is in compliance with all applicable law including the Ontario Building Code and CSA - B64 Series Standards.	

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Clause	Sch	O	F	\$ Amount	T	\$ Amt	Details	Comment
§849-8. D (7)	F	✓	✓	300 - 100,000	✓	300	Failing to obtain a building permit for each cross connection control device and backflow prevention device to be installed.	
§849-8. D (8)	F	✓	✓	300 - 100,000	✓	300	Failure to properly inspect and test each cross connection control and backflow prevention device where or when installed, at the required times, by a person certified to do so.	
§849-8. D (9)	F	✓	✓	300 - 100,000	✓	300	Failure to submit a report, to the General Manager on a form supplied by the General Manager in respect of any tests performed on a cross connection control device or backflow prevention device within seven days of the performance of such test.	
§849-8. D (10)	F	✓	✓	300 - 100,000	✓	300	Failure to display a legibly marked record card on the cross connection control device or backflow prevention device which indicates the address of the property, the location, date of installation, type, manufacturer, serial number and size of the device, the test date, the tester's initials, the tester's name, the name of the tester's employer and the tester's certificate number.	
§849-8. D (11)	F	✓	✓	300 - 100,000	✓	300	Failure to comply with an order to have a cross connection control device or backflow prevention device inspected, tested and approved as required within seven calendar days of the order being sent	
§849-8. D (12)	F	✓	✓	300 - 100,000	✓	300	Failure to repair or replace a device within 48 hours of a test of a cross connection control or backflow prevention device which reveals that such device is not in proper working condition, or is not in conformance with the standards and specifications	
§849-8. D (13)	F	✓	✓	300 - 100,000	✓	300	Failure to install additional zone or area protection devices as required by the General Manager	
§849-8. D (14)	F	✓	✓	300 - 100,000	✓	300	Failure to submit a cross connection control or backflow prevention device survey, in the form prescribed by General Manager within 30 days of request	
§849-8. D (15)	F	✓	✓	300 - 100,000	✓	300	Failure to submit proper updated cross connection control and backflow prevention device survey at a frequency of not less than once every five years.	
§849-8. D (16)	F	✓	✓	300 - 100,000	✓	300	Failure to include detailed plans of the private water service pipe, private water system and private fire service mains and any devices or equipment associated with them and including accompanying detailed report in the cross connection control and backflow prevention device surveys.	
§849-8. D (16)	F	✓	✓	300 - 100,000	✓	300	Failure to have the survey and report stamped, signed and sealed by a professional engineer as authorized by the Association of Professional Engineers of Ontario to perform such work.	
§849-8. D (18)	F	✓	✓	300 - 100,000	✓	300	Failure to submit an original copy of the most current calibration test results (for the testing equip.) by the owner to the General Manager or the CBO within 30 days of the date of calibration and testing of the owner's backflow prevention and cross connection control devices.	

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Clause	Sch	O	F	\$ Amount	T	\$ Amt	Details	Comment
§849-8.D (19) (a)	F	✓	✓	300 - 100,000	✓	300	Failure to immediately replace a device removed for repair with a temporary device, until such time the original device is satisfactorily repaired or replaced and tested.	
§849-8.D (19) (b)	F	✓	✓	300 - 100,000	✓	300	Failure to immediately replace a removed device with another device, that meets or exceeds the requirements of §849-8.	
§849-8.D (19) (c)	F	✓	✓	300 - 100,000	✓	300	Remove or cause or permit to be removed a cross connection control device or a backflow prevention device after it has been installed and such removal has not been approved by an authorized engineer	
§849-8.D (19) (d)	F	✓	✓	300 - 100,000	✓	300	Remove or cause or permit to be removed a cross connection control device or a backflow prevention device after it has been installed and such removal has not been authorized by the General Manager.	
§849-8.D (20)	F	✓	✓	300 - 100,000	✓	300	Temporary cross connection control devices and backflow prevention devices do not meet the requirements of the standards and specifications, CSA - B64 Series Standards and this by-law	
§849-8.D (20)	F	✓	✓	300 - 100,000	✓	300	Failure to comply with date requirements of §849-8 D. Schedule G	
§849-8.E (1)	F	✓	✓	300 - 100,000	✓	300	Failure to install cross connection control device and/or backflow prevention device in a location that is readily accessible for operational, renewal, servicing, maintenance and inspection purposes including access to the location without the use of a portable ladder or the necessity of climbing over or removal of an obstacle.	
§849-8.E (2)	F	✓	✓	300 - 100,000	✓	300	Failure to provide access to a cross connection control device and/or backflow prevention device	
§849-8.E (3)	F	✓	✓	300 - 100,000	✓	300	Failure to remove any insulating or other material on or adjacent to the private water service pipe, private water system, cross connection control device or backflow prevention device so that full access to them is available for testing and inspection purposes.	
§849-8.E (4)	F	✓	✓	300 - 100,000	✓	300	Obstruct or permit or cause the obstruction of a private water service pipe, private water system, cross connection control device or backflow prevention device, either permanently or temporarily.	
§849-8.F	F	✓	✓	300 - 100,000	✓	300	Failure to ensure person who tests, installs, replaces, maintains, repairs, relocates, cleans or overhauls a backflow prevention device or cross connection control device unless such person meets all the requirements of §849-8.F (1), (2), (3) and (4)	
§849---9. G (1)	F	✓	✓	300 - 100,000	✓	300	Failure to install or maintain approved backflow prevention device	
§849---9. H (1)	D	✓	✓	100 – 50,000	✓	100	Failure to notify of damaged or missing meter or backflow preventer	Similar to §849---5. F
§849---9. I	Gen	✓	✓	50 – 50,000	✓	50	Failure to install private W/S pipe in accordance with requirements	
§849---9. J (1)	F	✓	✓	300 - 100,000	✓	300	Failure to install backflow prevention device or meter on hydrant	

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Clause	Sch	O	F	\$ Amt	T	\$ Amt	Details	Comment
§849---9. J (4) (b)	F	✓	✓	300 - 100,000	✓	300	Failure to supply & install an approved backflow prevention device	
§849---9. J (5)	E	✓	✓	300 - 50,000	✓	300	Failure to protect meter, backflow device or hydrant from damage	
§849---9. J (6)	D	✓	✓	100 - 50,000	✓	100	Failure to notify of damaged meter, backflow preventer or hydrant	
§849---10. A (1)	Gen	✓	✓	50 - 50,000	✓	50	Failure to notify City for water shut-off	
§849---10. A (2)	Gen	✓	✓	50 - 50,000	✓	50	Failure to notify tenants for water shut-off	
§849---10. B (1)	Gen	✓	✓	50 - 50,000	✓	50	Failure to notify City for water turn on	
§849---10. C	Gen	✓	✓	50 - 50,000	✓	50	Failure to attend at property for either water turn on or off	
§849---10. E	E	✓	✓	300 - 50,000	✓	300	Unauthorized operation of City's shut-off valve	
§849---11. A (1)	E	✓	✓	300 - 50,000	✓	300	Unauthorized operation of City's shut-off valve	
§849---11. A (2)	E	✓	✓	300 - 50,000	✓	300	Unauthorized operation of City's shut-off valve	
§849---12. A (2)	Gen	✓	✓	50 - 50,000	✓	50	Failure to provide city with results of fire hydrant flow test	
§849---12. C (1)	D	✓	✓	100 - 50,000	✓	100	Failure to ensure clear visibility around fire hydrant	
§849---12. C (2)	D	✓	✓	100 - 50,000	✓	100	Failure to maintain 1.2 m clearance around fire hydrant	
§849---13. B (2)	F	✓	✓	300 - 100,000	✓	300	Failure to supply & install an approved backflow prevention device	
§849---13. D	D	✓	✓	100 - 50,000	✓	\$ 100	Failure to notify City if water usage exceeds 50 m ³	
§849---13. F	E	✓	✓	300 - 50,000	✓	\$ 300	Failure to apply & get approval for a fire hydrant permit prior to use	
§849---14. A (1)	D	✓	✓	100 - 50,000	✓	\$ 100	Excessive use & wasting of water	
§849---14. A (2)	D	✓	✓	100 - 50,000	✓	\$ 100	Excessive use & wasting of water	
§849---14. A (3)	D	✓	✓	100 - 50,000	✓	\$ 100	Use of a garden fountain or similar device that does not utilize a water recirculating system.	
§849---14. E (1)	Gen	✓	✓	50 - 50,000	✓	\$ 50	Failure to observe water use restriction order for watering vegetation	
§849---14. E (2)	Gen	✓	✓	50 - 50,000	✓	\$ 50	Failure to observe water use restriction order for pools, ponds, etc.	
§849---14. E (3)	Gen	✓	✓	50 - 50,000	✓	\$ 50	Failure to observe water use restriction order for outdoor water play	
§849---14. E (4)	Gen	✓	✓	50 - 50,000	✓	\$ 50	Failure to observe water use restriction order for washing cars, etc.	
§849---14. E (5)	Gen	✓	✓	50 - 50,000	✓	\$ 50	Failure to observe water use restriction order for outdoor misting system	
§849---14. E (6)	E	✓	✓	300 - 50,000	✓	\$ 300	Failure to observe water use restriction order for large tanks & trucks	
§849---14. G	Gen	✓	✓	50 - 50,000	✓	50 - 300	Failure to observe water use restriction order	
§849---15. A	D	✓	✓	100 - 50,000	✓	\$ 100	Failure to provide contact names & numbers to City	
§849---15. B	D	✓	✓	100 - 50,000	✓	\$ 100	Failure to provide contact names & numbers to City	
§849---16. A	D	✓	✓	100 - 50,000	✓	\$ 100	Failure to provide access to a property as required by this By-law	
§849---17. B (1)	D	✓	✓	100 - 50,000	✓	100	Failure to provide required relevant documents or information	
§849---17. C	D	✓	✓	100 - 50,000	✓	100	Refusal or failure to provide information for inspection	
§849---17. D	D	✓	✓	100 - 50,000	✓	100	Neglect or refusal to provide information for inspection	
§849---18. A	E	✗	✓	300 - 50,000	✓	300	Misrepresentation by a person that they are an owner	

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February 18, 2007

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§849---18. B (1)	F	✓	✓	300 - 100,000	✓	300	Obstruction of City personnel lawfully entering onto land, property, etc	
§849---18. B (2)	F	✓	✓	300 - 100,000	✓	300	Obstruction of City personnel taking samples	
§849---18. B (3)	F	✓	✓	300 - 100,000	✓	300	Obstruction of City personnel making various inspections	
§849---18. B (4)	F	✓	✓	300 - 100,000	✓	300	Obstruction of City personnel reading, sealing, repairing, installing, etc. water meter, back flow & cross connection preventers	
§849---19. A (1)	F	✓	✓	300 - 100,000	✓	300	Unauthorized connection, damage, tampering, etc with the waterworks	
§849---19. A (2)	F	✓	✓	300 - 100,000	✓	300	Unauthorized connection, damage, tampering, etc with anything attached to the waterworks	
§849---19. B	F	✓	✓	300 - 100,000	✓	300	Causing damage to the waterworks or failure to ensure that any action taken by an owner or person conforms at all times to the provisions of this by-law	
§849---19. C	F	✓	✓	300 - 100,000	✓	300	Unauthorized entry to the waterworks	
§849---23	F	✓	✓	300 - 100,000	✓	300	Failure by owner to retain required documentation for period of 7 years	

**NEW WATER SUPPLY BY-LAW
CHAPTER 849, SCHEDULE G
BACKFLOW PREVENTOR INSTALLATIONS, PREMISE ISOLATION
INSTALLATION AND SURVEY DATES BASED ON INDUSTRY SECTOR**

COLUMN 1 INDUSTRY SECTOR	COLUMN 2 HAZARD LEVEL	COLUMN 3 SURVEY DATE	COLUMN 4 INSTALLATION DATE
Aircraft Manufacturing	Severe	September 30, 2008	December 31, 2008
All Printing Industry	Severe	September 30, 2008	December 31, 2008
Automobile Manufacturing	Severe	September 30, 2008	December 31, 2008
Beverage Manufacturing	Severe	September 30, 2008	December 31, 2008
Breweries	Severe	September 30, 2008	December 31, 2008
Car Washes	Severe	September 30, 2008	December 31, 2008
Chemical Manufacturing	Severe	September 30, 2008	December 31, 2008
Cosmetic Product Manufacturing	Severe	September 30, 2008	December 31, 2008
Distilleries	Severe	September 30, 2008	December 31, 2008
Dry Cleaners	Severe	September 30, 2008	December 31, 2008
Dye & Pigment Manufacturing	Severe	September 30, 2008	December 31, 2008
Electroplating, Plating, Polishing, Anodizing, & Colouring	Severe	September 30, 2008	December 31, 2008
Food Processing	Severe	September 30, 2008	December 31, 2008
Funeral Homes/ Cemetery	Severe	September 30, 2008	December 31, 2008
Industrial Laundries	Severe	September 30, 2008	December 31, 2008
Lubricating Oil & Grease Manufacturing	Severe	September 30, 2008	December 31, 2008
Machine Tool Manufacturing	Severe	September 30, 2008	December 31, 2008
Machine Tool Operations	Severe	September 30, 2008	December 31, 2008
Meat Processing	Severe	September 30, 2008	December 31, 2008
Medical Laboratories	Severe	September 30, 2008	December 31, 2008

COLUMN 1 INDUSTRY SECTOR	COLUMN 2 HAZARD LEVEL	COLUMN 3 SURVEY DATE	COLUMN 4 INSTALLATION DATE
Metal Can Manufacturing	Severe	September 30, 2008	December 31, 2008
Metal Coating, Engraving	Severe	September 30, 2008	December 31, 2008
Metal Fabrication	Severe	September 30, 2008	December 31, 2008
Metal Window & Door Manufacturing	Severe	September 30, 2008	December 31, 2008
Mortuary	Severe	September 30, 2008	December 31, 2008
Nonferrous Metal Manufacturing	Severe	September 30, 2008	December 31, 2008
Other Metal Container Manufacturing	Severe	September 30, 2008	December 31, 2008
Paint & Coating Manufacturing	Severe	September 30, 2008	December 31, 2008
Paper Processing Plants	Severe	September 30, 2008	December 31, 2008
Personal Care Products Manufacturing	Severe	September 30, 2008	December 31, 2008
Petro-Chemical Manufacturing	Severe	September 30, 2008	December 31, 2008
Petroleum Bulk Storage Facilities	Severe	September 30, 2008	December 31, 2008
Petroleum Refining	Severe	September 30, 2008	December 31, 2008
Pharmaceutical Manufacturing	Severe	September 30, 2008	December 31, 2008
Photographic Film Manufacturing	Severe	September 30, 2008	December 31, 2008
Photographic Plate / Paper Manufacturing	Severe	September 30, 2008	December 31, 2008
Plastic Manufacturing	Severe	September 30, 2008	December 31, 2008
Plastic Material & Resin Manufacturing	Severe	September 30, 2008	December 31, 2008
Printed Circuit Board Manufacturing	Severe	September 30, 2008	December 31, 2008
Rubber Manufacturing	Severe	September 30, 2008	December 31, 2008
Soap & Detergent Manufacturing	Severe	September 30, 2008	December 31, 2008
Textile Manufacturing/ Processing	Severe	September 30, 2008	December 31, 2008
Veterinary Hospitals	Severe	September 30, 2008	December 31, 2008
Wastewater Treatment Plants	Severe	September 30, 2008	December 31, 2008

COLUMN 1 INDUSTRY SECTOR	COLUMN 2 HAZARD LEVEL	COLUMN 3 SURVEY DATE	COLUMN 4 INSTALLATION DATE
Water Treatment Plants	Severe	September 30, 2008	December 31, 2008
Agricultural/ Landscaping Applications	Severe	December 31, 2008	March 31, 2009
Air Conditioning & Refrigeration	Severe	December 31, 2008	March 31, 2009
Allied Services to Manufacturing	Severe	December 31, 2008	March 31, 2009
Analytical Laboratories	Severe	December 31, 2008	March 31, 2009
Asphalt Paving Mixture & Block Manufacturing	Severe	December 31, 2008	March 31, 2009
Auto Dealers	Severe	December 31, 2008	March 31, 2009
Autobody Refinishing	Severe	December 31, 2008	March 31, 2009
Automotive Repairs	Severe	December 31, 2008	March 31, 2009
Automotive Transmission Repair	Severe	December 31, 2008	March 31, 2009
Carpet Cleaners	Severe	December 31, 2008	March 31, 2009
Clinical Laboratories	Severe	December 31, 2008	March 31, 2009
Death Care Services	Severe	December 31, 2008	March 31, 2009
Dental Clinics	Severe	December 31, 2008	March 31, 2009
Gas Stations	Severe	December 31, 2008	March 31, 2009
Greenhouses	Severe	December 31, 2008	March 31, 2009
Hospitals	Severe	December 31, 2008	March 31, 2009
Milk/ Dairy Product Processing	Severe	December 31, 2008	March 31, 2009
Photo Finishing	Severe	December 31, 2008	March 31, 2009
Research Laboratories	Severe	December 31, 2008	March 31, 2009
Wineries	Severe	December 31, 2008	March 31, 2009

COLUMN 1 INDUSTRY SECTOR	COLUMN 2 HAZARD LEVEL	COLUMN 3 SURVEY DATE	COLUMN 4 IMPLEMENTATION DATE
Air compressor oil cooler	Moderate	March 31, 2009	June 30, 2009
Apartment building	Moderate	March 31, 2009	June 30, 2009
Commercial premises	Moderate	March 31, 2009	June 30, 2009
Hotels & Motels	Moderate	March 31, 2009	June 30, 2009
Schools (elementary, junior high, senior high)	Moderate	March 31, 2009	June 30, 2009
Swimming pools	Moderate	March 31, 2009	June 30, 2009
Swimming pools (direct connection)	Moderate	March 31, 2009	June 30, 2009
Technical institutes	Moderate	March 31, 2009	June 30, 2009
Universities	Moderate	March 31, 2009	June 30, 2009
Veterinary clinic	Moderate	March 31, 2009	June 30, 2009
Vending Machine Suppliers	Low	June 30, 2009	September 30, 2009