

THE CORPORATION OF THE CITY OF NORTH BAYBY-LAW NO. 2239

Being a by-law to regulate the discharge of sewage and land drainage into the sewer systems and watercourses in the Corporation of the City of North Bay, including the control of industrial waste discharges.

WHEREAS the Ontario Water Resources Commission has recommended that municipalities enact by-laws for the control of pollution and industrial waste discharges into municipal sewer systems and drainage facilities;

AND WHEREAS the Council of the Corporation of the City of North Bay deems it advisable to enact the within by-law.

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

1. For the purposes of this by-law:

(a) "Biochemical Oxygen Demand (BOD) means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five (5) days at twenty (20) degrees centigrade expressed in parts per million by weight.

(b) "City" shall mean the Corporation of the City of North Bay.

(c) "Coliform Count" means the number of all coliform bacteria enumerated by standard laboratory procedure and expressed in number of coliform bacteria per 100 millilitres.

(d) "Colour of a Liquid" means the appearance of a liquid, from which the suspended solids have been removed, that results from the kind of light reflected from the liquid.

(e) "Council" shall mean the Council of the Corporation of the City of North Bay.

(f) "Enforcement Officer" shall include the City Engineer, the Assistant City Engineer, the Plumbing Inspector, the Medical Officer of Health of the North Bay Area Health Unit and the City Sanitary Inspector.

(g) "Parts Per Billion (ppb)" means parts per billion by weight.

(h) "Parts Per Million (ppm)" means parts per million by weight.

(i) "Person" shall include a firm, partnership, company or corporation.

(j) "Phenol Equivalents" means those hydroxy derivatives of benzene, or its condensed nuclei, which can be determined by the Aminocantiprene or Gibbs Method.

(k) "pH" means the logarithm of the reciprocal of the weight of hydrogen ions and grams per litre of solution;

(l) "Matter" includes any gaseous, liquid or solid substance, or any combination thereof.

(m) "Sanitary Sewer Connection" means any drainage works, pipe, or other device that connects directly or indirectly to a sanitary sewer.

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(n) "Sanitary Sewer" means a municipal sewer for the collection and transmission of domestic, commercial and industrial wastes, but excluding land drainage or storm water run-off.

(o) "Storm Sewer Connection" means any land drainage works, pipe, or other device that connects directly or indirectly to a storm sewer.

(p) "Storm Sewer" means a municipal sewer for the collection and transmission of land drainage or storm water.

(q) "Suspended Solids" means solid matter in or on a liquid that is removable by filtering with a glass fibre filter paper equivalent to a Reeve Angel Glass Fibre Filter Paper, Fisher Number 9-873.

2. SANITARY SEWER USE

In the City of North Bay no person shall discharge or permit or cause to be discharged directly or indirectly into any sanitary sewer any of the following:

- (i) Matter having a temperature more than 150°F.
- (ii) Matter which may contain any volatile oils of more than one hundred (100) parts per million by weight, of fat, oil, or grease of animal or vegetable origin or fifteen (15) parts per million of oil or grease of mineral origin.
- (iii) Gasoline, benzene, naphtha, fuel oil, acetone, solvents or other inflammable or explosive matter.
- (iv) Ashes, cinders, garbage, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, cellulose, paunch manure or other solids of a type or quantity capable of causing obstruction to the flow in sewers or other interference with the proper operation of the sewage treatment plant(s).
- (v) Matter having a pH lower than 5.5 or higher than 9.5 or where the pH becomes lower than 5.5 or higher than 9.5 if the matter is diluted by any liquid.
- (vi) Any liquid matter containing suspended solids exceeding three hundred and fifty (350) parts per million by weight.
- (vii) Matter that may cause the death or injury to any person or capable of causing damage or hazard to structures, equipment and personnel of the sewage works.
- (viii) Hydrogen sulphide, carbon bisulphide, ammonia, trichloroethylene, sulphur dioxide, formaldehyde, chlorine, bromine, pyridine or any other matter that has or may cause an offensive odour or is capable of creating a public nuisance.
- (ix) Any matter in which the BOD exceeds three hundred (300) parts per million.
- (x) Animal wastes such as hair, wool or fur, feathers, intestines or stomach casings, paunch manure, or intestinal contents, hides or parts thereof, hooves, toenails, horns, bones and flashings.
- (xi) Matter containing a toxic or poisonous substance in sufficient quantity to injure or interfere with any sewage treatment process or constitutes a hazard to humans or animals. Included in this category are waters or wastes containing metals or chemicals such as cyanide, hexavalent chromium, phenols, copper whose concentrations are more than

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Chromium as Cr	3 ppm
Cyanide as HCN	2 ppm
Phenol equivalents (primary treatment)	50 ppm
Phenol equivalents (secondary ")	100 ppm
Copper as Cu	1 ppm

3. STORM SEWER USE

In the City of North Bay no person shall discharge or cause or permit to be discharged, directly or indirectly, into any private branch drain, or land drainage works that is capable of discharging any matter into any well, lake, river, pond, spring, stream, reservoir, or other water or watercourse, or on any shore or bank thereof, or into any place from which the matter may be discharged into or deposited in any well, lake, river, pond, spring, stream, reservoir, or other water or watercourse or any storm sewer or any connection to a storm sewer, any of the following:

- (i) Any matter having a temperature more than 150° F.
- (ii) Any matter which may contain more than fifteen (15) parts per million of fat, oil, grease, or other matter that is soluble in ether.
- (iii) Gasoline, benzene, naphtha, fuel oil, or other inflammable or explosive matter.
- (iv) Ashes, cinders, garbage, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastic, wood, cellulose, paunch manure or any other solid, viscous, or colloidal matter that is not dissolved in a liquid, or a type or quantity capable of causing obstruction to the flow in sewers.
- (v) Any matter having a pH lower than 5.5 or higher than 9.5 or where the pH becomes lower than 5.5 or higher than 9.5 if the matter is diluted by any liquid.
- (vi) Any matter that in any concentration or quantity that will cause the death of or injury to any person, fish, animal, bird or fowl, or damage to any property.
- (vii) Any matter containing suspended solids exceeding twenty (20) parts per million or which are incapable of passing through a quarter-inch screen.
- (viii) Carbon bisulphide, hydrogen sulphide, ammonia, trichloroethylene, sulphur dioxide, formaldehyde, chlorine, bromine, pyridine, or any other matter that has or may cause an offensive odour.
- (ix) Any matter in which the BOD exceeds twenty (20) parts per million.
- (x) Any coloured matter which requires a dilution in excess of four (4) parts of water without colour to one (1) part of the coloured matter to dissipate the colour till it is not determinable by the colour test.
- (xi) Any matter containing any of the following materials in excess of the following concentrations:

Phenolic equivalents	20 ppb
Cyanides as HCN	0.1 ppm
Cadmium as Cd	1.0 ppm
Chromium (Hexavalent) as Cr	1.0 ppm
Copper as Cu	1 ppm
Zinc as Zn	15 ppm
Iron as Fe	17 ppm
Chlorides as Cl	1,500 ppm
Sulphates as SO ₄	1,500 ppm

(xii) Any matter in which the median coliform count exceeds 2,400 per 100 millilitres.

4. Where a waste water is not amenable to treatment in the City treatment works, the Council may direct that the waste in question be treated prior to discharge to a storm sewer, in order that the provisions of this by-law shall be complied with.

5. Where, in order to prevent the discharge of an effluent to the City sewer system exceeding the strength, nature, quantity or quality permitted by this by-law, it is necessary to install a treatment plant, it shall be constructed according to design and working methods in keeping with good engineering practice and shall be installed at a location suitable to Council and shall be kept in operation for so long as may be necessary to prevent the discharge of such effluent contrary to the provisions of this by-law.

6. Where grease, oil and grit interceptors are provided at the cost of the owner to prevent the discharge of waste waters containing amounts of these substances in excess of the amounts permitted by this by-law they shall be properly maintained and placed in locations readily accessible for cleaning and inspection and shall be of a design in keeping with good engineering practice.

7. The Council may permit the discharge of an industrial waste that would otherwise be prohibited by this by-law in the sanitary or combined storm and sanitary sewer system to an extent fixed by agreement with the City under such terms and conditions with respect to payment or otherwise as may be necessary to compensate for any additional costs of treatment.

8. Any person discharging waste water to the sewer system shall ensure that such waste water conforms at all times to the provisions of this by-law.

9. (1) The owner of any property served by a sewer, connecting any industrial building, apartment building of more than 30 suites, or shopping centre, with any sewer in the City area shall install one or more suitable manholes in the said sewer to facilitate observations, sampling and measurement of the waste water therefrom.

(2) Such manholes shall be of designs in accordance with good engineering practice and shall be constructed and maintained at the cost of the owner on the lands of such owner abutting the property line adjacent to the municipal sewer so that all wastes from the property pass through such manholes.

10. All equipment designed for the treatment or interception of waste water or matter including inspection manholes shall be subject to inspection at all reasonable times by an Enforcement Officer and he shall be permitted to inspect, observe, measure, sample and test all effluent and drainage.

11. All measurements, tests and analyses of the characteristics of the waste waters to which reference is made in this by-law, shall be determined in accordance with Standard Methods.

12. It shall be the duty of the Enforcement Officer to enforce the provisions of this by-law and he is hereby authorized and empowered to sign any written notice which may be required to be served upon any person or owner under the provisions of this by-law and he is further authorized and empowered to make all necessary observations, inspections,

measurements, tests and analyses which he may deem requisite and necessary under the terms and provisions of this by-law and he is further authorized and empowered to take all necessary steps and institute all necessary proceedings to ensure due compliance with the terms and provisions of this by-law.

13. Any person convicted of a breach of any of the provisions of this by-law shall forfeit and pay, at the discretion of the convicting Magistrate a fine or penalty not exceeding the sum of Three Hundred Dollars (\$300.00) for each offence, exclusive of costs, to be recoverable under The Summary Convictions Act.

READ A FIRST TIME IN OPEN COUNCIL THIS 18TH DAY OF OCTOBER 1965.

READ A SECOND TIME IN OPEN COUNCIL THIS 18TH DAY OF OCTOBER 1965.

RULES OF ORDER WERE SUSPENDED AND BY-LAW READ A THIRD TIME AND PASSED THIS 18TH DAY OF OCTOBER 1965.


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Mayor


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City Clerk