



SEWER BYLAW

5033-2009

THIS DOCUMENT HAS BEEN REPRODUCED FOR CONVENIENCE ONLY and is a consolidation of "District of Mission Sewer Bylaw 5033-2009" with the following amending bylaws:

Amending Bylaw	Date Adopted	Section Amended
5070-2009 (general fees and charges amending)	December 14, 2009	Schedule "C"
5188-2010 (general fees and charges amending)	December 20, 2010	Schedules "C" and "D"
5193-2011-5033(1)	February 7, 2011	Schedule "D"

Individual copies of any of the above bylaws are available from the Corporate Administration Department of the District of Mission. For legal purposes, copies of the original bylaws should be obtained.

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DISTRICT OF MISSION

SEWER BYLAW 5033-2009

A bylaw to require owners of real property to connect their buildings and structures to the appropriate sewer or drain connections; and to impose a connection charge upon owners of real property to defray the cost of laying connecting pipes, and fix the terms and conditions of payment

WHEREAS the District of Mission has established sewerage works for the collection, conveyance and disposal of sewage; and drainage works; for the impounding, conveying, and discharging of surface and other waters;

AND WHEREAS the Council may by bylaw regulate the design and installation of drainage and sewerage works and require owners of real property to connect their buildings and structures to sewer or drainage connections and impose a connection charge and, in the event of an owner failing to make the necessary connections within a specified time, provide for having the work done at his expense;

NOW THEREFORE, the Council of the District of Mission in open meeting assembled, ENACTS AS FOLLOWS:

1. CITATION

This bylaw may be cited as the "District of Mission Sewer Bylaw No. 5033-2009".

2. INTERPRETATION

- (1) Schedule "A" contains definitions of words and phrases used in this Bylaw.
- (2) Words and phrases not otherwise defined in this Bylaw shall have the same meanings as in the current edition of the Standard Methods or, if not defined in the Standard Methods, they shall have their common and ordinary meanings to the degree consistent with the technical subjects in this Bylaw.

3. SEWER CONNECTION MANDATORY

- (1) The Owner of every parcel of real property where a building or structure is situated and to which a Service Connection can be or was made, shall connect such building or structure to the Sewer on receiving notice to connect from the Engineer.
- (2) In the event any Owner fails to make the required connection to the Sewer within 60 days of receiving notice, the Engineer may cause the connection to be made at the Owner's expense. The amount of such expense is declared a charge for work done or services provided to lands or improvements, under the provisions of the *Community Charter*; and is a charge or lien on the lands of the Owner, which may be collected in the same manner, and with the same remedies, as ordinary property taxes.

- (3) Notwithstanding subsection (2), any Owner failing to make the required connection within the 60 days, shall be guilty of an offence under this Bylaw.

4. APPLICATION FOR SEWER CONNECTION

No Person shall connect any building to a Service Connection until either the Person or the Person's authorized agent:

- (1) receives authorization from the District, as part of a subdivision approval or a building permit Application process regulated by the District's Subdivision Control Bylaw; or
- (2) completes an Application and an agreement substantially in the form prescribed in Schedule "B" of this Bylaw, and the Application is approved by the District. Every applicant shall provide true and accurate information as to all details in the Application and agreement, and any Person willfully and knowingly providing false information shall be guilty of an offence under this Bylaw.

5. SEWER USER RATES

- (1) The Owner of every parcel of real property to which a Service Connection is made shall pay the applicable Sewer User Rate prescribed in District's Sewer Use Rates and Charges Bylaw.
- (2) Sewer User fees shall be included in the annual tax notice for the property and shall be payable by the Owner in the same manner as property taxes.
- (3) The District shall have no obligation to provide a Service Connection to any parcel of real property until all rates and charges due and owing under this Bylaw in connection with that property, are paid in full to the District.

6. SEWER RATES TO FORM CHARGE ON LAND

The rates and charges, enumerated in Schedules "C" and "D" attached to and forming part of this Bylaw, are imposed and levied to provide the service and other Sewer related services. All such rates and charges that are imposed for work done or services provided to lands or improvements, shall form a charge on those lands, which may be recovered from the Owner of the lands in the same manner and by the same means as unpaid property taxes.

7. CONNECTION FEE PAYABLE

- (1) Except where circumstances in subsection (2) apply, at the time of Application for connection or relocation of a Service Connection, every applicant shall pay a Service Connection fee in the amount and in the manner prescribed in Schedule "C" of this Bylaw.

- (2) Where, in the opinion of the Engineer, a Person is required by the District's Subdivision Control Bylaw to provide Service Connections for a Storm Water and/or Sanitary Sewer system as a condition of subdivision approval or issuance of a building permit, the Service Connection fee prescribed in Schedule "C" shall not apply, and that Person shall pay the actual direct and indirect costs to provide the Service Connections, including, but not limited to, all direct and indirect costs and expenses to design, construct and install the Service Connections in accordance with the requirements of the District's Subdivision Control Bylaw.

8. ACCOUNTS PAYABLE TO COLLECTOR

All accounts for service, sewer charges and rates as prescribed by this Bylaw, shall be due and payable at the office of the Collector, Mission District Hall, 8645 Stave Lake Street, Mission, British Columbia.

9. CONNECTION TO BE APPROVED BY ENGINEER

No Person shall connect any plumbing facilities, drains, or outlets of any kind to the Sewer until such connection is approved by the Engineer.

10. NO CONNECTION IF SERVICE INADEQUATE

The Engineer may refuse to provide a Service Connection to a parcel of land where, in the opinion of the Engineer, the Common Sewer is incapable of adequately serving that parcel of land.

11. CONNECTION INSPECTIONS

- (1) Upon completion of the installation and construction of a Building Sewer, and before it is backfilled, the Owner shall inform the Inspector that the Works are complete and that the Inspector may carry out an inspection of the Work.
- (2) The Owner shall leave all such Work uncovered and convenient for examination, and the Building Sewer shall not be covered, backfilled, finished, or connected with the Service Connection in any way, until the Inspector approves, in writing, the construction and installation of the Building Sewer.
- (3) The Owner shall, at the direction of the Inspector, remove and replace all materials and workmanship which, in the opinion of the Inspector, are defective or otherwise not in accordance with the provisions of this or any other relevant Bylaw, and the Building Sewer shall not be covered, backfilled, or connected with the Service Connection until the Building Sewer is accepted and approved by the Inspector, as provided in subsection (2).
- (4) If the Owner fails to replace materials or correct faulty workmanship, as provided in subsection (3), the City may issue a notice under Section 3 of this Bylaw, and the conditions imposed by Section 3 shall apply to such notice.

- (5) The Owner shall pay an additional inspection fee, as prescribed in the District's Building Bylaw, for each additional inspection required, after the first inspection, due to faulty materials or workmanship.

12. INSTALLATION OF SEWER CONNECTION AND BUILDING SEWER

- (1) Upon receipt of the Application to connect to the Sewer and payment of the sewer connection fee prescribed in Schedule "C" of this Bylaw, the District shall, if necessary, cause a Service Connection to be installed.
- (2) The sewer connection fee prescribed in Schedule "C" of this Bylaw does not include connection to, or inspection of, Works within the property of the applicant.
- (3) No Person other than the District, its employees or contractors, shall install, or cause to be installed, any part of the Service Connection provided in this Bylaw, or in any way break, interfere or tamper with any Common Sewer of the District.

13. DISCONNECTION FROM AND RECONNECTION TO SEWER

- (1) Before any Building Sewer is disconnected from a Service Connection or Common Sewer, the Owner of the lands or the Owner's agent requiring such disconnection, shall apply to the District on the prescribed form for a permit to disconnect from the Service Connection or Common Sewer, and shall pay to the District the applicable disconnection fee prescribed in Schedule "C" of this Bylaw.
- (2) If an Owner of lands, from which a Building Sewer has been disconnected from a Service Connection or Common Sewer, requires reconnection to such Service Connection or Common Sewer, the Owner shall make application to the District in accordance with Section 4 of this Bylaw for a permit to reconnect to the Service Connection or Common Sewer, and shall pay a reconnection fee as prescribed in Schedule "C" of this Bylaw.
- (3) On application for a reconnection to a Service Connection or Common Sewer, the Owner shall expose the Service Connection for inspection and contact the District's Engineering Services Department to schedule a video inspection. If the District determines, as a result of the inspection, that the condition of the Service Connection will not permit reconnection, a new Service Connection shall be installed and the Owner shall pay the applicable fee for a new Service Connection, as prescribed in Schedule "C", attached to, and forming part of, this Bylaw. If the District determines, as a result of the inspection, that the condition of the Service Connection will permit reconnection, the Owner shall supply and install, at the Owner's cost, an Inspection Chamber at the property line in accordance with the District's standards prescribed for such installation.

14. SPECIFICATIONS FOR BUILDING SEWERS

- (1) Each lot or potential lot shall be separately and independently connected with the Common Sewer unless otherwise determined by the Engineer.
- (2) All Building Sewers shall be constructed in accordance with the specifications contained in the current edition of the *British Columbia Plumbing Code*.

15. SUMP AND BACKWATER VALVE

- (1) Where a Building Sewer is connected to a Sanitary Sewer, every Owner, if required by the Engineer, shall install a standard backwater valve, designed to the specifications and satisfaction of the Inspector within the building or structure or in an approved location outside the building.
- (2) Where a Building Sewer is connected to a Storm Sewer, every Owner shall install a standard sump and backwater valve within the building or structure or in an approved location outside the building, which is designed to the specifications and satisfaction of the Inspector.

16. INTERCEPTORS

- (1) An Owner or Operator of Premises that is intended to be used for an industrial, commercial or institutional purpose may be required by the Engineer to install, operate and maintain Interceptors in the Building Sewer for the control of Waste containing grease, flammable substances, sand, grit or any other harmful ingredient.
- (2) Interceptors required pursuant to this Bylaw, shall be installed and maintained by the Owner or Operator at the Owner or Operator's expense and shall be of the quantity and type as prescribed by the Engineer and shall be located so as to be easily accessible for inspection.
- (3) The Owner or Operator of Premises described in Sections 16 (1) and 16 (2) shall :
 - (a) keep each Interceptor in good working condition at all times; and
 - (b) service each Interceptor often enough so that it does not become overloaded.
- (4) The Owner or Operator of Premises described in Sections 16 (1) and 16 (2) must keep a record at the Premises of all Interceptor inspection and maintenance activities including:
 - (a) the date of inspection or maintenance;
 - (b) the maintenance conducted;

- (c) the type and quantity of material removed from the Interceptor; and
 - (d) the location and disposal of the material removed from the Interceptor.
- (5) The records described in Section 16 (4) must be retained onsite for a minimum period of two years and must be available for inspection upon request by the Engineer.
- (6) No Person shall Discharge or deposit, or cause or permit the Discharge or deposit of any Interceptor residue into any Sewer.

17. SWIMMING POOLS

Every swimming pool that is equipped with a pump system and located on a lot that is serviced by a Sanitary Sewer shall Discharge the backwash pump into the Sanitary Sewer.

18. RECREATIONAL VEHICLES

No Person who operates a recreational vehicle shall Discharge or drain, or permit or allow the Discharge or drainage of Recreational Vehicle Waste other than into a designated Sani-Dump station.

19. HOUSEHOLD AND COMMERCIAL GARBAGE GRINDERS

Every mechanically or electrically operated household or commercial Garbage grinder shall:

- (1) operate with cold Water flowing into the grinder and through the sink drain in a manner that congeals and aerates the solid and liquid greases within the grinding unit;
- (2) Discharge Waste at a reasonably uniform rate in fluid form, that flows readily through an approved trap, drain line, or soil line in a manner that prevents clogging or stoppage of the drain line;
- (3) be constructed with such operating characteristics that not more than five percent by weight of all material that is discharged shall have any dimension larger than 5 mm, and no particle shall have any dimension greater than 5 mm, which is determined on a dry basis;
- (4) be self-scouring with no fouling surfaces to cause objectionable odors;
- (5) be free from electrical or mechanical hazards and protect the operator against injury during operation;
- (6) be free from cross connection to any Water pipe;
- (7) comply with all relevant District Bylaws and regulations.

20. VEHICLE WASH OPERATIONS

No Person that operates a Vehicle Wash Operation or washes motor vehicles in conjunction with any commercial undertaking, shall Discharge or drain, or permit or allow the Discharge or drainage of wash Water, other than into a Sanitary Sewer or onto natural ground where the wash Water may be absorbed.

21. SEPTIC TANKS

- (1) No Person shall connect a septic tank to a Sewer, and no Person shall permit any Sludge or deposit contained in any septic tank to enter into a Sewer.
- (2) Where a building was served by one or more septic tanks, and the building is subsequently connected to the Sewer, the Owner shall, within three months after the date of such connection, either remove the septic tank(s) and fill the excavation(s), or clean the septic tank(s) and fill the tank(s) with gravel or sand in such a manner that there is no danger of cave-in.

22. TRUCKED LIQUID WASTE

- (1) No Person shall Discharge or deposit, or cause or permit the Discharge or deposit of any Trucked Liquid Waste into any Sewer.
- (2) Every Person shall Discharge or deposit Trucked Liquid Waste only at the J.A.M.E.S. Treatment Plant at 5959 Gladwin Road, Abbotsford, B.C., in accordance with the J.A.M.E.S. Pollution Control Centre Procedure Manual, as amended from time to time, or replaced.
- (3) Every Person who Discharges Trucked Liquid Waste at the J.A.M.E.S. Treatment Plant shall pay a Trucked Liquid Waste fee to the District calculated in accordance with the fee set out in Schedule "D".
- (4) Every Person shall Discharge or deposit Holding Tank Waste only at a facility authorized for that purpose in accordance with District of Mission Holding Tank Sewage Regulation Bylaw 3283-2005, as amended from time to time.

23. DISCHARGES TO STORM SEWERS

- (1) No Person shall directly or indirectly Discharge or allow or cause to be discharged into a Storm Sewer, approved Natural Outlet or Watercourse:
 - (a) a Prohibited Waste or a Restricted Waste;
 - (b) Industrial Cooling Water unless that Person has first pretreated the Industrial Cooling Water which may contain insoluble Oils or Grease or insoluble Suspended Solids, to remove all Contaminants, before the resultant clear Uncontaminated Water is discharged; or

- (c) Industrial wash Water from the reclamation of foundry sand unless that Person has first pretreated the industrial wash Water to remove all insoluble Contaminants before the resultant clear Uncontaminated Water is discharged.
- (2) A Person must only Discharge Uncontaminated Water from air-conditioning, cooling or condensing systems into a Storm Sewer or an approved Natural Outlet or Watercourse.

24. DISCHARGES TO SANITARY SEWERS

- (1) No Person shall directly or indirectly Discharge or allow or cause to be discharged into a Sanitary Sewer:
 - (a) a Prohibited Waste;
 - (b) a Restricted Waste unless:
 - (i) that Person has first obtained a Wastewater Discharge Permit and the Discharge is in compliance with the Wastewater Discharge Permit; or
 - (ii) complies with a Code of Practice for that type of Waste.
 - (c) Waste from a Discharging Operation unless that Person:
 - (i) has first obtained a Wastewater Discharge Permit; or
 - (ii) complies with a Code of Practice for that type of Waste;
 - (d) industrial Cooling Water or Uncontaminated Water;
 - (e) Water from air-conditioning, cooling, or condensing systems;
 - (f) Storm Water, surface Water, groundwater, roof run-off or surface drainage in any amount; or
 - (g) Water or Waste, where the peak rate of Discharge is greater than three times the average daily rate of Discharge by that User. If the peak rate of Discharge exceeds this limit, an additional peak flow surcharge may be imposed.
- (2) No Person shall directly or indirectly Discharge or allow or cause to be discharged into a Sanitary Sewer any Water or other Substance for the purpose of dilution of any Non-Domestic Waste.
- (3) Every Person who directly or indirectly Discharges Waste or Substances produced, treated, handled or stored on property other than Residential Property into a Sanitary Sewer shall, as a condition of that Discharge:

- (a) provide and maintain facilities to prevent accidental Discharge or a Discharge contrary to this Bylaw or Wastewater Discharge Permit, including but not limited to Spill Containment, recovery or neutralization facilities for Substances which, if accidentally discharged, would constitute Prohibited Waste or Restricted Waste;
 - (b) post, and keep posted, permanent signs in conspicuous locations on the Premises displaying the name, telephone number of the Person to call as prescribed in Schedule "P" in the event of accidental Discharge of a Prohibited Waste or Restricted Waste; and
 - (c) inform employees, who may cause or discover the Discharge of Prohibited Waste or Restricted Waste, of the notification procedures set out in Section 28 of this Bylaw.
- (4) The Engineer may cause any Building Sewer connected to a Sanitary Sewer or Service Connection without a permit, or any Building Sewer depositing into a Sanitary Sewer or into a Service Connection, any Wastewater, Substance or matter prohibited by this Bylaw, to be disconnected, stopped up, and closed.
 - (5) Where in the Engineer's opinion there exists the possibility that any of the Waste or Substances described in Section 24 (1) may be discharged into a Sanitary Sewer from any Premises, the Engineer may issue a permit for the connection of such Premises to a Sanitary Sewer, if protective devices satisfactory to the Engineer are installed by the applicant to prevent the Discharge of such Waste or Substances into the Sanitary Sewer or to neutralize the Waste or Substances.
 - (6) No Person shall connect any roof leaders, foundation drains, field drains, sumps, or other collectors of surface or groundwater to a Sanitary Sewer.

25. WASTEWATER DISCHARGE PERMITS

- (1) The Engineer may issue a Wastewater Discharge Permit to allow the Discharge of Waste other than Domestic Waste upon such terms and conditions as the Engineer considers appropriate for the protection of Sanitary Sewers, Wastewater Treatment System, human or animal health and safety and the environment, and without limiting the generality of the foregoing, may, as terms and conditions of the Wastewater Discharge Permit:
 - (a) place limits and restrictions on the quantity, frequency of Discharge and nature of the Waste permitted to be discharged;
 - (b) require the holder of a Wastewater Discharge Permit, at his or her expense, to repair, alter, remove or add Works, or construct new Works to ensure that the Discharge will comply with the Wastewater Discharge Permit, this Bylaw and any applicable Enactment;

- (c) require the holder of a Wastewater Discharge Permit, at his or her expense, to monitor the Waste being discharged under the Wastewater Discharge Permit in the manner specified by the Engineer and to provide information concerning the Discharge as requested by the Engineer including, but not limited to, routine maintenance check dates, cleaning and Waste removal dates, and the means of disposal of accumulated Wastes and Waste treatment residuals;
 - (d) require the holder of the Wastewater Discharge Permit to submit to the Engineer detailed plans and operating procedures for all existing facilities installed on the Premises for the purpose of preventing accidental Discharge;
 - (e) require compliance by the holder of the Wastewater Discharge Permit with such other Enactments as the Engineer considers necessary or desirable in the circumstances;
 - (f) make such other requirements as the Engineer deems necessary or desirable.
- (2) The Engineer may require any Person or any class of Persons to obtain a Wastewater Discharge Permit for the Discharge by that Person or class of Persons of any Non-Domestic Waste that is not a Restricted Waste.
 - (3) Upon receipt of notice under subsection 25 (2), the Person receiving the notice shall, within 30 days, apply for a Wastewater Discharge Permit and shall provide to the Engineer such information relating to the Discharge of Non-Domestic Waste by that Person as the Engineer may require.
 - (4) The Engineer may suspend or revoke a Wastewater Discharge Permit for a failure to comply with the terms and conditions of the Wastewater Discharge Permit or for any failure to comply with this Bylaw, or any Enactment applicable to the Discharge of Waste into a Sanitary Sewer.
 - (5) (a) A Wastewater Discharge Permit may not be transferred or assigned without the Engineer's consent in writing.
(b) The Engineer may withhold consent where there has been a breach of this Bylaw or a condition of the Wastewater Discharge Permit.
 - (6) An application for a Wastewater Discharge Permit for a new Discharge, or an amendment to an existing Wastewater Discharge Permit, shall be made to the Engineer on the form attached hereto as Schedule "G" or Schedule "H" not less than 90 days prior to the date that the Wastewater Discharge Permit is required, and shall be accompanied by such information, drawings and specifications as may be required under Schedule "G" or Schedule "H".

- (7) A Wastewater Discharge Permit is only valid for a maximum of 365 days unless otherwise specified by the Engineer. Wastewater Discharge Permits must be renewed no less than 30 days prior to the expiry date.

26. CODES OF PRACTICE

- (1) A Code of Practice does not apply to a Discharging Operation that is subject to a Wastewater Discharge Permit, unless otherwise specified in the Wastewater Discharge Permit or required by the Engineer.
- (2) Nothing in a Code of Practice relieves a Person discharging Waste from complying with this Bylaw, a Wastewater Discharge Permit or any other applicable Enactment.
- (3) A Code of Practice does not apply to the Discharge of Domestic Waste.
- (4) The Engineer may require a Discharging Operation to obtain a Wastewater Discharge Permit if considered necessary by the Engineer because of circumstances not covered by a Code of Practice.
- (5) If a Code of Practice establishes a requirement in relation to a specific Discharging Operation which differs from a provision in this Bylaw, the requirements of the Code of Practice prevail.

27. MAINTENANCE OF WORKS AND PROCEDURES

- (1) Every Person who holds a Wastewater Discharge Permit or who operates a Discharging Operation or who otherwise Discharges Waste produced on property other than Residential Property into a Sanitary Sewer, shall ensure that all necessary measures be taken to keep all equipment and facilities maintained and in good repair to ensure compliance with the terms and conditions of this Bylaw or a Wastewater Discharge Permit.
- (2) No Person shall Discharge or allow or cause to be discharged, into a Sanitary Sewer or Wastewater Treatment System, Non-Domestic Waste, which has bypassed any Waste control Works or Treatment Works authorized and required by the Engineer or which is not otherwise in compliance with this Bylaw.

28. NOTIFICATION

- (1) A Person who Discharges Waste or allows the Discharge of Waste into a Sewer or a Wastewater Treatment System in contravention of a Wastewater Discharge Permit or this Bylaw, after becoming aware of the Discharge, shall stop the Discharge and, after reporting the Discharge in accordance with the Spill Reporting Regulation (where applicable), shall immediately notify:
 - (a) the Engineer by telephone and provide the information specified in Schedule "I" of this Bylaw;

- (b) the Owner of the Premises; and
 - (c) any other Person whom the Person knows, or reasonably should know, may be directly affected by the Discharge.
- (2) Following notification as specified in subsection 28 (1) (a), a completed copy of Schedule “I” must be submitted to the Engineer within 10 days of the notification.
- (3) A Person who discharged or allowed a Discharge of Waste referred to in subsection 28 (1) shall, as soon as that Person becomes aware, or reasonably should have become aware of the Discharge, take all reasonable measures to:
- (a) confine, minimize, counteract, mitigate, remedy and repair the effects of the Discharge; and
 - (b) remove or otherwise dispose of the Substance discharged in a manner consistent with this Bylaw and other applicable Enactments.
- (4) A Person operating under an existing Wastewater Discharge Permit shall notify the Engineer in writing not less than 30 days prior to:
- (a) commencing a new activity; or
 - (b) expanding or changing an existing activity;

which affects or may affect the average composition or the total volume of Waste discharged by that Person.

29. POWERS OF ENGINEER

- (1) An Operator or Owner of a Premises connected to a Sewer shall, at all reasonable times, allow, suffer, and permit the Engineer or any Person under his authority, to enter into and on the Premises to:
- (a) ascertain whether the provisions of this Bylaw are being carried out;
 - (b) determine the size, depth, location, and condition of any Sewer, Building Sewer and all connections made and used;
 - (c) determine the location, method and place of Discharge from a roof and surface drains and plumbing fixtures;
 - (d) inspect, observe, measure, sample, and test the quantity and nature of Waste being discharged into any Sewer, Natural Outlet or Watercourse; and
 - (e) determine whether the terms of a Wastewater Discharge Permit have been or are being complied with; or

- (f) determine whether the terms of a Code of Practice have been or are being complied with.
- (2) All Works undertaken as a result of permits issued under this Bylaw shall be subject to the approval of the Engineer insofar as design, construction, and operation concerned.
- (3) If, in the opinion of the Engineer, Water or Waste that a Person proposes to Discharge into a Sewer is either Restricted Waste under Schedule “F” of this Bylaw or may create a hazard or nuisance or damage the Sewer, the Engineer may either refuse to accept the Water or Waste, or require that the Person provide any or all of the following:
 - (a) Pretreatment of the Water or Waste to an approved standard before Discharge;
 - (b) a controlled rate of Discharge of the Water or Waste;
 - (c) payment of the additional direct and indirect costs incurred by the District to handle or treat the Water or Waste.
- (4) An Owner or Operator of a Premises who fails or refuses to allow or permit the Engineer or any Person under his authority to enter Premises to administer this Bylaw commits an offence.

30. INSPECTIONS, SAMPLING, AND MONITORING OF DISCHARGES

- (1) The Engineer may require that a Person who is discharging Non-Domestic Waste or any Waste other than Domestic Waste into a Sanitary Sewer shall, at his or her expense, install one or more Monitoring Points, suitable for inspection, flow monitoring and sample collection, at locations determined by the Engineer.
- (2) Every Monitoring Point required under subsection 30 (1) shall be constructed in accordance with plans approved by the Engineer and maintained in good working order at all times.
- (3) A Monitoring Point required under subsection 30 (1) shall be installed in a manner so as not to be affected by any Discharge of Domestic Waste from a Premises, unless otherwise authorized by the Engineer.
- (4) A Monitoring Point required under subsection 30 (1) shall, for the purposes of enforcing this Bylaw, be deemed to be the point or points at which a Discharge into a Sanitary Sewer or Wastewater Treatment System is made.
- (5) In the absence of a Monitoring Point under subsection 30 (1), the point of Discharge into a Sanitary Sewer or Wastewater Treatment System shall, for the purposes of enforcing this Bylaw, be the location determined by the Engineer where access can be had to the Waste for the purpose of sampling and flow monitoring.

- (6) Where a Person is required to install a Monitoring Point under subsection 30 (1) and the Person cannot comply with such requirement within 60 days of being notified of the requirement by the Engineer, the Person shall, within 60 days of the notice being issued by the Engineer, inform the Engineer of his or her inability to install the Monitoring Point and the District may install or cause to be installed the Monitoring Point at the Person's expense.
- (7) The Owner of a Premises shall ensure that all Monitoring Points, flow measuring devices and other devices specified in a Wastewater Discharge Permit, including Water meters, are accessible for inspection by the Engineer at all times.
- (8) The Engineer may require that a Person who is discharging Waste into a Sanitary Sewer have their Discharge monitored by the District for compliance determinations.
- (9) Compliance determinations with respect to Prohibited Waste and Restricted Waste will be made on the basis of one instantaneous Grab Sample or Composite Sample. The method and frequency of sampling shall be determined by the Engineer, and the costs to purchase, install and maintain any required composite sampling equipment shall be borne by the District.
- (10) All sampling required by the Engineer shall be carried out by District employees or persons designated by the Engineer.
- (11) All sampling and analysis required by the Engineer shall be carried out in accordance with methods and procedures specified in the latest edition of Standard Methods or in a manner specified by the Engineer.
- (12) Samples which have been collected as the result of a requirement of the Engineer shall be analyzed by an independent agency or by a laboratory authorized by the Engineer.
- (13) If all test results meet the requirements under the Bylaw, the costs to collect and test the sample will be borne by the District. If any test results are above the limits specified in this Bylaw, the costs to collect and test the samples will be charged to the User.
- (14) Users with private water supplies, or discharging portions of Unpolluted Water to atmosphere, ditches, or creeks, shall at the discretion of the Engineer, install flow meters on their Wastewater Discharge lines or Water meters on their private Water supplies. Such meters shall be constructed and installed to the satisfaction of the Engineer and at the expense of the User.

31. TAMPERING WITH SEWERS

No Person shall maliciously, willfully, or negligently break, damage, destroy, uncover, deface, or tamper with any Sewer or its components.

32. RESPONSIBILITY TO REPAIR DAMAGE

- (1) In the event any Building Sewer is stopped or otherwise damaged, and the Owner fails to take the necessary steps to clear the stoppage or repair the damage, the Engineer may take all necessary steps to unstop the Building Sewer drain or repair the damage at the expense of the Owner. Such expense shall be a charge for Work done or services provided to lands and improvements under the provisions of the *Community Charter*, and are a charge or lien on the lands of the Owner which may be collected in the same manner and with the same remedies as ordinary property taxes.
- (2) In the event any Service Connection is stopped or damaged, the Owner shall immediately notify the Engineer, who may take all necessary steps to clear the stoppage or repair the damage at the expense of the Owner. Such expense shall be a charge for Work done or services provided to lands and improvements under the provisions of the *Community Charter*, and are a charge or lien on the lands of the Owner, which may be collected in the same manner and with the same remedies as ordinary property taxes.
- (3) Where there exists a possibility that a Prohibited Waste or a Restricted Waste may be discharged into a Sewer from any Premises, the Engineer may cause a clean-up of the Prohibited Waste or Restricted Waste to be carried out at the cost of the Owner(s) of the Premises.

33. DISTRICT NOT LIABLE FOR FAILURE OF SEWER

The District shall not be liable to any Person for the failure of the Sewer system, or any part or portion, or for any damage or injury caused to Persons or property arising from a malfunction or failure of the Sewer system, whether caused by alterations, repairs, accident or damage to the Sewer, or by any other reason, and whether such failure or malfunction arises from the negligence of any Person in the employ of the District or other Person, or through natural deterioration or obsolescence of the Sewer, or otherwise.

34. PENALTIES

Every Person, who violates any provision of this Bylaw, or a permit, approval, or authorization granted under this Bylaw, or who suffers or permits any act or thing to be done in contravention of this Bylaw, or who neglects to do or refrains from doing anything required to be done under the provisions of this Bylaw, shall be guilty of an offence and liable, upon conviction, to a fine not exceeding \$10,000 and other penalty(s) imposed under the Offence Act, in addition to any applicable damages, direct and indirect clean-up costs or other charges, and where an offence continues for more than one day, each day that the offence continues shall constitute a separate offence. Nothing in this Bylaw shall limit the District from using any other remedy that would otherwise be available to the District at law.

35. GENERAL

- (1) Nothing in this Bylaw shall be interpreted as relieving a Person discharging Waste from complying with all federal, provincial and local government Enactments governing the Discharge of Waste into Sewers.
- (2) Where the Engineer has authority to direct that a matter or thing be done by a Person, the Engineer may also direct that, if the Person fails to take the required action, the matter or thing will be done by the District at the expense of the Person in default and the costs recovered from that Person as a debt.
- (3) The Schedules attached to this Bylaw shall be deemed to be an integral part of this Bylaw.

36. REPEAL

Bylaw No. 1849-1989, cited as “District of Mission Sewer Bylaw No. 1849-1989” is hereby repealed.

37. EFFECTIVE DATE

This Bylaw shall take effect on the date of adoption.

READ A FIRST TIME this 1st day of June, 2009

READ A SECOND TIME this 1st day of June, 2009

READ A THIRD TIME this 1st day of June, 2009

ADOPTED this 15th day of June, 2009

(original signed by James Atebe)
JAMES ATEBE, MAYOR

(original signed by Kelly Ridley)
KELLY RIDLEY, DEPUTY DIRECTOR
OF CORPORATE ADMINISTRATION

SCHEDULE “A” - DEFINITIONS

The following words and phrases when used in this Bylaw shall have the meanings set forth below, whether appearing in capital or lowercase form.

“**Air**” means the atmosphere but, except in a Sewer or a Wastewater Treatment System or as the context may otherwise require, does not include the atmosphere inside a constructed enclosure that is not open to the weather.

“**Air Contaminant**” means any Substance or odour whether gaseous, liquid, solid or a combination that is emitted into the air and that:

- (a) injures or is capable of injuring the health or safety of a person;
- (b) injures or is capable of injuring property or any life form;
- (c) interferes or is capable of interfering with visibility;
- (d) interferes or is capable of interfering with the normal conduct of business;
- (e) causes or is capable of causing material physical discomfort to a person; or
- (f) damages or is capable of damaging the environment.

“**Air Contaminant Waste**” shall have the meaning ascribed to it in Schedule “E” of this Bylaw.

“**Application**” means a request for one of the following:

- (a) sewer connection;
- (b) sewer reconnection;
- (c) a Wastewater Discharge Permit;
- (d) to amend, add or delete a term or condition of a Wastewater Discharge Permit;
- (e) to change the activity that is the subject of a Wastewater Discharge Permit; or
- (f) to renew a Wastewater Discharge Permit.

“**Biochemical Oxygen Demand**” (BOD) means the quantity of oxygen utilized in the biochemical oxidation of organic Substances under standard laboratory procedures in five days at 20 degrees Celsius expressed in milligrams per litre, as determined by the appropriate procedure in *Standard Methods*.

“**Biomedical Waste**” shall have the meaning ascribed to it in Schedule “E” of this Bylaw.

“**Biosolids**” means stabilized Wastewater Sludge resulting from a local government Wastewater treatment process which has been sufficiently treated to reduce pathogen densities and vector attraction to allow the Sludge to be beneficially recycled in accordance with the requirements of the provincial *Organic Matter Recycling Regulation*.

“**Building Sewer**” means the Sewer pipe extending from the property line of the property concerned or from the easement line where the Common Sewer is located in an easement, through the property to the building situated on, and joining the Service Connection to the plumbing system at the building.

“Certified Amalgam Separator” means any Amalgam Separator that is certified in accordance with ISO Standard ISO/FDIS 11143: (1999) for “Dental equipment – Amalgam Separators” or its amendments as established by the International Organization for Standardization.

“Chemical Recovery Cartridge” means a cartridge filled with steel wool, iron mesh, iron particles or iron-impregnated resin capable of removing silver from silver-bearing Waste through the principle of metallic replacement.

“Chlorinated Phenols” means the chlorinated derivatives of Phenols specified in Schedule "F" and as determined by the appropriate procedure described in *Standard Methods* or in procedures authorized by the Engineer.

“Code of Practice” means a regulatory document developed by the District which contains mandatory Sanitary Sewer Discharge standards for specific industrial, institutional or commercial operations including, without limitation minimum Waste treatment, equipment maintenance and record keeping requirements for various operations.

“Collecting Container” means the part of a Certified Amalgam Separator designed for retention of separated Amalgam Waste for the purpose of disposal.

“Common Sewer” means any Sewer, Sewer system or portion thereof used, or intended to be used, for public use and under the control of the District.

“Composite Sample” means a sample of Waste which is composed of equivalent portions of a specified number of Grab Samples collected manually or automatically at the same sampling point, at specified times or flow intervals during a specified sampling period.

“Condensed Water” means Water which is produced through the process of condensation and includes condensate drainage from refrigeration equipment, air conditioning equipment and steam heating systems.

“Contaminant” means any Substance whether dissolved or suspended, or any Wastewater quality parameter that, when present above a certain concentration in Wastewater:

- (a) injures or is capable of injuring the health or safety of a person;
- (b) injures or is capable of injuring property or any life form;
- (c) interferes or is capable of interfering with the proper operation of a sewer or sewage facility;
- (d) causes or is capable of causing material physical discomfort to a person; or
- (e) damages or is capable of damaging the environment.

“Cooling Water” means Water obtained from a domestic Water supply, or other fresh Water source, which is used in an industrial, institutional or commercial cooling process and to which no Contaminant has been added or is present.

“Corrosive Waste” shall have the meaning ascribed to it in Schedule “E” of this Bylaw.

“Council” means the District Council of the District of Mission.

“Cumulative Flow” means the total flow in cubic metres over a known period of time.

“Cumulative Flow Meter” means a device used for measuring Cumulative Flow.

“Dental Amalgam” means a dental filling material consisting of an amalgam of mercury, silver and other materials such as copper, tin or zinc.

“Dental Operation” means any operation that carries out dental care, dental hygiene or dental laboratory activities which produces liquid Waste containing mercury or silver and which is required to operate under the Code of Practice set out in Schedule “J”.

“Discharge” means to directly or indirectly introduce a Substance into a Sewer or Wastewater Treatment System by spilling, disposing, abandoning, depositing, leaking, seeping, pouring, draining, emptying or by any other means.

“Discharging Operation” means an industrial, commercial, institutional or other undertaking required to operate under a Code of Practice established as part of this Bylaw.

“District” means the District of Mission.

“Domestic Waste” means liquid Waste:

- (a) from the non-commercial preparation, cooking, and handling of food; or
- (b) containing human excrement and similar matter from the sanitary conveniences of dwellings, commercial buildings, industrial facilities, and institutions.

“Electrolytic Recovery” means a method of recovering silver from silver-bearing liquid Waste by passing direct electrical current between electrodes suspended in Waste.

“Enactment” means any applicable act, regulation, bylaw, order or authorization, by a federal, provincial, regional or municipal government or their authorized representatives.

“Engineer” means the Director of Engineering and Public Works of the District of Mission or any person authorized by the Director of Engineering and Public Works to act on his or her behalf to administer or enforce the provisions of this Bylaw.

“Environmental Management Act” means the British Columbia *Environmental Management Act*.

“Food Waste” shall have the meaning ascribed to it in Schedule “E” of this Bylaw.

“Fixture” means a receptacle, appliance, apparatus or other device that Discharges Wastewater and includes floor drains.

“Flammable or Explosive Waste” shall have the meaning ascribed to it in Schedule “E” of this Bylaw.

“Flow Control Fitting” means a device used to limit the flow of Water into a Wet Vacuum System to a rate which does not exceed the maximum inlet flow rate of a Certified Amalgam Separator installed downstream.

“Full Mass Loading” means the total mass of a Substance in the Wastewater discharged to the Sanitary Sewer over a given time interval usually expressed in kg/d

“Garbage” means solid Waste from the domestic and commercial preparation, cooking, handling, storage, sale, and dispensing of food.

“Garbage Compactor” means a mechanical device used to compress Garbage to reduce volume.

“Grab Sample” means a sample of Waste collected at a particular time and place.

“Halogenated Solvent” means any liquid organic compound containing chlorine, fluorine, bromine or iodine.

“Hazardous Waste” shall have the meaning ascribed to it in the *Environmental Management Act* and in Schedule “E” of this Bylaw.

“Hazardous Waste Regulation” means the provincial *Hazardous Waste Regulation*, enacted pursuant to the *Environmental Management Act*.

“Hazardous Waste Regulation Leachate Quality Standards” means the Contaminant concentrations for leachate as set out in Table 1, Schedule 4 of the *Hazardous Waste Regulation*.

“High Temperature Waste” shall have the meaning ascribed to it in Schedule “E” of this Bylaw.

“Holding Tank” means a Holding Tank lawfully installed on real property in the District of Mission to hold sewage.

“Impervious” means a material having permeability not greater than 1×10^{-7} cm per second when subjected to a head of 0.305 m of water where permeability is not affected by the liquid it is meant to contain.

“Industrial User” means any Person who Discharges, causes or permits the Discharge of Non-Domestic Waste into a Sanitary Sewer.

“Inspection Chamber” means a device installed on a Service Connection in accordance with District’s Subdivision Control Bylaw.

“Inspector” means a building inspector of the District of Mission, appointed by Council.

“Interceptor” means a receptacle approved by the Engineer and designed to prevent Oil and Grease, sand or other matter from passing from the source thereof into any Sewer.

“ISO Standard” means standard ISO/FDIS 11143: (1999) for “Dental equipment – Amalgam separators” or its amendments as established by the International Organization for Standardization.

“Kg/d” means kilograms per day.

“Large Industrial User” means any Industrial User whose Wastewater volume Discharge is normally greater than 30,000 cubic metres per year.

“Lower Explosive Limit” (LEL) means the lowest concentration of a flammable gas or vapour at ordinary ambient temperatures, (% by volume in air) in which explosion can occur upon ignition in a confined area.

“Metering Pump” means a pump designed to deliver Waste at a calibrated flow rate.

“mg/L” means milligrams per litre.

“Miscellaneous Prohibited Waste” shall have the meaning ascribed to it in Schedule “E” of this Bylaw.

“Miscellaneous Restricted Waste” shall have the meaning ascribed to it in Schedule “F” of this Bylaw.

“Monitoring Point” means an access point to a Sewer, private drainage system or other Sewer system for the purpose of:

- (a) measuring the rate of flow or volume of Wastewater being discharged from a Premises;
- (b) collecting representative samples of Wastewater being discharged from a Premises.

“Natural Outlet” means any outlet into a Watercourse, pond, ditch, lake, bay, ocean, or other body of surface Water or into groundwater.

“Non-Domestic Waste” means all Waste except Domestic Waste, Storm Water and Uncontaminated Water.

“Obstructive Waste” shall have the meaning ascribed to it in Schedule “E” of this Bylaw.

“Off-Site Waste Management” means removal of Waste to a facility licensed by a provincial or federal government for treatment and disposal in accordance with applicable Enactments.

“Oil and Grease” means an organic Substance or Substances recoverable by the partition-gravimetric procedure set out in *Standard Methods* or a procedure authorized by the Engineer and includes, but is not limited to, hydrocarbons, esters, fats, oils, waxes and high molecular weight carboxylic acids.

“Oil and Grease (Hydrocarbons)” means an organic Substance or Substances recoverable by the partition-gravimetric silica gel absorption procedure set out in *Standard Methods* or a procedure authorized by the Engineer and includes, but is not limited to, non-polar petroleum hydrocarbons.

“Operator” means the Person who owns or otherwise has a right to operate a Discharging Operation or any Person who has been authorized by such Person to act as their agent.

“Owner” shall have the meaning assigned to it under the *Community Charter* and includes the authorized agent of the Owner.

“Person” means an individual, firm, company, association, society, partnership, corporation, local government, institution or other similar organization, agency or group as the context requires.

“pH” means the logarithm of the reciprocal of the concentration of hydrogen ions in grams per litre of solution, as determined by the appropriate procedure in *Standard Methods*.

“Phenols” means the hydroxy derivatives of aromatic hydrocarbons as determined by the appropriate procedure described in *Standard Methods*.

“Photo Imaging Operation” means any operation which carries out photographic film processing or printing that uses silver in image forming or creates Waste containing silver and which is required to operate under the Code of Practice set out in Schedule “K”.

“Polynuclear Aromatic Hydrocarbons” (PAH), also known as polycyclic aromatic hydrocarbons, means the aromatic hydrocarbons specified in Schedule "F" as determined by the appropriate procedure described in *Standard Methods* or in procedures authorized by the Engineer.

“Pool” means any Water receptacle used for swimming or as a bath or hot tub designed to accommodate more than one bather at a time or designed for decorative purposes.

“Premises” means any land or building or both or any part thereof.

“Pretreatment” means applications of physical, chemical, and biological processes to reduce the amount of Contaminants in, or alter the nature of, the Contaminant properties in Wastewater prior to discharging such Wastewater into the Wastewater Treatment System.

“Prohibited Waste” means a Hazardous Waste, Radioactive Waste, Air Contaminant Waste, Flammable or Explosive Waste, Obstructive Waste, Corrosive Waste, High Temperature Waste, Food Waste, Biomedical Waste and Miscellaneous Prohibited Waste, all as described in Schedule “E” of this Bylaw

“Radioactive Waste” shall have the meaning ascribed to it in Schedule “E” of this Bylaw.

“Recreational Vehicle Waste” means Domestic Waste accumulated in a holding tank in a trailer, camper, transportable housing unit, bus or aircraft.

“Residential Property” means a property which is used primarily for the purpose of residence by persons on a permanent, temporary or seasonal basis.

“Restricted Waste” means a Specified Waste, ph Waste, BOD and TSS Waste, Wash Water Waste, Dyes and Colouring Material and Miscellaneous Restricted Waste all as described in Schedule “F” of this Bylaw.

“Sani-Dump” means a facility allowing the Discharge of Recreational Vehicle Waste directly or indirectly to a Sewer or a Wastewater Treatment System.

“Sanitary Sewer” means a Sewer which carries Domestic and Non-Domestic Wastes, but is not intended to carry Storm Water or Cooling Water.

“Service Connection” means the Sewer pipe extending from the Common Sewer to the property line of the property being served or about to be served, or where the Common Sewer is located in an easement through the property, means the Sewer pipe extending from the Common Sewer to the easement line.

“Sewer” means all pipes, conduits, drains and other equipment and facilities, owned or otherwise under the control or jurisdiction of the District for collecting, pumping and transporting Wastewater either to a Wastewater Treatment System, or otherwise, and includes, but is not limited to, all such pipes, conduits, drains and other equipment and facilities which connect with those of the District, and includes a Storm Sewer and Sanitary Sewer.

“Sharps” means hypodermic needles, hypodermic syringes, blades, broken glass and any devices, instruments or other objects which have acute rigid corners, edges or protuberances.

“Silver Recovery System” means the combination of holding tanks, metering pumps, plumbing and silver recovery technology which is used to treat liquid Waste containing silver produced by Photo Imaging Operations.

“Silver Recovery Technology” means equipment that is designed to recover silver from liquid Waste produced by Photo Imaging Operations using such methods as metallic replacement, electrolysis, ion exchange or chemical precipitation including: electrolytic units, chemical recovery cartridges, chemical precipitation units and ion exchange units.

“Silver Test Kit” means a test kit that is capable of measuring the silver concentration in liquid Waste at a minimum level of 100 mg/L.

“Silver Test Paper” means test paper that is capable of measuring the silver concentration in liquid Waste at a minimum concentration of 500 mg/L.

“Sludge” means Wastewater containing more than 0.5% total solids.

“Solvent” means a hydrocarbon-based liquid used to clean equipment or to dissolve other Substances.

“Spill Containment” means Spill Containment as required under the provincial *Hazardous Waste Regulation* enacted pursuant to the *Environmental Management Act*.

“Spill Reporting Regulation” means the *Spill Reporting Regulation* enacted pursuant to the *Environmental Management Act*.

“Spill Response Plan” means a written plan developed for the Operator to respond to any spills of Prohibited Waste or Restricted Waste that defines the rules and responsibilities for a spill response, and includes contact names and numbers for the appropriate agencies and a list of all spill response equipment.

“Standard Methods” means the latest edition of *Standard Methods for the Examination of Water and Wastewater* jointly prepared and published from time to time by the American Public Health Association, American Water Works Association and the Water Environment Federation.

“Storm Sewer” or **“Storm Drain”** means a Common Sewer which carries Storm Water and surface Water, but excludes Domestic Waste and Non-Domestic Waste containing Contaminants.

“Storm Water” means any flow occurring during, or immediately following, any form of natural precipitation and resulting therefrom.

“Substance” includes any solid, liquid or gas.

“Suspended Solids” means the total suspended matter that floats on the surface of, or is suspended in, Water, Wastewater, or other liquids and which is removable by laboratory filtering, as determined by the appropriate procedure in *Standard Methods*.

“Transportation of Dangerous Goods Regulations” means the *Transportation of Dangerous Goods Regulations SOR/2001-266* enacted pursuant to the *Transportation of Dangerous Goods Act* of Canada.

“Treatment Works” means any Works or procedures specified in a Code of Practice or a Wastewater Discharge Permit designed for the treatment of Waste.

“Trucked Liquid Waste” means any Waste that is collected and transported off-site by means other than Discharge to a Sanitary Sewer, including, but not limited to, septic tank Waste, Oil and Grease from Interceptors, and other Sludges of organic origin.

“Uncontaminated Water” means Water not containing any Contaminants restricted or prohibited by the effluent standards in effect, or Water the Discharge of which will not cause any violation of receiving Water quality standards.

“User” means any Person who Discharges, causes, or permits the Discharge of Wastewater into a Sewer.

“Vehicle Wash Operation” means the washing of the exterior of vehicles by any commercial, industrial or institutional operation or by a public authority.

“Waste” means any Substance whether gaseous, liquid or solid, that is, or is intended to be, discharged or discarded, directly or indirectly, to a Sewer.

“Wastewater” means liquid and water-carried Domestic and Non-Domestic Waste from dwellings, commercial buildings, industrial facilities, and institutions, together with any groundwater, surface Water, and Storm Water that may be present, whether treated or untreated, which is discharged into, or permitted to enter, the Sanitary Sewer.

“Wastewater Discharge Permit” means a Wastewater Discharge Permit issued by the Engineer under this Bylaw for Discharges to the Sanitary Sewer.

“Wastewater Sludge” means the removed material resulting from chemical treatment, coagulation, flocculation, sedimentation, flotation or biological oxidation of Wastewater.

“Wastewater Treatment System” means any devices, facilities, structures, equipment, or works owned or used by the District for the purpose of the transmission, storage, treatment, recycling, and reclamation of Domestic and Non-Domestic Waste, or necessary to recycle or reuse Water at the most economical cost over the estimated life of the Wastewater system, including but not limited to intercepting Sewers, outfall Sewers, sewage collection systems, pumping, power, and other equipment and their appurtenances, extensions, improvements, remodelling, additions, and alterations, including the J.A.M.E.S. Treatment Plant, 5959 Gladwin Road, Abbotsford.

“Water” includes seawater, surface Water, groundwater and ice.

“Watercourse” means:

- (a) a river, stream, creek, waterway, lagoon, lake, spring, swamp, marsh or other natural body of Water; or
- (b) a canal, ditch, reservoir or other man-made surface feature;

whether it contains or conveys Water continuously or intermittently.

“Wet Vacuum System” means a dental operatory vacuum system that uses Water, which is spun and thrown out within the pump mechanism, to create a vacuum.

“Works” includes:

- (a) a drain, ditch, Sewer or Waste disposal system including a Wastewater Treatment System, pumping station or outfall;
- (b) a device, equipment, land or a structure that:
 - (i) measures, handles, transports, stores, treats or destroys Waste or a Contaminant; or
 - (ii) introduces Waste or a Contaminant into the environment;
- (c) an installation, plant, machinery, equipment, land; or a process that causes or may cause a release of a Contaminant into the environment, or is designed or used to

measure or control the introduction of Waste into the environment, or to measure or control a Contaminant;

- (d) an installation, plant, machinery, equipment, land or a process that monitors or cleans up a Contaminant or Waste.

SCHEDULE "B" – APPLICATION FOR SEWER SERVICE



APPLICATION / PERMIT FOR MUNICIPAL SERVICES

Date: _____

Receipt No. _____

Property Address:	
Legal:	
P.I.D. No.:	
Roll Number:	
Owner:	Telephone No.: ()
Address:	
Contractor:	Telephone No.: ()
Address:	

DESCRIPTION	SIZE	SERVICE FEE	ADMINISTRATION FEE	INSPECTION FEE
WATER	mm	\$	\$	\$
SANITARY	mm	\$	\$	\$
STORM	mm	\$	\$	\$
ACCESS	mm	\$	\$	\$

***** Note**

- Inclusion of property to applicable specified areas required Yes _____ No _____
- Are Latecomer Charges applicable Yes _____ No _____
- Are Offsite Works applicable Yes _____ No _____

The granting of a permit shall not relieve the owner from full responsibility for carrying out the construction, or having the construction carried out, in accordance with the requirements of all applicable Bylaws, any applicable Federal or Provincial Act or regulation, and any covenant, easement or right of way registered against the real property.

Signature of Owner/Agent: _____

Print Name: _____

P.O. Box 20, 8645 Stave Lake Street, Mission, B.C. V2V 4L9
 Phone (604) 820-3736 Fax (604) 826-7951 & (604) 820-3715
 Web Site: www.mission.ca E-mail: info@mission.ca

SCHEDULE “C” - SEWER CONNECTION FEES

1. SANITARY SEWER CONNECTION

(a) The connection fees shall be:

Depth of Main	First meter or less		Per meter beyond 1 meter	
	2010	2011	2010	2011
0 to 1 meter	\$545.00	\$560.00	\$158.50	\$163.50
1.01 to 2 meters	\$765.00	\$788.00	\$191.00	\$196.75
2.01 to 3 meters	\$983.50	\$1,013.00	\$300.50	\$309.50
3.01 to 4 meters	\$1,202.00	\$1,238.00	\$541.00	\$557.25
More than 4 meters or larger than 150mm	At Cost		At Cost	

(b) (i) The administration fee for the initial application for a connection, irrespective of diameter, for 2011 shall be \$50.00;

(ii) The administration fee to complete the application for a connection, irrespective of diameter, for 2011 shall be \$134.75, for a total of \$184.75.

(c) The Sanitary Sewer Connection Inspection fee shall be:

2010: \$71.50 **2011:** \$73.65

(d) The Sanitary Sewer Pre-Service Connection Fee shall be the same as the Sanitary Sewer Service Connection Fee with a 20% reduction to applicable costs.

2. STORM SEWER CONNECTION

(a) The connection fees shall be:

Depth of Main	First meter or less		Per meter beyond 1 meter	
	2010	2011	2010	2011
0 to 1 meter	\$545.00	\$560.00	\$158.50	\$163.50
1.01 to 2 meters	\$765.00	\$788.50	\$191.00	\$196.75
2.01 to 3 meters	\$983.50	\$1,013.00	\$300.50	\$309.50
3.01 to 4 meters	\$1,202.00	\$1,238.00	\$541.00	\$557.25
More than 4 meters or larger than 150mm	At Cost		At Cost	

(b) (i) The administration fee for the initial application for a connection, irrespective of diameter, for 2011 shall be \$50.00;

SCHEDULE “C” - SEWER CONNECTION FEES cont

(ii) The administration fee to complete the application for a connection, irrespective of diameter, for 2011 shall be \$134.75, for a total of \$184.75.

(c) The Storm Sewer Connection Inspection fee shall be:

2010: \$71.50 **2011:** \$73.65

(d) The Storm Sewer Pre-Service Connection Fee shall be the same as the Storm Sewer Service Connection Fee with a 20% reduction to applicable costs.

3. EXTRA LENGTH AND DEEP SERVICE CONNECTIONS

For any service connection, whether storm or sanitary, which exceeds twenty (20) meters in length, or which has a depth in excess of four (4) meters over more than half its length, the fee will be the actual cost of construction with a deposit at the time of application in the amount equal to the estimated cost of the work, as determined by the Engineer.

4. DISCONNECTION OF THE SERVICE

	2010	2011
Sanitary Sewer Disconnection (at the main by municipal crews)	\$546.00	\$562.25
Capping the service at the property line by municipal crews	\$458.50	\$472.00
Capping the service at property line by municipal crews in conjunction with capping of either a storm sewer or water service capped	\$516.25	\$531.75
Capping the service at property line by municipal crews in conjunction with capping of both of storm sewer and water services	\$574.25	\$591.50
Capping the service at property line by owner under direct municipal inspection – each service	\$72.75	\$75.00
Storm Sewer Disconnection (at the main by municipal crews)	\$546.00	\$562.25
Capping the service at the property line by municipal crews	\$458.50	\$472.00
Capping the service at property line by municipal crews in conjunction with capping of either a storm sewer or water service capped	\$516.25	\$531.75
Capping the service at property line by municipal crews in conjunction with capping of both of storm sewer and water services	\$574.25	\$591.50
Capping the service at property line by owner under direct municipal inspection – each service	\$72.75	\$75.00

SCHEDULE “C” - SEWER CONNECTION FEES cont

5. BUILDING SEWER INSTALLED BY DISTRICT

Where an Owner fails to comply with an order to connect to the Sewer connection and the work is directed to be done by the District, the entire cost of the work plus a supervision and overhead charge not exceeding 20% of the total amount for labour, equipment and materials will be charged to the Owner.

SCHEDULE “D” – SANITARY SEWER USER RATES & FEES

VOLUME CALCULATION

1. For customers with a Sanitary Sewer meter, volume calculations shall be determined based upon 100% of the volume measured by the Sanitary Sewer meter.
2. For customers without a Sanitary Sewer meter, but with a Water meter on District supplied Water, volume calculations shall be determined based upon 90% of the volume measured by the Water meter.
3. Volume calculations for Large Industrial Users and customers, with Sanitary Sewer meters or Water meters on private wells, shall be calculated and invoiced on a bi-annual basis.

SANITARY SEWER USE RATES

All sanitary sewer use rates shall be paid by the User in accordance with this Bylaw and Sewer User Rates and Charges Bylaw 1922-1989, where applicable. The following table specifies sewer use rates for those discharges to sanitary sewer that are metered.

Non-Residential Users:

1 – 10,000 m ³	\$0.62/m ³
10,001 – 100,000 m ³	\$0.57/m ³
100,001 + m ³	\$0.49 m ³
Residential Users and Multiple Use with Residential Users	\$0.84/m ³

BOD AND TSS WASTE CHARGES

Biochemical Oxygen Demand (BOD) and Total Suspended Solids (TSS) charges are calculated based on Full Mass Loading.

<u>Analyte</u>	<u>Rate</u>
Biochemical Oxygen Demand (BOD)	\$0.42/kg/month
Total Suspended Solids (TSS)	\$0.47/kg/month

DISPOSAL OF TRUCKED LIQUID WASTE AT THE J.A.M.E.S. TREATMENT PLANT

Per 1,000 litres.....\$29.00

WASTEWATER DISCHARGE PERMIT FEES

1. Application Fee

There is no Application fee for a Person to apply for a Wastewater Discharge Permit.

2. Amendment Fee

- (1) Each time the holder of a Wastewater Discharge Permit requests an amendment to the Wastewater Discharge Permit held by him or her, he or she shall pay an amendment fee of \$500. Completion of an Application form as provided in Schedule "G" is required. The amendment fee is payable upon issuance of the amended permit.
- (2) No amendment fee will be charged for Wastewater Discharge Permit amendments that have been initiated by the District of Mission.

WASTEWATER DISCHARGE PERMIT FEES FOR GROUNDWATER REMEDIATION SITES

1. Application Fee

- (1) A Person who applies for a Wastewater Discharge Permit for groundwater remediation sites shall pay an Application fee of \$1500.
- (2) The Application fee is payable upon submission to the Engineer of a completed Application form as provided in Schedule "H".
- (3) The District will not process an Application for a Wastewater Discharge Permit until the Application fee has been paid.
- (4) The Application fee will not be refunded if the Engineer does not issue a Wastewater Discharge Permit for the groundwater remediation site.

2. Amendment Fee

- (1) Each time the holder of a Wastewater Discharge Permit for groundwater remediation sites requests an amendment to the Wastewater Discharge Permit held by him or her, he or she shall pay an amendment fee of \$500. Completion of an Application form as provided in Schedule "H" is required. The amendment fee is payable upon issuance of the amended permit.
- (2) No amendment fee will be charged for Wastewater Discharge Permit amendments that have been initiated by the District of Mission.

SCHEDULE "E" - PROHIBITED WASTE

Prohibited Waste means:

1. Hazardous Waste

Hazardous Waste as defined by the *Environmental Management Act*.

2. Radioactive Waste

Any Radioactive Wastes or isotopes of such half-life or concentration that they do not comply with regulations or orders issued by the Atomic Energy Control Board of Canada, or other authority having jurisdiction and control over their use, and which will or may cause damage or hazards to the Sanitary Sewer or Wastewater Treatment System, or personnel operating the system.

3. Air Contaminant Waste

Any Waste other than Sanitary Waste which, by itself or in combination with another Substance, is capable of creating, causing or introducing an Air Contaminant outside any Sanitary Sewer or Wastewater Treatment System or is capable of creating, causing or introducing an Air Contaminant within any Sanitary Sewer or Wastewater Treatment System which would create a public nuisance or hazard to life, or are or may be sufficient to prevent safe entry by authorized personnel.

4. Flammable or Explosive Waste

Any Waste, which by itself or in combination with another Substance, is capable of causing or contributing to an explosion or supporting combustion in any Sanitary Sewer or Wastewater Treatment System including, but not limited to gasoline, naphtha, propane, diesel, fuel oil, kerosene or alcohol. At no time shall two successive readings on an explosion hazard meter, at the point of Discharge into any Sanitary Sewer, be more than 5% nor any single reading over 10% of the Lower Explosive Limit (LEL) of the meter.

5. Obstructive Waste

Any Waste which by itself or in combination with another Substance, is capable of obstructing the flow of, or interfering with, the operation, performance or maintenance of any Sanitary Sewer or Wastewater Treatment System including, but not limited to: ashes, cinders, earth, sand, mud, straw, sweepings, gardening or agricultural waste, insoluble shavings, chemicals, paint, metal, glass, Sharps, rags, cloth, tar, asphalt, creosote, cement-based products, plastic, wood, feathers, animal paunch contents, offal, blood, bones, meat trimmings and wastes, fish or fowl head, shrimp, crab or clam shells, entrails, lard, tallow, baking dough, chemical residues, canner waste bulk solids, hair and fleshings, spent grain and hops, whole or ground paper dishes and cups, whole or ground plastic dishes and cups, whole or ground food and beverage containers, unground garbage, or paper and brewery waste.

6. Corrosive Waste

Any Waste with corrosive properties which, by itself or in combination with any other Substance, may cause damage to any Sanitary Sewer or Wastewater Treatment System or which may prevent safe entry by authorized personnel.

7. High Temperature Waste

- (a) Any Waste which, by itself or in combination with another Substance, will create heat in amounts that interfere with, or are capable of interfering with, the operation and maintenance of the Sanitary Sewer or Wastewater Treatment System or with the treatment of Waste;
- (b) Any Waste which will raise the temperature of Waste entering any Sanitary Sewer to 40°C (104°F) or more;
- (c) Any Non-domestic Waste with a temperature of 54°C (129°F) or more.

8. Food Wastes

Any Waste from cooking and handling of food that, at the point of Discharge into a Sanitary Sewer; contains particles larger than 5 mm in any direction.

9. Biomedical Waste

Any of the following categories of Biomedical Waste: human anatomical Waste, animal Waste, untreated microbiology laboratory Waste, clinical and laboratory Waste Sharps and untreated human blood and body fluids known to contain viruses and agents listed in "Risk Group 4" as defined in the Transportation of Dangerous Goods Regulations.

10. Miscellaneous Prohibited Waste

Any Waste, other than Domestic Waste, which by itself or in combination with another substance:

- (a) constitutes or may constitute a significant health or safety hazard to any person;
- (b) may interfere with any Sanitary Sewer or Wastewater Treatment System;

SCHEDULE "E" - PROHIBITED WASTE cont

- (c) may cause a Discharge from a Wastewater Treatment System to contravene any requirements by or under any permit issued under the *Environmental Management Act* or any other act, or any other law or regulation governing the quality of the Discharge, or may cause the Discharge to result in a hazard to people, animals, property or vegetation;
- (d) may cause Biosolids to fail criteria for beneficial land application in British Columbia as set out in the *Organic Matter Recycling Regulation* (British Columbia) deposited February 2002.

SCHEDULE "F" - RESTRICTED WASTE

Restricted Waste means:

1. Specified Waste

Any Waste which, at the point of Discharge into a Sanitary Sewer, contains any Contaminant at a concentration in excess of the limits set out below. All concentrations are expressed as total concentrations which includes all forms of the Contaminant, whether dissolved or undissolved. The concentration limits apply to both Grab and Composite Samples. Contaminant definitions and methods of analysis are outlined in *Standard Methods* or methods specified by the Engineer.

Any of the Contaminants listed below in tables a), b) or c) that are present in a Waste at dissolved concentrations in excess of the Hazardous Waste Regulation Leachate Quality Standards will qualify that Waste, regardless of the sampling method used, as a Hazardous Waste.

a) CONVENTIONAL CONTAMINANTS [mg/L]	
Total Oil and Grease ¹	150

Note: ¹ Total Oil and Grease includes Oil and Grease (hydrocarbons) (see table (b))

b) ORGANIC CONTAMINANTS [mg/L]	
Benzene	0.1
Total BETX ²	1.0
Polynuclear Aromatic Hydrocarbons (PAH) ³	0.05
Phenols	1
Chlorinated Phenols ⁴	0.05
Oil and Grease (hydrocarbons)	15
Tetrachloroethylene	0.05

Notes: ² Total BETX include:

- Benzene
- Ethylbenzene
- Toluene
- Xylenes

³ Polynuclear Aromatic Hydrocarbons (PAH) include:

Naphthalene	Benzo(a)anthracene
Acenaphthylene	Chrysene
Acenaphthene	Benzo(b)fluoranthene
Fluorene	Benzo(k)fluoranthene
Phenanthrene	Benzo(a)pyrene
Anthracene	Dibenzo(a,h)anthracene
Fluoranthene	Indeno(1,2,3-cd)pyrene
Pyrene	Benzo(g,h,i)perylene

SCHEDULE "F" - RESTRICTED WASTE cont

⁴ Chlorinated Phenols include:

Tetrachlorophenols (2,3,4,5-, 2,3,4,6-, 2,3,5,6-)

Pentachlorophenol

(c) INORGANIC CONTAMINANTS [mg/L]	
Aluminum (Al)	50.0
Arsenic (As)	1.0
Boron (B)	50.0
Cadmium (Cd)	0.2
Chromium (Cr)	4.0
Cobalt (Co)	5.0
Copper (Cu)	2.0
Iron (Fe)	10.0
Lead (Pb)	1.0
Manganese (Mn)	5.0
Mercury (Hg)	0.05
Molybdenum (Mo)	1.0
Nickel (Ni)	2.0
Selenium (Se)	1.0
Silver (Ag)	1.0
Zinc (Zn)	3.0
Cyanide (CN)	1.0
Sulphate (SO ₄)	1500.0
Sulphide (S)	1.0

2. pH Waste

Any Waste or Wastewater which, at the point of Discharge into a Sanitary Sewer, has a pH lower than 5.5 or higher than 9.5, or with any other corrosive property that reasonably could be hazardous to structures, equipment, or persons such as, but not limited to, battery or plating acid and Wastes, copper sulphate, chromium salts and compounds, or salt brine.

3. BOD and TSS Waste

Any Waste or Wastewater at the point of Discharge into a Sanitary Sewer that may produce a significant mass loading of BOD and/or TSS at the J.A.M.E.S. Treatment Plant, as determined by the Engineer. Wastewater of unusual strength or character cannot be discharged into a Sanitary Sewer except by special agreement with the User which allows the Wastewater into the Sanitary Sewer and to be specially treated, subject to plant capacity, District approval and payment of user charges, as may be applicable. The applicable charges for BOD and TSS Waste are outlined in Schedule "D".

SCHEDULE "F" - RESTRICTED WASTE cont

4. Wash Water Wastes

Any Waste originating from Water used in washing industrial equipment, machines, or vehicles.

5. Dyes and Colouring Material

Dyes or colouring materials including, but not limited to dye Wastes and vegetable tanning solutions, which may pass through the Wastewater Treatment System and discolour the effluent from the Wastewater Treatment System except where the dye is used by the District as a tracer.

6. Miscellaneous Restricted Waste

Any of the following Wastes as defined in the bylaw:

- (a) concentrations of inert Suspended Solids such as, but not limited to, Fuller's Earth, lime slurries, or lime residue.
- (b) concentrations of dissolved solids such as, but not limited to, sodium chloride, calcium chloride, or sodium sulphate.

SCHEDULE "G" - WASTEWATER DISCHARGE PERMIT APPLICATION

This is an Application for a **Wastewater Discharge Permit** under the following bylaw:

District of Mission Sewer Bylaw No. 5033-2009

General Instructions

- Provide all required information and attachments.
- If you do not have an answer for the requested information, indicate so and explain why.
- Indicate "n/a" if a section does not apply to your Application.
- Use additional pages as required.
- Send the completed Application form and attachments to the following address:

Attn: Source Control Program
Abbotsford/Mission Water & Sewer Services
32315 South Fraser Way
Abbotsford, BC V2T 1W7

Telephone: (604) 853-5485
Facsimile: (604) 557-1457

SCHEDULE "G" - WASTEWATER DISCHARGE PERMIT APPLICATION cont

Application Conditions

In consideration of the granting of this permit, the applicant agrees:

1. To accept and abide by the Terms and Conditions herein.
2. To accept and abide by the District of Mission Sewer Bylaw No. 5033-2009.
3. To provide any additional information on industrial Wastewater Discharge as required by District staff.
4. To cooperate at all times with District staff in the inspection, sampling and study of the industrial Wastewater facilities and Discharges.
5. To ensure that the maximum Discharge rate be less than _____ cubic metres per day and the maximum instantaneous Discharge rate be less than _____ litre per second.
6. To ensure that no other Wastes are discharged into the Sanitary Sewer other than the agreed upon Wastewater.
7. To operate only one industrial Wastewater Discharge point to the Sanitary Sewer under authority granted by this permit.
8. To install a flow meter on the Discharge pipe entering the Sanitary Sewer. To submit to District staff confirmation of the meter accuracy, prior to discharging any Waste into the Sanitary Sewer. The flow meter must be installed in such a location that is easily accessible to District staff. The monthly readings will be the basis for invoicing volume charges for Sanitary Sewer usage.
9. To have an environmental consultant inspect the Pretreatment equipment on a regular basis to ensure that it remains in good working order. To notify District staff immediately of any malfunction of these works. To notify District staff prior to implementing changes to any process of Works or any condition that may affect the quality or quantity of the Discharge into the Sanitary Sewer.
10. To provide a sample point on the Discharge pipe entering the Sanitary Sewer. The sample point must be provided in such a location that is easily accessible by District staff.

SCHEDULE "G" - WASTEWATER DISCHARGE PERMIT APPLICATION cont

11. To ensure that the Wastewater meets the following criteria (along with all other criteria outlined in the Bylaw):

ANALYTE	MAXIMUM CONCENTRATION
pH Range	5.5 to 9.5
Total Polynuclear Aromatic Hydrocarbons (PAH)	0.05 mg/L
Benzene	0.1 mg/L
Total Benzene/Ethylbenzene/Toluene/Xylenes (BETX)	1.0 mg/L

12. To have the Grab Sample(s) collected for the purpose of this Application be analyzed by a certified laboratory for the following parameters:

- pH
- Total Suspended Solids (TSS)
- Biochemical Oxygen Demand (BOD)
- Total Polynuclear Aromatic Hydrocarbons (PAH)
- Total Benzene/Ethylbenzene/Toluene/Xylenes (BETX)
- Total Metals (ICP scan) including: Aluminum, Arsenic, Boron, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Molybdenum, Nickel, Silver, Zinc
- Total Mercury
- Total Cyanide
- Sulphate
- Sulphide
- Phenols and Chlorinated Phenols

13. To ensure all samples are collected and analyzed within holding times specified by the certified laboratory and that proper sampling techniques are used.

14. To record the sample date(s) and time(s) and submit the analytical results to District staff within 21 days after the date of the sample.

15. To immediately notify the District at 604-853-5485 extension 5663 or 1452 and undertake appropriate remedial actions in the event of an emergency or condition that prevents the continuing operation of any pollution controls Works or procedure designated by these requirements.

SCHEDULE "G" - WASTEWATER DISCHARGE PERMIT APPLICATION cont

16. To pay the District monthly the required Sanitary Sewer Discharge cost based upon the Bylaw rates. In addition, the applicant may be required to contribute a set amount for applicable Development Cost Charges for treatment and trunk Sanitary Sewer. Additional surcharge rates may apply for Biochemical Oxygen Demand or Total Suspended Solids wastes. All costs related to this Wastewater Discharge Permit are to be borne by the applicant.
17. To apply for a revised Wastewater Discharge Permit if any changes in the industrial processes, production, and methods of Wastewater treatment or operations creates a significant change in industrial Wastewater quality.
18. To pay the District quarterly any applicable charges for BOD and TSS Waste, as outlined in the Bylaw under Schedules "D" and "G".

The District of Mission reserves the right to change the conditions of this agreement, or revoke the Wastewater Discharge Permit at any time.

SCHEDULE "G" - WASTEWATER DISCHARGE PERMIT APPLICATION cont

SECTION A: APPLICANT INFORMATION

<u>COMPANY NAME:</u>		

<u>CONTACT PERSON:</u>	_____	<u>TITLE:</u>

<u>TELEPHONE NO:</u>	() - -	<u>FAX:</u>
		() - -
<u>EMERGENCY ACCESS TELEPHONE</u>		
<u>NO:</u>	() - -	
<u>SITE ADDRESS:</u>		
	<i>House No</i>	<i>Street</i>
	_____	_____
	<i>City</i>	<i>Province</i>
	_____	<i>Postal Code</i>
	_____	_____
<u>MAILING ADDRESS:</u>		
	<i>House No</i>	<i>Street</i>
	_____	_____
	<i>City</i>	<i>Province</i>
	_____	<i>Postal Code</i>
	_____	_____

Applicants must attach the results of a corporate registry search, conducted within 30 days of this Applications submission date. The corporate registry search indicates that the applicant business has been registered with the BC Ministry of Finance. Corporate registry searches can be obtained for a nominal fee from:

- BC Online at: <http://www.bconline.gov.bc.ca>
- By visiting the Provincial Courthouse at 800 Hornby Street (small claims desk).
- By mailing your written request, and a cheque for \$10 to Suite 100, 800 Hornby St., Vancouver, B.C., Attn: Cashier. The cheque should be made out to the Ministry of Finance.

SCHEDULE "G" - WASTEWATER DISCHARGE PERMIT APPLICATION cont

WASTEWATER SOURCE DESCRIPTION	CONTINUOUS or BATCH	DAILY VOLUME (m ³)

SECTION C: OPERATING PERIOD & FLOW INFORMATION

Specify the Wastewater Discharge duration and Discharge rates (when process Wastewater is discharged to the Sanitary Sewer). The expected values are the values that are anticipated on a daily base. The maximum values are the highest values that the process will yield. The maximum possible values are the maximum Discharge rates that the Discharge point into the Sanitary Sewer is capable of allowing.

	EXPECTED VALUES	MAXIMUM VALUES	MAX POSSIBLE VALUES
DISCHARGE DURATION	hours/day	hours/day	24 hours/day
	days/week	days/week	7 days/week
	weeks/year	weeks/year	52 weeks/year
DAILY DISCHARGE RATE	m ³ /day	m ³ /day	m ³ /day
INSTANTANEOUS PEAK FLOW RATE	L/second	L/second	L/second

What are the typical months of operation? _____

Does your business generally have uniform Discharge of Water throughout the year? Yes No

If no, assign percentages of peak monthly Wastewater Discharge for each month of operation. 100% designates the months of peak Water Discharge:

January	<input type="text"/> %	April	<input type="text"/> %	July	<input type="text"/> %	October	<input type="text"/> %
February	<input type="text"/> %	May	<input type="text"/> %	August	<input type="text"/> %	November	<input type="text"/> %
March	<input type="text"/> %	June	<input type="text"/> %	September	<input type="text"/> %	December	<input type="text"/> %

SCHEDULE "G" - WASTEWATER DISCHARGE PERMIT APPLICATION cont

What are the typical operating days? _____

Does your business generally have uniform Wastewater Discharge throughout the week and on statutory holidays? Yes No

If no, assign percentages of peak daily Wastewater Discharge for each operating day. 100% designates the days of the week with peak Water Discharge:

Monday % Wednesday % Friday % Sunday %

Tuesday % Thursday % Saturday % Holidays %

What are the typical hours of operation? _____

Does your business generally have uniform Wastewater Discharge throughout the day? Yes No

If no, assign percentages of peak hourly Wastewater Discharge for each six-hour period of operation. 100% designates the hours of the day with peak Water Discharge:

00:00-06:00 % 06:00-12:00 % 12:00-18:00 % 18:00-24:00 %

How does your business reduce operation during non-peak periods? Reduce rate of processing Reduce hours of operation

SECTION D: WASTEWATER TREATMENT

Describe the Wastewater Treatment Works that you are currently using, or proposing to use, to treat individual or combined Wastewater streams prior to Discharge to the Sanitary Sewer. Identify each treatment process on the Schematic Flow Diagram and Site Layout (Attachments A and B).

Please include the following with your Treatment Works description:

- Flow diagram of your treatment processes;
- Justification of the works based on Wastewater quality data, results from other similar installations, and/or scientific evidence from literature demonstrating performance;
- Basic design criteria and sizing calculations for the treatment system components;
- Type and quantity of treatment chemicals used;
- Maintenance procedures to be carried out to ensure integrity of the Works;
- Provisions to bypass the Treatment Works;
- Collection and disposal of any treatment by-products (e.g. waste solids).

SCHEDULE "G" - WASTEWATER DISCHARGE PERMIT APPLICATION cont

Do you have a Wastewater monitoring program in place? Yes No

If Yes, Briefly
Describe: _____

Attach additional pages if necessary

SECTION F: SPILL PREVENTION AND CONTAINMENT

Do you have any provisions to prevent spills from entering the Sanitary Sewer system? Yes No

If Yes, Briefly
Describe: _____

Attach additional pages if necessary

SCHEDULE "G" - WASTEWATER DISCHARGE PERMIT APPLICATION cont

SECTION G: WASTEWATER CLASSIFICATION AND QUALITY

Indicate whether or not the following types of Wastes are contained in the Wastewater.

PROHIBITED WASTES, STORM OR UNCONTAMINATED WATER	YES (✓)	NO (✓)
Storm Water		
Uncontaminated Water / Cooling Water		
Flammable or Explosive Waste		
Waste causing obstruction or interference		
Waste with a temperature above 54°C		
Radioactive Waste or isotopes		
Biomedical Waste		

Indicate whether or not the following Substances are contained in the Wastewater. Where the answer is yes, please provide an estimate for the concentration levels before Pretreatment and after Pretreatment. For after Pretreatment levels, record actual analytical results where possible. Units should be expressed as mg/L, except as noted.

RESTRICTED SUBSTANCE	YES (✓)	NO (✓)	CONCENTRATION OR RANGE BEFORE PRETREATMENT	CONCENTRATION OR RANGE AFTER PRETREATMENT
Waste containing Grease, Oil, Waxes or Fats				
Wastewater pH (pH units)				
Total Suspended Solids				
Total Biochemical Oxygen Demand				
Aluminum				
Arsenic				
Boron				
Cadmium				
Chromium				
Cobalt				
Copper				
Iron				

SCHEDULE "G" - WASTEWATER DISCHARGE PERMIT APPLICATION cont

RESTRICTED SUBSTANCE	YES (✓)	NO (✓)	CONCENTRATION OR RANGE BEFORE PRETREATMENT	CONCENTRATION OR RANGE AFTER PRETREATMENT
Lead				
Manganese				
Mercury				
Molybdenum				
Nickel				
Selenium				
Silver				
Zinc				
Total Cyanide				
Phenols				
Chlorinated Phenols				
Sulphate				
Sulphide				
OTHER SUBSTANCES	YES (✓)	NO (✓)	CONCENTRATION OR RANGE BEFORE PRETREATMENT	CONCENTRATION OR RANGE AFTER PRETREATMENT
Conductivity				
Chemical Oxygen Demand				
Dissolved Organic Halogen				
Formaldehyde				
Ammonia				
Styrene				
Total Benzene/Ethylbenzene/ Toluene/Xylenes				
• Benzene				
• Ethylbenzene				
• Toluene				
• Xylenes				
Total Polynuclear Aromatic Hydrocarbons				

SCHEDULE "G" - WASTEWATER DISCHARGE PERMIT APPLICATION cont

OTHER SUBSTANCES	YES (✓)	NO (✓)	CONCENTRATION OR RANGE BEFORE PRETREATMENT	CONCENTRATION OR RANGE AFTER PRETREATMENT
Total Extractable Hydrocarbons				
Total Polychlorinated Biphenyls				
Carbon Tetrachloride				
Trichloroethylene				
Tetrachloroethylene				
Vinyl Chloride				

* PLEASE ATTACH A COPY OF SAMPLE ANALYSIS WITH THIS APPLICATION *

HAZARDOUSE WASTES	YES (✓)	NO (✓)
Does your Wastewater Discharge contain Hazardous Waste, <u>prior to</u> treatment?		
Does your Wastewater Discharge contain Hazardous Waste, <u>following</u> treatment?		

Hazardous Wastes - If yes to either of the above, detail (on a separate page) the provisions taken to comply with Column 3 of Schedule 1.2 (Standard for Discharges Directed to Municipal or Industrial Effluent Treatment Works) of the Hazardous Waste Regulation. Please provide supporting information and analytical data.

SECTION H: REQUESTED PERMIT TERM

Indicate below the length of time that you will require a Wastewater Discharge Permit. Please note that the maximum term for a Wastewater Discharge Permit is one year.

0 to 30 days	<input type="checkbox"/>	31 to 90 days	<input type="checkbox"/>	91 to 180 days	<input type="checkbox"/>	181 to 270 days	<input type="checkbox"/>	271 to 365 days	<input type="checkbox"/>
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SCHEDULE "G" - WASTEWATER DISCHARGE PERMIT APPLICATION cont

SECTION I: REQUIRED ATTACHMENTS

Attachment A: Schematic Flow Diagram

The schematic flow diagram should be a simple line drawing illustrating production/process steps at your facility, with particular emphasis on the processes that generate Wastewater and their associated Pretreatment systems. Your diagram should include:

- Each plant process that generates Wastewater (number each Waste source)
- Additional schematics of each Wastewater Pretreatment process
- Process Water flow lines
- Wastewater flow lines
- Sewer Discharge points for each Waste stream

Attachment B: Site Layout

The site layout locates each activity and process in a geographical setting. The site layout, at minimum, should include:

- Building outlines
- Property lines
- North arrow
- Wastewater drainage/collection/treatment systems
- Locations of any continuous monitoring equipment (pH, conductivity, flow meters, etc)
- Sample point location(s)
- Discharge points to the Sanitary Sewer

Both of the attachments should be no smaller than 8.5 X 11 inches and no larger than 11 X 17 inches.

SECTION J: DECLARATION

<u>I DECLARE THAT THE INFORMATION GIVEN ON THIS FORM IS CORRECT AND ACCURATE TO THE BEST OF MY KNOWLEDGE.</u>	
_____	_____
<i>Name (Please Print)</i>	<i>Title</i>
_____	_____
<i>Signature</i>	<i>Date</i>

SCHEDULE "G" - WASTEWATER DISCHARGE PERMIT APPLICATION cont

If you elect to appoint another company employee or consultant as the primary contact for this Application, please complete the following:

<u>PRIMARY CONTACT INFORMATION</u>		
_____	_____	
<i>Name (Please Print)</i>	<i>Title</i>	
_____	_____	_____
<i>Company Name (if Consultant)</i>	<i>Telephone</i>	<i>Fax</i>

**SCHEDULE "H" - WASTEWATER DISCHARGE PERMIT APPLICATION FOR
GROUNDWATER REMEDIATION SITES**

This is an Application for a **Wastewater Discharge Permit** for Groundwater Remediation Sites under the following bylaw:

District of Mission Sewer Bylaw No. 5033-2009

Please enclose a cheque in the amount of \$1500, payable to the District of Mission, for payment for the Wastewater Discharge Permit Application fee.

General Instructions

- Provide all required information and attachments.
- If you do not have an answer for the requested information, indicate so and explain why.
- Indicate “n/a” if a section does not apply to your Application.
- Use additional pages as required.
- Send the completed application form, attachments and Application fee to the following address:

Attn: Source Control Program
Abbotsford/Mission Water & Sewer Services
32315 South Fraser Way
Abbotsford, BC V2T 1W7

Telephone: (604) 853-5485
Facsimile: (604) 557-1457

**SCHEDULE "H" - WASTEWATER DISCHARGE PERMIT APPLICATION FOR
GROUNDWATER REMEDIATION SITES cont**

Application Conditions

In consideration of the granting of this permit, the applicant agrees:

1. To accept and abide by the Terms and Conditions herein.
2. To accept and abide by the District of Mission Sewer Bylaw No. 5033-2009.
3. To provide any additional information on industrial Wastewater Discharge as required by District staff.
4. To cooperate at all times with District staff in the inspection, sampling and study of the industrial Wastewater facilities and Discharges.
5. To ensure that the maximum Discharge rate be less than _____ cubic metres per day and the maximum instantaneous Discharge rate be less than _____ litre per second.
6. To ensure that no other Wastes are discharged into the Sanitary Sewer other than the agreed upon Wastewater.
7. To operate only one industrial Wastewater Discharge point to the Sanitary Sewer under authority granted by this permit.
8. To install a flow meter on the Discharge pipe entering the Sanitary Sewer. To submit to District staff confirmation of the meter accuracy, prior to discharging any Waste into the Sanitary Sewer. The flow meter must be installed in such a location that is easily accessible to District staff. The monthly readings will be the basis for invoicing volume charges for Sanitary Sewer usage.
9. To have an environmental consultant inspect the Pretreatment equipment on a regular basis to ensure that it remains in good working order. To notify District staff immediately of any malfunction of these works. To notify District staff prior to implementing changes to any process of Works or any condition that may affect the quality or quantity of the Discharge into the Sanitary Sewer.
10. To provide a sample point on the Discharge pipe entering the Sanitary Sewer. The sample point must be provided in such a location that is easily accessible by District staff.
11. To ensure that the Wastewater meets the following criteria (along with all other criteria outlined in the Bylaw):

**SCHEDULE "H" - WASTEWATER DISCHARGE PERMIT APPLICATION FOR
GROUNDWATER REMEDIATION SITES cont**

ANALYTE	MAXIMUM CONCENTRATION
pH Range	5.5 to 9.5
Total Polynuclear Aromatic Hydrocarbons (PAH)	0.05 mg/L
Benzene	0.1 mg/L
Total Benzene/Ethylbenzene/Toluene/Xylenes (BETX)	1.0 mg/L

12. To have the Grab Sample(s) collected for the purpose of this Application be analyzed by a certified laboratory for the following parameters:
- pH
 - Total Suspended Solids (TSS)
 - Biochemical Oxygen Demand (BOD)
 - Total Polynuclear Aromatic Hydrocarbons (PAH)
 - Total Benzene/Ethylbenzene/Toluene/Xylenes (BETX)
 - Total Metals (ICP scan) including: Aluminum, Arsenic, Boron, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Molybdenum, Nickel, Silver, Zinc
 - Total Mercury
 - Total Cyanide
 - Sulphate
 - Sulphide
 - Phenols and Chlorinated Phenols
13. To ensure all samples are collected and analyzed within holding times specified by the certified laboratory and that proper sampling techniques are used.
14. To record the sample date(s) and time(s) and submit the analytical results to District staff within 21 days after the date of the sample.
15. To immediately notify the District at 604-853-5485 extension 5663 or 1452 and undertake appropriate remedial actions in the event of an emergency or condition that prevents the continuing operation of any pollution controls Works or procedure designated by these requirements.

**SCHEDULE "H" - WASTEWATER DISCHARGE PERMIT APPLICATION FOR
GROUNDWATER REMEDIATION SITES cont**

16. To pay the District monthly the required Sanitary Sewer Discharge cost based upon the Bylaw rates. In addition, the applicant may be required to contribute a set amount for applicable Development Cost Charges for treatment and trunk Sanitary Sewer. Additional surcharge rates may apply for Biochemical Oxygen Demand or Total Suspended Solids wastes. All costs related to this Wastewater Discharge Permit are to be borne by the applicant.
17. To apply for a revised Wastewater Discharge Permit if any changes in the industrial processes, production, and methods of Wastewater treatment or operations creates a significant change in industrial Wastewater quality.
18. To pay the District quarterly any applicable charges for BOD and TSS Waste, as outlined in the Bylaw under Schedules "D" and "G".

**The District of Mission reserves the right to change the conditions of this agreement, or
revoke the Wastewater Discharge Permit at any time.**

**SCHEDULE "H" - WASTEWATER DISCHARGE PERMIT APPLICATION FOR
GROUNDWATER REMEDIATION SITES cont**

SECTION A: APPLICANT INFORMATION

<u>COMPANY NAME:</u>	_____		
<u>CONTACT PERSON:</u>	_____	<u>TITLE:</u>	_____
<u>TELEPHONE NO:</u>	() - -	<u>FAX:</u>	() - -
EMERGENCY ACCESS TELEPHONE NO:	_____ () - -		
<u>SITE ADDRESS:</u>	_____		
	<i>House No</i>	<i>Street</i>	

	<i>City</i>	<i>Province</i>	<i>Postal Code</i>
<u>MAILING ADDRESS:</u>	_____		
	<i>House No</i>	<i>Street</i>	

	<i>City</i>	<i>Province</i>	<i>Postal Code</i>

Applicants must attach the results of a corporate registry search, conducted within 30 days of this Applications submission date. The corporate registry search indicates that the applicant business has been registered with the BC Ministry of Finance. Corporate registry searches can be obtained for a nominal fee from:

- BC Online at: <http://www.bconline.gov.bc.ca>
- By visiting the Provincial Courthouse at 800 Hornby Street (small claims desk).
- By mailing your written request, and a cheque for \$10 to Suite 100, 800 Hornby St., Vancouver, B.C., Attn: Cashier. The cheque should be made out to the Ministry of Finance.

**SCHEDULE "H" - WASTEWATER DISCHARGE PERMIT APPLICATION FOR
GROUNDWATER REMEDIATION SITES cont**

SECTION B: SITE HISTORY

Summarize the business activities and/or manufacturing processes responsible for the site contamination and provide the name of the current property owner.

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<i>Attach additional pages if necessary</i>

SECTION C: SITE CONTAMINATION CHARACTERIZATION

Characterize the nature of the site contamination. Include supporting analytical data for the soil, groundwater and/or collected Storm Water with this Application. Provide an assessment of whether Hazardous Wastes are present in the soil, groundwater and/or Storm Water. If Hazardous Wastes are present, detail the provisions taken to comply with Column 3 of Schedule 1.2 (Standard for Discharges Directed to Municipal or Industrial Effluent Treatment Works) of the provincial Hazardous Waste Regulation.

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<i>Attach additional pages if necessary</i>

**SCHEDULE "H" - WASTEWATER DISCHARGE PERMIT APPLICATION FOR
GROUNDWATER REMEDIATION SITES cont**

	(X)
Is this a pump & treat?	
Is this an open excavation?	
Is this a combination pump & treat/excavation?	

SECTION D: OPERATING PERIOD

Specify the proposed operating period for the activities (i.e. the period during which Wastewater is discharged to the Sanitary Sewer):

Hours/Day	Days/Week	Weeks/Year

Specify the typical number of hours of Discharge to the Sanitary Sewer during the following periods:

08:00 to 16:00	16:00 to 24:00	0:00 to 08:00

Expected duration of the project: _____

SECTION E: WASTEWATER DISCHARGE CONSTITUENTS

Identify the Contaminants of concern in your Wastewater Discharge (e.g. hydrocarbons, BETX, PAHs, Metals, Suspended Solids, etc.). Identify whether the Discharge includes Storm Water from direct precipitation. Provide a characterization of the Wastewater before and after treatment, noting the presence of hydrocarbons, BETX, PAHs, Metals, Suspended Solids, and any other pertinent Contaminants specified in the District of Mission Sewer Bylaw No. 5033-2009.

<i>Attach additional pages if necessary</i>

**SCHEDULE "H" - WASTEWATER DISCHARGE PERMIT APPLICATION FOR
GROUNDWATER REMEDIATION SITES cont**

Indicate whether or not the following restricted Substances are contained in the Wastewater. Where the answer is yes, fill in the concentration levels before Pretreatment and after Pretreatment (if applicable). Include supporting analytical data.

RESTRICTED SUBSTANCE	YES (✓)	NO (✓)	CONCENTRATION LEVEL BEFORE PRETREATMENT	CONCENTRATION LEVEL AFTER PRETREATMENT
Wastewater pH				
Total Suspended Solids				
Total Biochemical Oxygen Demand				
Aluminum				
Arsenic				
Boron				
Cadmium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Manganese				
Mercury				
Molybdenum				
Nickel				
Selenium				
Silver				
Zinc				
Chlorinated Phenols				
Cyanide				
Phenols				
Sulphate				
Sulphide				

Indicate whether or not the following Substances are contained in the Wastewater. Where the answer is yes, fill in the concentration levels before Pretreatment and after Pretreatment (if applicable).

**SCHEDULE "H" - WASTEWATER DISCHARGE PERMIT APPLICATION FOR
GROUNDWATER REMEDIATION SITES cont**

OTHER SUBSTANCES	YES (✓)	NO (✓)	CONCENTRATION OR RANGE BEFORE PRETREATMENT	CONCENTRATION OR RANGE AFTER PRETREATMENT
Conductivity				
Ammonia				
Chemical Oxygen Demand				
Dissolved Organic Halogen				
Formaldehyde				
Styrene				
Total BETX				
Benzene				
Ethyl Benzene				
Toluene				
Xylenes (Total)				
Total Polynuclear Aromatic Hydrocarbons				
Total Extractable Hydrocarbons				
Polychlorinated Hydrocarbons and Chlorinated Phenols				
Trichloroethylene				
Vinyl Chloride				

SECTION F: WASTEWATER TREATMENT

Describe the Wastewater Treatment Works that will be utilized to treat the Wastewater prior to Discharge to the Sanitary Sewer. Please include the following:

- Basic design criteria and sizing calculations for the treatment system components
- The maximum design flow rate for the Treatment Works
- Justification of the Works based on Wastewater quality data, results from other similar installations and/or scientific evidence from literature demonstrating performance.
- Maintenance procedures to be carried out to ensure integrity of the Works
- Any provisions to bypass the Treatment Works
- For carbon filters, identify procedures/monitoring that will be implemented to ensure carbon replacement prior to breakthrough.
- Method(s) of disposal of any treatment by-products.

**SCHEDULE "H" - WASTEWATER DISCHARGE PERMIT APPLICATION FOR
GROUNDWATER REMEDIATION SITES cont**

SECTION H: FLOW INFORMATION

Total remediation or excavation site area:	<input type="checkbox"/> m ² <input type="checkbox"/> acres		
Total Discharge volume over the requested term of the Permit:	<input type="checkbox"/> m ³ <input type="checkbox"/> L		
Maximum daily Discharge rate:	m ³ /day		
Maximum instantaneous peak flow rate:	L/s		
Maximum Discharge duration:	hours/day	days/week	weeks/year

SECTION I: REQUESTED PERMIT TERM

Please indicate in the appropriate box below the length of time that you will require a Wastewater Discharge Permit (Note: the maximum term for an excavation or groundwater remediation Permit is one year).

- | | | |
|---|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> Less than 7 days | <input type="checkbox"/> 7-30 days | <input type="checkbox"/> 31-90 days |
| <input type="checkbox"/> 91-180 days | <input type="checkbox"/> 181-270 days | <input type="checkbox"/> 271-365 days |

SECTION J: DECLARATION

This application form must be signed by a representative of the company listed as the applicant in Section A, who will be responsible for complying with all terms and conditions of the Wastewater Discharge Permit.

<u>I DECLARE THAT THE INFORMATION GIVEN ON THIS FORM IS CORRECT AND ACCURATE TO THE BEST OF MY KNOWLEDGE.</u>	
<hr/> <p align="center"><i>Name (Please Print)</i></p>	<hr/> <p align="center"><i>Title</i></p>
<hr/> <p align="center"><i>Signature</i></p>	<hr/> <p align="center"><i>Date</i></p>

If you elect to appoint another company employee or consultant as the primary contact for this application, please complete the following:

**SCHEDULE "H" - WASTEWATER DISCHARGE PERMIT APPLICATION FOR
GROUNDWATER REMEDIATION SITES cont**

<u>PRIMARY CONTACT INFORMATION</u>		
_____	_____	
<i>Name (Please Print)</i>	<i>Title</i>	
_____	_____	_____
<i>Company Name (if Consultant)</i>	<i>Telephone</i>	<i>Fax</i>

SCHEDULE "I" - REPORTING OF ACCIDENTAL DISCHARGES TO SEWER

This is a notification for an accidental Discharge under
the following bylaw:

District of Mission Sewer Bylaw No. 5033-2009

General Instructions

- Provide all required information and applicable attachments.
- Use additional pages as required.
- Report all required information over the telephone to the following contact number:

**District of Mission 24 Hour Public Works Number:
(604) 820-3761**

Alternative Contacts:

**Director of Engineering & Public Works
604-820-3739**

**Superintendent of Utilities
604-820-3773**

- Send the completed form and applicable attachments to the following address:

Attn: Source Control Program
Abbotsford/Mission Water & Sewer Services
32315 South Fraser Way
Abbotsford, BC V2T 1W7

Telephone: (604) 853-5485

Facsimile: (604) 557-1457

SCHEDULE "I" - REPORTING OF ACCIDENTAL DISCHARGES TO SEWER cont

SECTION A: SITE INFORMATION

<u>COMPANY NAME:</u>	_____		
<u>CONTACT PERSON:</u>	_____	<u>TITLE:</u>	_____
<u>TELEPHONE NO:</u>	() - -	<u>FAX:</u>	() - -
<u>EMERGENCY ACCESS TELEPHONE NO:</u>	() - -		
<u>SITE ADDRESS:</u>	_____		
	<i>House No</i>	<i>Street</i>	

	<i>City</i>	<i>Province</i>	<i>Postal Code</i>
<u>MAILING ADDRESS:</u>	_____		
	<i>House No</i>	<i>Street</i>	

	<i>City</i>	<i>Province</i>	<i>Postal Code</i>

SECTION B: ACCIDENTAL DISCHARGE INFORMATION

Date of Discharge:	
Time of Discharge:	
Duration of Discharge:	<input type="checkbox"/> hours <input type="checkbox"/> days
Total volume or weight of Discharge:	<input type="checkbox"/> m ³ <input type="checkbox"/> L <input type="checkbox"/> kg

SCHEDULE “J” - CODE OF PRACTICE FOR DENTAL OPERATIONS

1. PURPOSE

Pursuant to Section 26 of the Bylaw, this Code of Practice for Dental Operations sets out the requirements for managing Non-Domestic Waste discharged directly or indirectly from a Dental Operation into the Sanitary Sewer or the Wastewater Treatment System.

2. APPLICATION

- (1) This Code of Practice applies to Dental Operations that produce Non-Domestic Waste containing Dental Amalgam. If work in a dental office is limited to work that does not involve placing or removing Dental Amalgam then this Code of Practice does not apply.
- (2) The Engineer may require a Wastewater Discharge Permit from the Operator of a Dental Operation to authorize the Discharge of Non-Domestic Waste.
- (3) If the Engineer requires a Wastewater Discharge Permit from the Operator of a Dental Operation, this Code of Practice will not apply unless the Wastewater Discharge Permit so provides.
- (4) Nothing in this Code of Practice exempts a Person discharging Waste from complying with this Bylaw or a Wastewater Discharge Permit issued under this Bylaw and all other applicable Enactments.

3. REQUIREMENTS

- (1) An Operator of a Dental Operation must not Discharge Waste which, at the point of Discharge into a Sanitary Sewer, contains:
 - (a) Prohibited Waste, Hazardous Waste, or Storm Water; or
 - (b) Restricted Waste with the exception of Restricted Waste found in Dental Amalgam: mercury, silver, copper or zinc.
- (2) An Operator of a Dental Operation that produces liquid Waste from photographic imaging containing silver on or after January 1, 2010 must also comply with the requirements of Schedule “K” of this Bylaw.
- (3) An Operator of a Dental Operation that produces Wastewater containing Dental Amalgam on or after January 1, 2010 must treat the Wastewater at the Dental Operation site prior to Discharge to the Sanitary Sewer using a Certified Amalgam Separator.

SCHEDULE “J” - CODE OF PRACTICE FOR DENTAL OPERATIONS cont

- (4) An Operator of a Dental Operation must install and maintain the Certified Amalgam Separator referred to in Section 3 (3) according to the manufacturer’s or supplier’s recommendations in order to ensure that the Certified Amalgam Separator functions correctly.
- (5) An Operator of a Dental Operation shall not install an amalgam separator other than a Certified Amalgam Separator on or after January 1, 2010.
- (6) An Operator of a Dental Operation who installs a Certified Amalgam Separator on or after January 1, 2010 must ensure that:
 - (a) all Dental Operation Wastewater that contains Dental Amalgam is treated using the Certified Amalgam Separator;
 - (b) a Monitoring Point is installed at the discretion of the Engineer, and is located at the outlet of the Certified Amalgam Separator or downstream of the Certified Amalgam Separator at a location upstream of any Discharge of other Waste;
 - (c) the Monitoring Point must be installed in such a manner that the total flow from the Certified Amalgam Separator may be intercepted and sampled; and
 - (d) the Monitoring Point shall be readily and easily accessible at all times for inspection.
- (7) If the Monitoring Point referred to under Section 6 (b) is not required by the Engineer, then Sections 6 (b), (c) and (d) do not apply to that Dental Operation.
- (8) If the Certified Amalgam Separator referred to under Section 3 (5) is located downstream of a Wet Vacuum System, an Operator of a Dental Operation must ensure that:
 - (a) the Wet Vacuum System is fitted with an internal flow control fitting; or
 - (b) a flow control fitting is installed on the water supply line to the Wet Vacuum System.
- (9) The flow control fitting referred to in Section 3 (8) must be sized to limit the flow to a rate that is no more than the maximum inlet flow rate of the Certified Amalgam Separator as stated by the manufacturer of the Certified Amalgam Separator.

SCHEDULE “J” - CODE OF PRACTICE FOR DENTAL OPERATIONS cont

- (10) An Operator of a Dental Operation must locate the Certified Amalgam Separator in such a manner that an accidental spill, leak or collecting container failure will not result in Waste containing amalgam entering any Sewer.
- (11) If a location referred to under Section 3 (10) is not available, an Operator of a Dental Operation must do one of the following:
 - (a) install Spill Containment to contain spills or leaks from the Certified Amalgam Separator; or
 - (b) cap all floor drains into which liquid spilled from the Certified Amalgam Separator would normally flow.
- (12) An Operator of a Dental Operation must replace the Certified Amalgam Separator’s Collecting Container when any of the following occurs:
 - (a) the manufacturer’s or supplier’s recommended expiry date, as shown on the Certified Amalgam Separator, has been reached; or
 - (b) the warning level specified in the ISO Standard has been reached; or
 - (c) analytical data obtained using a method of analysis outlined in Standard Methods, or an alternative method of analysis approved by the Engineer, having a method detection limit of 0.1 mg/L or lower, indicates that the total concentration of mercury in the discharge from the Certified Amalgam Separator is greater than, or equal to, 2 mg/L.
- (13) An Operator of a Dental Operation must not dispose of Dental Amalgam collected in a Certified Amalgam Separator, a Collecting Container, or any other device, to a Sewer.
- (14) An Operator of a Dental Operation shall allow the Engineer to inspect the vacuum system, Certified Amalgam Separator, and Amalgam Waste Collecting Container upon request, at any time during the ordinary business hours of the Dental Operation.

4. RECORD KEEPING AND RETENTION

- (1) An Operator of a Dental Operation that uses a Certified Amalgam Separator must keep, at the site of installation of the Certified Amalgam Separator, an operation and maintenance manual containing instructions for installation, use, maintenance and service of the Certified Amalgam Separator installed.

SCHEDULE “J” - CODE OF PRACTICE FOR DENTAL OPERATIONS cont

- (2) An Operator of a Dental Operation that uses a Certified Amalgam Separator must post, at the site of installation of the Certified Amalgam Separator, a copy of the ISO Standard test report pertaining to the Certified Amalgam Separator installed.
- (3) An Operator of a Dental Operation that uses a Certified Amalgam Separator must keep a record book at the Dental Operation site that includes the following information pertaining to the Certified Amalgam Separator installed:
 - (a) date of installation of the Certified Amalgam Separator and name of the installation service provider;
 - (b) serial number and expiry date of the Certified Amalgam Separator and/or its components;
 - (c) maximum recommended flow rate through the Certified Amalgam Separator, where applicable;
 - (d) dates of inspection, maintenance, cleaning and replacement of any amalgam separation equipment or components;
 - (e) dates and descriptions of all operational problems, spills, leaks or Collecting Container failures associated with the Certified Amalgam Separator and remedial actions taken;
 - (f) name, address and telephone number of any person or company who performs any maintenance or disposal services related to the operation of the Certified Amalgam Separator; and
 - (g) dates of pick-up of the Collecting Container for off-site disposal, volume of Waste disposed and the location of disposal.
- (4) All records must be retained for a period of two years and must be available for inspection by the Engineer upon request, at any time during the ordinary business hours of the Dental Operation.

SCHEDULE “K” - CODE OF PRACTICE FOR PHOTO IMAGING OPERATIONS

1. PURPOSE

Pursuant to Section 26 of the Bylaw, this Code of Practice for Photo Imaging Operations sets out the requirements for managing Non-Domestic Waste discharged directly or indirectly from a Photo Imaging Operation into the Sanitary Sewer or the Wastewater Treatment System.

2. APPLICATION

- (1) This Code of Practice applies to Photo Imaging Operations that discharge Non-Domestic Waste containing silver directly or indirectly into the Sanitary Sewer or the Wastewater Treatment System.
- (2) The Engineer may require a Wastewater Discharge Permit from the Operator of a Photo Imaging Operation to authorize the Discharge of Non-Domestic Waste.
- (3) If the Engineer requires a Wastewater Discharge Permit from the Operator of a Photo Imaging Operation, this Code of Practice will not apply unless the Wastewater Discharge Permit so provides.
- (4) Nothing in this Code of Practice exempts a Person discharging Waste from complying with the Bylaw or a Wastewater Discharge Permit issued under the Bylaw and all other applicable Enactments.

3. REQUIREMENTS

- (1) An Operator of a Photo Imaging Operation must not Discharge Waste which, at the point of Discharge into a Sanitary Sewer, contains:
 - (a) Prohibited Waste, Hazardous Waste, or Storm Water; or
 - (b) Restricted Waste with the exception of iron and sulphate; or
 - (c) silver in a concentration that is greater than 5 milligrams per litre (mg/L) as analyzed in a Grab Sample.
- (2) An Operator of a Photo Imaging Operation that produces liquid Waste containing silver on or after January 1, 2010 must either:
 - (a) collect and transport the Waste from the Photo Imaging Operation for Off-site Waste Management; or

SCHEDULE “K” - CODE OF PRACTICE FOR PHOTO IMAGING OPERATIONS cont

- (b) treat the Waste at the Photo Imaging Operation site prior to Discharge to the Sanitary Sewer using one of the following Silver Recovery Technologies:
 - (i) two Chemical Recovery Cartridges connected in a series;
 - (ii) an Electrolytic Recovery unit followed by two Chemical Recovery Cartridges connected in series; or
 - (iii) any other Silver Recovery Technology, or combination of technologies, capable of reducing the concentration of silver in the Waste to 5 mg/L or less where valid analytical test data has been submitted to, and accepted by, the Engineer.
- (3) An Operator of a Photo Imaging Operation must install and maintain the Silver Recovery Technology according to the manufacturer’s or supplier’s recommendations.
- (4) An Operator of a Photo Imaging Operation must collect all liquid Waste containing silver in a holding tank and must deliver this Waste to the Chemical Recovery Cartridges using a Metering Pump.
- (5) An Operator of a Photo Imaging Operation must calibrate the Metering Pump referred to in Section 3 (4) at least once per year.
- (6) An Operator of a Photo Imaging Operation must locate the Silver Recovery System in such a manner that an accidental spill, leak or container failure will not result in liquid Waste containing silver in concentrations greater than 5 mg/L entering into any Sewer.
- (7) If a location referred to under Section 3 (6) is not available, an Operator of a Photo Imaging Operation must do one of the following:
 - (a) install Spill Containment to contain spills or leaks from the Silver Recovery System; or
 - (b) cap all floor drains into which liquid spilled from the Silver Recovery System would normally flow.
- (8) When using two separate Chemical Recovery Cartridges, an Operator of a Photo Imaging Operation must test the Discharge from the first cartridge for silver content at least once per month using either Silver Test Paper or a portable Silver Test Kit.

SCHEDULE “K” - CODE OF PRACTICE FOR PHOTO IMAGING OPERATIONS cont

- (9) When the Discharge from the first Chemical Recovery Cartridge referred to in Section 3 (8) cannot be sampled, an Operator of a Photo Imaging Operation must:
 - (a) install a Cumulative Flow Meter on the Silver Recovery System; and
 - (b) test the Discharge from the second Chemical Recovery Cartridge once per week using Silver Test Paper or a Silver Test Kit.
- (10) An Operator of a Photo Imaging Operation must replace the Chemical Recovery Cartridges when any of the following occurs:
 - (a) the manufacturer’s or supplier’s recommended expiry date, as shown on each cartridge, has been reached; or
 - (b) eighty percent (80%) of the manufacturer’s or supplier’s maximum recommended capacity, or total Cumulative Flow, for each cartridge has been reached;
 - (c) test data, using Silver Test Paper or a Silver Test Kit, indicates that the Discharge from the first cartridge is greater than 1000 mg/L; or
 - (d) analytical data using a method of analysis outlined in Standard Methods, or an alternative method of analysis approved by the Engineer, having a method detection limit of 0.5 mg/L silver or lower, indicates that the concentration of silver in the Discharge from the Silver Recovery System is greater than, or equal to, 5 mg/L.
- (11) If treatment of liquid Waste with two Chemical Recovery Cartridges connected in series is the only Silver Recovery Technology being used, the second cartridge may replace the used first cartridge and a new second cartridge may be installed when one of the events referred to in Section 3 (10) occurs.
- (12) Despite Section 3 (11), if treatment of liquid Waste with two Chemical Recovery Cartridges connected in series is used following treatment by an Electrolytic Recovery Unit, the second cartridge may replace the used first cartridge and a new second cartridge may be installed when one of the events referred to in Section 3 (10) occurs.
- (13) Despite Section 3 (12), both Chemical Recovery Cartridges used following an Electrolytic Recovery Unit must be replaced by the Operator of the Photo Imaging Operation when one of the events referred to in Section 3 (10) occurs if this is recommended by the manufacturer or supplier of the cartridges.

SCHEDULE “K” - CODE OF PRACTICE FOR PHOTO IMAGING OPERATIONS cont

- (14) An Operator of a Photo Imaging Operation shall allow the Engineer to inspect the Silver Recovery System upon request, at any time during the ordinary business hours of the Photo Imaging Operation.

4. RECORD KEEPING AND RETENTION

- (1) An Operator of a Photo Imaging Operation that uses a Silver Recovery System must keep, at the Photo Imaging Operation site, an operation and maintenance manual pertaining to all equipment used in the Silver Recovery System.
- (2) An Operator of a Photo Imaging Operation that uses two Chemical Recovery Cartridges connected in series must keep a record book, available for inspection on request, at the Photo Imaging Operation site that includes the following information:
- (a) serial number of each Chemical Recovery Cartridge used;
 - (b) installation date of each Chemical Recovery Cartridge used;
 - (c) expiry date of each Chemical Recovery Cartridge used (where provided by manufacturers or suppliers);
 - (d) maximum recommended capacity, or total cumulative flow, of each Chemical Recovery Cartridges used;
 - (e) dates of all Metering Pump calibrations;
 - (f) monthly silver test results on the Discharge from the first Chemical Recovery Cartridge; or where the Discharge from the first cartridges cannot be sampled, weekly silver test results on the Discharge from the second Chemical Recovery Cartridge and weekly cumulative flows through the Silver Recovery System; and
 - (g) dates and descriptions of all operational problems associated with the Chemical Recovery Cartridges and remedial actions taken.
- (3) An Operator of a Photo Imaging Operation that uses an Electrolytic Recovery Unit in addition to two Chemical Recovery Cartridges connected in series must keep a record book, available for inspection on request, at the Photo Imaging Operation site that includes the following information:

SCHEDULE “K” - CODE OF PRACTICE FOR PHOTO IMAGING OPERATIONS cont

- (a) all information specified under Section 4 (2);
 - (b) date of each removal of silver from the Electrolytic Recovery Unit;
 - (c) date of each maintenance check on the Electrolytic Recovery Unit; and
 - (d) dates and descriptions of all operational problems associated with the Electrolytic Recovery Unit and remedial actions taken.
- (4) All records must be retained for a period of two years and must be available for inspection by the Engineer upon request, at any time during the ordinary business hours of the Photo Imaging Operation.