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THE CORPORATION OF THE CITY OF NORTH BAY

BY-LAW NO. 85-93

BEING A BY-LAW TO REGULATE THE DISCHARGE OF
SEWAGE AND LAND DRAINAGE IN THE CITY OF NORTH BAY.

WHEREAS Sections 210 (83), 210 (84) and 210 (85) of the Municipal Act, R.S.O. 1990, c. M.45 authorizes the Council to pass bylaws to make other regulations for sewage or drainage that may be considered necessary for sanitary purposes.

NOW THEREFORE THE COUNCIL OF THE CORPORATION OF THE CITY OF NORTH BAY HEREBY ENACTS AS FOLLOWS:

DEFINITIONS

1. In this bylaw:
 - (a) "Biochemical oxygen demand" means the quantity of oxygen utilized in the biochemical oxidation of matter in five (5) days at 20 degrees Celsius.
 - (b) "Body of water" means a river, stream, brook, creek, watercourse, lake, pond, spring, lagoon, marsh, canal or other flowing or standing water;
 - (c) "Colour of a liquid" means the appearance of a liquid from which the suspended solids have been removed;
 - (d) "Combined sewer" means a sewer intended to function simultaneously as a storm sewer and a sanitary sewer;
 - (e) "Director" means either of the Director of Engineering and Environmental Services or the Director of Transportation and Works, of The Corporation of the City of North Bay;
 - (f) "Composite sample" means a sample which is composed of a series of grab samples taken at intervals during the sampling period;
 - (g) "Connection" means that part or those parts of any drain or system of drains leading directly to a public sewer;
 - (h) "Grab sample" is an aliquot of the flow being sampled taken at one particular time and place;
 - (i) "Grease, fat or oil" means any matter which is extractable from a sample by trichlorotrifluoroethane or other designated solvent and can be determined as "oil and grease";
 - (j) "Inspector" means a person authorized by The Corporation of the City of North Bay;
 - (k) "Matter" includes any solid, liquid or gas;
 - (l) "Municipality" means The Corporation of the City of North Bay;
 - (m) "Person" includes a corporation;
 - (n) "pH" means the logarithm to the base 10 of the reciprocal of the concentration of hydrogen ions in moles per litre of solution;
 - (o) "Phenolic compounds" means those hydroxy derivatives of benzene and its condensed nuclei, which can be determined as "phenols";

- (p) "Sanitary Sewer" means a sewer for the collection and transmission of domestic, commercial and industrial sewage or any of them;
- (q) "Sewage" means any liquid waste containing animal, vegetable, mineral or chemical matter in solution or in suspension, except uncontaminated water;
- (r) "Sewage works" means any works for the collection, transmission, treatment or disposal of sewage or any part of such works;
- (s) "Sewer" means a pipe, conduit, drain, open channel, ditch or watercourse for collection and transmission of sewage or storm water;
- (t) "Standard Methods" means a procedure set out in "Standard Methods for the Examination of Water and Wastewater" published jointly by the American Public Health Association: American Water Works Association and Water Pollution Control Federation, current at the date of testing or a procedure approved by an analyst of the Ontario Ministry of the Environment;
- (u) "Storm water" means water from rainfall or other natural precipitation, ground water, or water from the melting of snow or ice;
- (v) "Storm sewer" means a sewer for the collection and transmission of uncontaminated water, storm water, drainage from land or from a watercourse or any of them;
- (w) "Suspended solids" means a solid matter in or on a liquid which matter is removable by filtering and can be determined as "total nonfiltrable residue";
- (x) "Uncontaminated water" means any water, including water from a public or private water works, tho which no matter has been added as a consequence of its use, or to modify its use, by any person;
- (y) "Watercourse" means an open channel, ditch or depression either natural or artificial, in which a flow of storm water occurs either continuously or intermittently.

SANITARY SEWERS

2. No person shall discharge or deposit or cause or permit the discharge or deposit into a sanitary sewer, combined sewer, public or private connection to any sanitary sewer or combined sewer, matter of any type or at any temperature or in any quantity which may:
- (a) be or may become harmful to a sewage works; or
 - (b) interfere with proper operation of a sewage works; or,
 - (c) impair or interfere with any sewage treatment process; or,
 - (d) be or may become a hazard to persons, animals or property,
 - (e) be or become a health or safety hazard to a sewage,

- (f) cause the sewage works effluent to contravene any requirement by or under the Ontario Water Resources Act or the Environmental Protection Act,
 - (g) cause the sludge from sewage works to fail to meet the criteria relating to contaminants for spreading the sludge on agricultural lands under Ontario Guidelines.
3. (1) No person shall discharge or deposit or cause or permit the discharge or deposit into a sanitary sewer, combined sewer, public or private connection to any sanitary sewer or combined sewer any of the material referred to on Schedule "A".
- (2) Section 3 (1) does not apply to prevent the discharge of:
- (a) human waste
 - (b) water taken in an amount greater than 50,000 litres per day from a separate source when the owner or operator of the premises has a Permit To Take Water issued by the Ontario Ministry of the Environment and a copy of such permit has been provided to the municipality, or
 - (c) Water taken in an amount less than 50,000 litres per day from a separate source when the owner or operator of the premises has provided the municipality with the following information:
 - (i) Address of premises where the water is being used;
 - (ii) Location of the water source; and
 - (iii) Amount of water being taken.
 - (d) Subclause 2 (1) 2 (r) does not apply to prevent the discharge of waste disposal site leachate when,
 - (a) the waste disposal site leachate is being discharged pursuant to a certificate of approval or order relating to the premises under the Environmental Protection Act (Ontario) or the Ontario Water Resources Act which expressly allows the discharge;
 - (b) the owner or operator of the premises has written approval from the municipality which expressly authorizes the discharge from the premises; and
 - (c) a copy of the certificate of approval or written authorization referred to in clause (a) has been provided to the municipality.
 - (e) Subclause 2 (1) 2 (r) does not apply to prevent the discharge of hauled sewage when,
 - (a) the carrier of the hauled sewage is a waste transportation system operating under a licence issued under Part VII of the Environmental Protection Act (Ontario);
 - (b) the carrier has written approval from the municipality which includes a specified time and location for the discharge; and
 - (c) the discharge occurs at the approved time and location.

STORM SEWERS

4. No person shall discharge or deposit or cause or permit the discharge or deposit into a storm sewer, land drainage works, watercourse, public or private connection to any storm sewer, matter of any type or at any temperature or in any quantity which may:
- (a) interfere with proper operation of a storm sewer; or
 - (b) obstruct a storm sewer or the flow therein; or
 - (c) impair the quality or quantity of the water in any well, reservoir or other body of water.
5. (1) No person shall discharge or deposit or cause or permit the discharge or deposit into a storm sewer, land drainage works, watercourse, public or private connection to any storm sewer any of the following:
- (a) Any matter that has or may emit an offensive odour which causes or is likely to cause
 - (i) harm or material discomfort to any person, plant or animal life; or
 - (ii) damage to property.
 - (b) Gasoline, benzene, naphtha, fuel oil or other flammable or explosive matter or sewage containing any of these in any quantity.
 - (c) Sewage having a pH less than 9.0 or greater than 9.5.
 - (d) Sewage of which the biochemical oxygen demand exceeds 15 milligrams per litre.
 - (e) Sewage containing more than 15 milligrams per litre of suspended solids.
 - (f) Sewage containing more 15 milligrams per litre of grease, fat or oil.
 - (g) Sewage which consists of two or more separate liquid layers.
 - (h) Atomic wastes and radioactive materials except as may be permitted under the Atomic Energy Control Act (Canada) currently in force and regulations thereunder.
 - (i) Sewage or uncontaminated water at a temperature greater than 40 degrees Celcius.
 - (j) Sewage containing any matter which will not pass through a screen having openings not larger than 3.35 millimetres square (No. 6 standard sieve.)
 - (k) Sewage containing any of the following matter in excess of the indicated concentrations:

<u>Matter</u>	<u>Concentration in Milligrams per litre</u>	<u>Expressed as</u>
Aluminum	1.0	Al
Ammonia	10.0	N
Arsenic	1.0	As
Barium	1.0	Ba
Cadmium	2.0	Cd
Chlorine	0.1	Cl

5. cont'd....

(k)	<u>Matter</u>	<u>Concentration in Milligrams per litre</u>	<u>Expressed as</u>
	Cyanide	0.1	Cn
	Fluoride	2.0	F
	Iron	1.0	Fe
	Lead	1.0	Pb
	Manganese	1.0	Mn
	Mercury	0.001	Hg
	Nickel	1.0	Ni
	Phenolic Compounds	0.02	
	Phosphorous	1.0	P
	Tin	1.0	Sp
	Zinc	1.0	Zn

The presence in sewage of any one of the matters on this list in a concentration in excess of its limit constitutes a separate offence.

- (l) Water containing dyes or colouring material which discolour the water.
- (m) Water containing solvent extractable matter of animal or vegetable origin or of mineral or synthetic origin which causes a visible film, sheen or discolouration on the water surface;
- (2) The provisions of subclauses 3 (1) (2), (c), (d) (e), and (f) do not apply to prevent the discharge of stormwater runoff from industrial process areas to a storm sewer when,
 - (a) the owner or operator of the premises has a certificate of approval or order relating to the premises under the Environmental Protection Act (Ontario) or the Ontario Water Resources Act which expressly allows the discharge and a copy of the certificate of approval or order has been provided to the municipality; or
 - (b) the owner or operator of the premises has written approval from the municipality for a Best Management Practices Plan (BMP) which has been prepared in accordance with Schedule "A".

PESTICIDES

6. No person shall dispose of pesticides and herbicides into a sewer system or watercourse without obtaining the approval of a Director prior to each discharge.

PLUMBING CODE

7. (1) Every person completing work required by this by-law shall ensure that all materials and workmanship used and performed in the completion of such work is undertaken in accordance with the provisions of the Building Code, the Plumbing Code, and this Bylaw.

CONNECTIONS - STORM, SANITARY, & TEMPORARY

(2) (a) No person shall connect to or open a municipal storm sewer or a municipal drainage ditch or any drainage piping or drainage course that conveys or discharges sewage from any property or that is designed to convey or discharge sewage from any property.

- (b) The owner of any property shall not connect or allow to remain connected to a municipal storm sewer or municipal drainage ditch, any drainage piping that conveys or discharges sewage from such property or that is designed to convey or discharge sewage from such property.
- (c) No person shall connect to or open any municipal sanitary sewer that:
 - (i) permits receipt of any drainage or piping; or
 - (ii) conveys or discharges surface water from any property: or
 - (iii) permits the conveyance or discharge of surface water from any property.
- (d) The owner of any property shall not connect or allow to remain connected to a municipal sanitary sewer any drainage piping that:
 - (i) conveys or discharges surface and/or subsurface water from such property; or
 - (ii) permits the conveyance or discharge of surface and/or subsurface water from such property.
- (e) The Council, upon the recommendation of a Director may, upon 14 days notice, require the owner of any property to take all necessary steps and make all necessary alterations, installations and connections to ensure that all sub-surface water from such property shall be piped into the municipal storm sewer or the municipal drainage ditch as the case may be.
- (f) No person shall make a temporary connection to any municipal sewer or treatment works without permission from City Council and until an agreement, in a form satisfactory to the City Solicitor has been executed.
- (g) No person shall open or leave open a sanitary sewer line:
 - (i) except for the immediate purpose of connecting the sanitary sewer to the plumbing of the building to be served; or
 - (ii) for more than 2 hours.

STANDARDS AND APPROVALS

- 8. (a) No person shall connect any sewer or local watercourse to a City sewage works or body of water without the approval of a Director.
- (b) A Director, with the approval of City Council, may from time to time establish such standards as are necessary to govern the design and construction of all sewage works and all persons shall conform to such standards when constructing any new sewage works.
- (c) Adherence to these standards shall be the means by which a Director shall judge if the sewage works conform to this by-law.

- (d) A Director shall inspect the plans and specifications of any sewage work to ensure that the construction of sewage systems connected to or to be connected to City sewage works comply with these standards.
- (e) A Director shall inspect the work during its construction and order such changes as are necessary to ensure that these standards are maintained.

BUILDING DRAINS AND SEWERS

9. In this section:

- (a) "Building drain" means the horizontal piping of gravity drainage piping in or adjacent to a building or other structure that receives the discharge from drainage piping and conveys it to the building sewer; and
- (b) "Building sewer" means that part of drainage piping outside a building or other structure that,
 - (i) connects a building drain to the main sewer or, where the place of disposal of the sewage is on the property, to the place of disposal on the property; and
 - (ii) commences at a point three feet (3') from the outer face of the wall of the building or other structure and terminates at the property line or place of disposal on the property.
- (c) A Director may designate one or more persons to be Inspectors under the Plumbing Code as amended for the limited purpose of carrying out inspections and granting authorizations under sections 10, 11, 17, and 18 of this By-law.
- (d) (i) Every person who builds or causes to be built, a building sewer, shall:
 - (1) construct it in a good, proper and workmanlike fashion; and
 - (2) at such person's own expense, open the trench in which such building sewer is laid, for its full length to the point at which it is joined with the public sewer, upon the written request of an Inspector.
- (ii) Every person referred to in Section 9 (d) (i) shall ensure that all trenches referred to therein are properly backfilled to the satisfaction of a Director.
- (e) No person shall construct, connect or put into use any sewer, including a building sewer, to be used in conjunction with a Municipal system or a private septic system without first having obtained a permit so to do from a Director or an Inspector.
- (f) No person shall connect any building sewer to a municipal sewer system until all work on the floors and walls of the building in respect of which the building sewer is to be constructed has been completed up to grade level.

- (g) In the event of default of any of the above conditions a Director may prohibit the use of the building sewer in conjunction with the municipal system, and may disconnect the sewer at the owner's expense, with subsequent notice only, until the above conditions have been met.
- (h) No person shall cover, connect or use any sewer until it has been inspected and approved by an Inspector.
- (i) Every property owner shall be fully responsible for the cost of constructing the building sewer servicing such owner's property.
- (j) No person other than a plumber, as defined in the Plumbing Code, or person under the direct supervision of such a plumber, shall construct or install any part of any building drain more than one metre (three feet) beyond the exterior surface of the walls of the building to which it is appurtenant.
- (k) No person shall use an existing building sewer for a connection to a new building unless it has first been examined and tested by an Inspector and found to comply with all the requirements of the Plumbing Code and this by-law.
- (l) No person other than a plumber, as defined in the Plumbing Code, or a person under the direct supervision of such a plumber shall construct or install a building sewer.

INTERCEPTORS

- 10. (a) The owner of the property to be served by the building sewer and the builder of the building sewer shall provide grease, oil or sand interceptors, in accordance with the standards and specifications set by the Inspectors, and any other applicable law, for the proper handling of liquid wastes containing grease, flammable wastes, sand or other harmful ingredients.
- (b) (i) The owner of any property served by a building sewer carrying industrial waste shall install one or more suitable control manholes in the building sewer to facilitate observation, sampling and measurement of the wastes.
- (ii) Every owner or builder referred to in Section 10 (b) (i) shall ensure that the manholes provided for therein shall be easily accessible and safely located and that they are constructed in accordance with plans approved by an Inspector.
- (iii) Such manholes shall be installed by the owner at his expense, and shall be maintained by him so as to be safe and accessible at all times.

CLEANOUTS

- 11. No person shall connect, cause to be connected, permit, or instruct any other person to connect a building sewer to a building drain or sanitary drainage system that does not have proper cleanouts installed and maintained as required and to the specifications and manner prescribed by, the Plumbing Code and the Building Code.

TAMPERING

12. (a) No person shall maliciously, wilfully or negligently break, damage, destroy, uncover, deface or tamper with any structure, appurtenance or equipment which is part of the sewage works of the municipal corporation.
- (b) No person shall wilfully or negligently obstruct or otherwise impede the flow in existing piped or open watercourses draining a road, street or any area.

MANHOLES

13. (a) The owner or occupant of commercial, institutional or industrial premises with one or more connections to a public sewer shall install and maintain in good repair in each connection a suitable manhole to allow observation, sampling and measurement of the flow of sewage therein, provided that where installation of a manhole is not possible, an alternative device or facility may be substituted with the approval of a Director.
- (b) Every owner or occupant referred to in Section 14 (a) shall ensure that every manhole, device or facility installed as required by Section 7(a) of this by-law is;
 - (i) designed and constructed in accordance with good engineering practice; and
 - (ii) constructed and maintained on the lands of the owner or occupant of the premises at their own expense.
- (c) The owner or occupant of commercial, institutional or industrial premises shall ensure that every manhole, device or facility installed as required by Section 7 (a) of this by-law is accessible at all reasonable times for the purposes of observing, sampling and measuring the flow of sewage therein.
- (d) The Director may require the owner or operator of industrial premises to install and maintain devices to monitor sewage discharges and to submit regular reports regarding the discharges to the municipality.

DISCHARGE AGREEMENTS

14. (a) The discharge or deposit of sewage that would otherwise be prohibited by this by-law may be permitted in the sanitary or combined sewer or a sewage works to an extent fixed by prior written agreement with the City, under such conditions with respect to payment or otherwise as may be necessary to compensate for any additional costs of treatment.
- (b) A person who has entered into an agreement with the Municipality with respect to the discharge or deposit of sewage shall not be prosecuted under this by-law for the discharge or deposit of sewage in accordance with the terms of that agreement.
- (c) An agreement can only be made for discharge of the following parameters in sewage: Suspended solids, biochemical oxygen demand, phenolic compounds, solvent extractable matter of animal or vegetable origin, Kjeldahl nitrogen and phosphorus.

- (d) The agreement shall be in the form attached as Schedule C and upon recommendation of the Director of Engineering and Environmental Services is authorized to execute such agreements under authority of this by-law.
- (e) A person who has entered into an agreement with the municipality shall not be prosecuted under Section 2 of this by-law for the discharge or deposit of sewage containing the matters specified in the agreement and in compliance with the agreement during the period within which the agreement is applicable and so long as the agreement is being fully complied with.
- (f) The agreement contemplated by section 5 and the compliance program contemplated by section 6 may be terminated by the municipality on 30 days written notice if the discharge of sewage covered by such agreement or compliance program is causing contravention of Clauses 2 (1) 1 and 3 (1) (1).
- (g) The agreement contemplated by section 5 and the compliance program contemplated by section 6 may be terminated by the municipality by written notice at any time where there is an emergency situation of immediate threat or danger to any person, property, plant or animal life or waters.

COMPLIANCE PROGRAMS

- 15. (a) The owner or occupant of commercial, institutional or industrial premises may submit to a Director a program to prevent, reduce or control the discharge or deposit of sewage or uncontaminated water from those premises into connections to a sewage works or to a storm sewer.
- (b) A Director may issue an approval to be known as a program approval to the person who submitted the program.
- (c) A person to whom a program approval has been issued shall not be prosecuted under this by-law for the discharge or deposit of sewage during the period within which the program approval is applicable provided that the person complies fully with the terms of the program approval.
- (d) The municipality may issue an approval for a compliance program to the person who submitted the program.
- (e) Every compliance program shall be for a specified length of time during which the facilities are to be installed and shall be specific as to the remedial actions to be implemented, the dates of commencement and completion, and the materials or other characteristics of the sewage, uncontaminated water or stormwater to which it relates. The final activity completion date shall not be later than the final compliance date in the compliance program.
- (f) A person to whom a compliance program has been issued shall submit a compliance program progress report within 14 days after the scheduled completion date for each activity listed in the compliance program.
- (g) The compliance program progress report shall be in the form attached as Schedule " ".

- (h) A person to whom a compliance has been issued shall not be prosecuted under section 2 or 3 of this by-law for the discharge or deposit of sewage, uncontaminated water or stormwater containing the matters specified in the compliance program and in compliance with the compliance program during the period within which the compliance program is applicable and so long as the compliance program is being fully complied with.

INSPECTIONS AND SAMPLING

- 16. (1) No person shall prevent, hinder, obstruct or interfere in any way with a Director or an Inspector, bearing proper credentials and identification from:
 - (a) entering in or upon any land or premises, except land or premises being used as a dwelling house, at any time between 6:00 a.m. and 9:00 p.m.
 - (b) entering onto lands to examine and correct deficiencies or problems with existing sewage works located on such lands, at any time an emergency situation exists such that a Director determines that the public good requires immediate corrective attention or action by the City.
 - (c) making such tests or taking such samples as he deems necessary; or
 - (d) inspecting or observing any plant, machinery, equipment, work or activity for the purpose of administering or enforcing this by-law.
- (2) Where a sample is required for the purpose of determining the characteristics or contents of the sewage, uncontaminated water or stormwater to which reference is made in this by-law:
 - (a) one sample alone is sufficient and, without limiting the generality of the foregoing, the sample may be a grab sample or a composite sample, may contain additives for its preservation and may be collected manually or by using an automatic sampling device.
 - (b) except as otherwise specifically provided in this by-law, all tests, measurements, analyses and examinations of sewage, uncontaminated water and stormwater, shall be carried out in accordance with Standard Methods; and
 - (c) for each one of the following metals: aluminum, antimony, arsenic, bismuth, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, molybdenum, nickel, selenium, silver, tin, titanium, vanadium and zinc whose concentration is limited in subclauses 2 (1), 2 (p) and 3 (1), 2 (f), the analysis shall be for the quantity of total metal, which includes all metal both dissolved and particulate.

WARRANTS

- (3) (a) Where an owner or occupant refuses to allow a Director or an Inspector bearing proper identification in or onto land, premises, or a dwelling, the Director or Inspector may, if she or he has reasonable ground to believe that there is in or on any such land, premises, or dwelling,
- (b) anything upon or in respect of which a violation of the provisions of this by-law has been committed; or
- (c) anything that there is reasonable ground to believe will afford evidence as to the violation of a provisions of this by-law,

apply for a warrant pursuant to the Provincial Offences Act, R.S.O. 1990, Chap. P.33, as amended, to enter and search such land, premises, or dwelling.

SPILLS

18. (1) Every person who discharges or deposits or causes or permits the discharge or deposit of sewage or in land drainage works, private branch drains or connections to any sanitary sewer or combined sewer shall, if such discharge or deposit is not in the ordinary course of events forthwith notify the municipality or the agency responsible for operating the sewage works receiving the discharge or deposit.
- (2) Every person who discharges or deposits or causes or permits the discharge or deposit of uncontaminated water or stormwater into or in land drainage works, private branch drains or connections to any storm sewer shall, if such discharge or deposit is not in the ordinary course of events forthwith notify the municipality or agency responsible for managing the land drainage works or storm sewer.
- (3) Every person who discharges or deposits or causes or permits the discharge or deposit of any of the items listed in section 3 into or in land drainage works, private branch drains or connections to any sanitary sewer or combined sewer shall, forthwith notify the municipality or the agency responsible for operating the sewage works receiving the discharge or deposit.
- (4) Every person who discharges or deposits or causes or permits the discharge or deposit of any of the items listed in section 5 into or in land drainage works, private branch drains or connections to any storm sewer shall forthwith notify the municipality or agency responsible for managing the land drainage works or storm sewer.
- (5) For any of the discharges in subsections 18 (1), (2), (3) and (4) for which the person is required to forthwith notify the municipality or agency, the notification shall include the following information:
 - (a) name of the company and the address of location of spill;
 - (b) name of person reporting the spill and telephone number where that person can be reached;
 - (c) time of the spill;

- (d) type and volume of material discharged and any associated hazards; and
 - (e) corrective actions being taken to control the spill.
- (6) Within five days following a discharge to which subsection (5) applies, the person shall submit to the municipality or agency a detailed written report describing the cause of the spill and the actions taken or to be taken to prevent a recurrence.

DAMAGE

18. No person shall break, damage, destroy, deface or tamper with:
- (a) any part of a public sewage works;
 - (b) any device whether permanently or temporarily installed in a public sewage works or connected to a public sewer for the purpose of measuring, sampling and testing of sewage, storm water or uncontaminated water.
19. Every owner of property shall ensure that all discharges of surface or subsurface water from such property do not adversely affect adjoining properties.

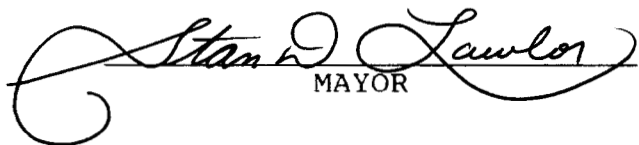
PENALTY

20. Every person who contravenes any provision of this by-law is guilty of an offence and is subject to a fine recoverable under the Provincial Offences Act.
21. This by-law shall come into effect upon being passed.
22. By-law 4-87 is hereby repealed.

READ A FIRST TIME IN OPEN COUNCIL THE 21ST DAY OF JUNE 1993.

READ A SECOND TIME IN OPEN COUNCIL THE 21ST DAY OF JUNE 1993.

READ A THIRD TIME IN OPEN COUNCIL AND ENACTED AND PASSED THIS 21ST DAY OF JUNE , 1993.


MAYOR


DEPUTY CITY CLERK

SCHEDULE "A"

- (a) Matter of a type or quantity that may cause an offensive odour to emanate from a sewage works or which may interfere with the proper operation of a sewage works, or sewage containing any one or more of the following: Bromine; Carbon Disulphide; Hydrogen Sulphide; Formaldehyde or Pyridine, Amines or Ammonia, in such quantity that may cause an offensive odour.
- (b) Gasoline, benzene, naphtha, fuel oil or other flammable or explosive matter or sewage containing any of these in any quantity;
- (c) Sewage having pH less than 6.0 or greater than 10.5;
- (d) Sewage of which the biochemical oxygen demand exceeds 500 milligrams per litre;
- (e) Sewage containing more than 600 milligrams per litre of suspended solids;
- (f) Sewage containing more than 150 milligrams per litre of grease, fat or oil;
- (g) Sewage which consists of two or more separate liquid layers;
- (h) Atomic wastes and radioactive materials except as may be permitted under the Atomic Energy Control Act (Canada) currently in force and regulations thereunder;
- (i) Sewage at a temperature greater than 65 degrees Celsius;
- (j) Storm water or uncontaminated water, except that which may be discharged into a combined sewer;
- (k) Sewage containing any of the following matter in excess of the indicated concentrations:

<u>Matter</u>	<u>Concentration in Milligrams per litre</u>	<u>Expressed as</u>
Aluminum	50	Al
Arsenic	1.0	As
Barium	5.0	Ba
Cadmium	2.0	Cd
Chloride	1500	Cl
Chromium	5.0	Cr
Copper	5.0	Cu
Cyanide	2.0	Cn
Fluoride	10	F
Iron	50	Fe
Lead	5.0	Pb
Mercury	0.1	Hg
Nickel	5.0	Ni
Phenolic Compounds	1.0	
Phosphorous	100	P
Sulphate	1500	SO4
Sulphide	2.0	S
Tin	5.0	Sp
Zinc	5.0	Zn

The presence in sewage of any one of the matters on this list in a concentration in excess of its limit constitute a separate offence.

- (l) solid or viscous substances in quantities or of such size as to be capable of causing obstruction to the flow in a sewer, including, but not limited to ashes, cinders, bones, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, inground garbage, animal guts or tissue, paunch manure and whole blood.
- (m) Sewage that may cause an offensive odour to emanate from a sewage works, and without limiting the generality of the foregoing, sewage containing hydrogen sulphide, carbon disulphide, other reduced sulphur compounds, amines or ammonia in such quantity that may cause an offensive odour.
- (n) Except in the case of discharge into a combined sewer, stormwater, water from drainage of roofs or land, water from a watercourse or uncontaminated water.
- (o) Water other than stormwater that has originated from a source separate from the water distribution system of the municipality.
- (p) Sewage or uncontaminated water at a temperature greater than 65 degrees Celsius.
- (q) Sewage having a pH less than 5.5 or greater than 9.5.