Certificate of Approval

"Sewer Discharge By-Law 20-01", Village of Port Williams

This is to certify that, pursuant to subsection 433(1) of the *Municipal Government Act*, the "Sewer Discharge By-Law 20-01" submitted by the Village of Port Williams, Kings County, Nova Scotia, passed at a duly convened meeting of the Village Commission of the Village of Port Williams on the 21st day of January, 2020 is hereby approved, and the said by-law hereby has the force of law pursuant to subsection 433(1) of the *Municipal Government Act*.

DATED this $21^{\frac{1}{12}}$ day of $\overline{J_{V|V}}$, 2020.

Honourable Chuck Porter

Minister of Municipal Affairs and Housing

SEWER DISCHARGE BY-LAW

A BY-LAW RESPECTING THE REGULATION OF DISCHARGES TO THE SEWER OF THE VILLAGE OF PORT WILLIAMS BY-LAW NO. 20-01

1. This By-law may be cited as the "Sewer Discharge By-law".

DEFINITIONS

- 2. In this By-law, unless the context otherwise requires, the expression:
 - (a) "Biochemical Oxygen Demand" or "BOD" means the quantity of oxygen utilized, expressed in milligrams per litre, in the biochemical oxidation of matter within a one hundred and twenty hour period at ah temperature of twenty degrees Celsius as determined in procedures set forth in "Standard Methods";
 - (b) "Chemical Oxygen Demand" or "COD" means the quantity of oxygen utilized in the chemical oxidation of organic matter under standard laboratory procedure, expressed in milligrams per litre, according to "Standard Methods";
 - (c) "Clerk" means the Village Clerk and includes a person acting under the direction of the Clerk;
 - (d) "colour of liquid" means the appearance of a liquid from which the suspended solids have been removed;
 - (e) "control service access" means an access point, such as a chamber, in a building service connection to allow for observation, sampling and flow measurement of waste.
 - (f) "cooling water" means water that is used in a process for the purpose of removing heat and that has not, by design, come into contact with any raw material, intermediate product, waste product or finished product;
 - (g) "Commissioners" means the Commissioners of the Village of Port Williams;
 - (h) "domestic waste" means waste typically derived from dwellings, which complies with the discharge requirements of this By-law without treatment prior to discharge into wastewater facilities;
 - (i) "effluent" means treated wastewater flowing out of a treatment plant;

- (j) "Engineer" means the engineer for the Village and includes a person acting under the supervision and direction of the Engineer;
- (k) "grab sample" means a volume of wastewater, uncontaminated water or effluent which is collected from the wastewater stream over a period not exceeding ten (10) minutes;
- (l) "grease" means total oil and grease extracted from aqueous solution or suspension according to the laboratory procedures set forth in "Standard Methods", and includes, but is not limited to, hydrocarbons, esters, oils, fats, waxes and high molecular fatty acids;
- (m) "hauled waste" means any industrial waste which is transported to and deposited into wastewater facilities, excluding hauled wastewater;
- (n) "hauled wastewater" means domestic waste removed from a cesspool, septic tank system, a privy vault or privy pit, a chemical toilet, a portable toilet, or a holding tank, which is transported to and deposited into wastewater facilities;
- (o) "industrial waste" includes waste typically derived from manufacturing, commerce, trade, business or institutions, and includes all waste which is not domestic waste;
- (p) "institution" means a facility, usually owned by a government, operated for public purposes such as a school, university, medical facility, museum, prison, government office, or military base;
- (q) "matter" includes any solid, liquid, or gas;
- (r) "pathologic waste" means waste generated in a hospital or similar institution which contains human or animal tissue altered or affected by disease, and instruments or other materials which may have come in contact with diseased tissue;
- (s) "person" includes a corporation and the heirs, executors, administrators or other legal representatives of a person but specifically excludes the Village;
- (t) "pH" means the measure of the intensity of the acid or alkaline condition of a solution determined by the hydrogen ion concentration of the solution as set forth in the "Standard Methods";
- (u) "phenolic compounds" means hydroxyl derivatives of benzene and its condensed nuclei, concentrations of which shall be determined by "Standard Methods";

- (v) "professional engineer" means a registered member in good standing of the Association of Professional Engineers of Nova Scotia;
- (w) "Provincial Regulations" means the requirements and provisions of the Province of Nova Scotia contained in any Provincial Statute or in any Regulation or order made pursuant to the authority of any Statute of Nova Scotia;
- (x) "spill" means the deposit or discharge of matter into wastewater facilities in a quality or quantity that is not in compliance with this By-law;
- (y) "Standard Methods for the Examination of Water and Wastewater" (herein referred to as "Standard Methods") means the analytical and examination procedures provided in the edition of the publication of the same name current at the time of testing, published jointly by the American Public Health Association and the American Water Works Association;
- (z) "Superintendent" means the Superintendent of Public Works for the Village and includes a person acting under the supervision and direction of the Superintendent;
- (aa) "suspended solids" means insoluble matter that can be removed by filtration through a standard glass fibre filter as set forth in "Standard Methods";
- (bb) "TKN" means total kjeldahl nitrogen;
- (cc) "true colour units" means the measure of the colour of the water from which turbidity has been removed;
- (dd) "uncontaminated water" means any water, including water from a public or private water works, to which no matter has been added as a consequence of its use, or to modify its use, by any person, and may include cooling water;
- (ee) "Village" means the Village of Port Williams, a body corporate pursuant to the *Municipal Government Act*, or the area contained within the boundaries of such body corporate as the context requires;
- (ff) "waste" means any material discharged into the wastewater facilities;
- (gg) "wastewater" means any liquid waste containing animal, vegetable, mineral or chemical matter in solution or suspension carried from any premises.

CONNECTIONS

- Every owner of a building in which are located facilities discharging sewage, the nearest part of which building is not more than fifty(50) feet from any portion of wastewater facilities controlled by the Village is required, at the owner's expense, to connect each building to wastewater facilities controlled by the Village by a dedicated building service connection and keep such building so connected.
- 3.2 Notwithstanding section 3.1, a building service connection may be utilized by more than one building if all of the following conditions are met: all buildings are located on the same lot and are legally and beneficially owned by the same person.
- No person shall make a connection to, or a disconnection from, wastewater facilities controlled by the Village without the written approval of the Superintendent. Connection or disconnection shall occur within 365 days of the date of such approval.
- 3.4 Every person who seeks to make a connection to wastewater facilities controlled by the Village shall provide written notice to the Superintendent of whether they will deposit or permit the deposit of domestic waste and/or industrial waste into the wastewater facilities, the number and location of buildings proposed to be connected to one building service connection, and any other information that the Engineer or Superintendent requires.
- 3.5 The Superintendent's approval of a connection to wastewater facilities controlled by the Village shall take the form of a connection permit authorizing the discharge from the buildings specified in the permit of the matter and volume of the matter described in the permit.
- No person shall discharge any matter or any volume of matter into wastewater facilities controlled by the Village without a connection permit authorizing the discharge of that matter and the volume of that matter. Any change in the matter and/or volume of the matter authorized requires a new connection permit authorizing such matter and volume.
- 3.7 The owner of a building connected to the wastewater facilities controlled by the Village is responsible for the design, maintenance and construction of the entire building service connection. The design of any building service connection servicing more than one building shall include access for mechanical cleaning.
- 3.8 No person shall deposit industrial waste into wastewater facilities controlled by the Village until:
 - (a) a Waste Survey Report has been filed with the Superintendent; and

- (b) the Superintendent has issued a connection permit.
- A connection to, or a disconnection from, wastewater facilities controlled by the Village shall comply with the Nova Scotia Road Builders Association Consulting Engineers of Nova Scotia Standard Specifications for Municipal Services, as amended from time to time, and or such other specification as prescribed by the Village.
- 3.10 Every owner of a building connected to wastewater facilities controlled by the Village shall install a backwater valve in the building service connection. If more than one building is connected to a building service connection, there shall be a back water valve installed for each building. The backwater valve shall be accessible for inspection and shall be maintained by the owner. The backwater valve shall be of a type and specification approved by the Engineer. The backwater valve shall be installed upon construction of the building service connection. A building service connection existing at the effective date of this By-law shall contain a backwater valve within 24 months of that effective date.

USE OF SEWERS

Discharges to Wastewater Facilities

- 4.1 No person shall permit the discharge into wastewater facilities controlled by the Village, or into wastewater facilities or a building service connection connecting with the wastewater facilities controlled by the Village, of;
 - (a) Hydrogen sulphide, mercaptans, carbon disulphide, other reduced sulphur compounds, amines and ammonia;
 - (b) Ashes, cinders, sand, potters clay, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics or wood or other solid of viscous substances capable of causing obstruction to the flow of sewers or other interference with the proper operation of wastewater facilities;
 - (c) Wastewater which consists of two or more separate liquid layers;
 - (d) Hauled waste or hauled wastewater, unless specifically authorized by the Village;
 - (e) Paunch manure or intestinal contents from horses, cattle, sheep or swine, hog bristles, pig hooves or toenails, animal intestines or stomach casings, bones, hides or parts thereof, manure of any kind, poultry entrails, heads, feet or feathers, eggshells, fleshing and hair resulting from tanning operations;

- (f) Animal fat or flesh in particles larger than will pass through a quarter inch screen;
- (g) Gasoline, benzene, naphtha, or fuel oil or wastewater containing any of these in any quantity;
- (h) Wastewater or uncontaminated water having a temperature in excess of sixty (60) degrees Celsius;
- (i) Wastewater having a pH less than 5.5 or greater than 9.5;
- (j) Sewage containing dyes or colouring materials which pass through wastewater facilities and discolour the effluent from such facilities;
- (k) Wastewater containing any of the following in excess of the indicated concentrations:

50 Milligrams/Litre Aluminium (Al) 5 Milligrams/Litre Antimony (Sb) 0.1 Milligram/Litre Arsenic (As) 5 Milligrams/Litre Barium (Ba) 5 Milligrams/Litre Beryllium (Be) 5 Milligrams/Litre Bismuth (Bi) 0.1 Milligram/Litre Cadmium (Cd) 1500 Milligrams/Litre Chlorides (C1) 0.01 Milligrams/Litre Chloroform 0.37 Milligrams/Litre Chromium (Cr) 5 Milligrams/Litre Cobalt (Co) 1 Milligrams/Litre Copper (Cu) 1 Milligrams/Litre Cyanide (HCN) 0.09 Milligrams/Litre Dichlorobenzene 0.057 Milligrams/Litre Ethylbenzene 10 Milligrams/Litre Fluorides (F) 0.055 Milligrams/Litre Hexachlorobenzene 50 Milligrams/Litre Iron (Fe) 0.1 Milligrams/Litre Lead (Pb) 5 Milligrams/Litre Manganese (Mn) 0.1 milligrams/Litre Mercury (Hg) 0.0981 Milligrams/Litre Methylene Cloride 5 Milligrams/Litre Molybdenum (Mo) 0.55 Milligrams/Litre Nickel (Ni) 1 Milligrams/Litre Phenolic Compounds 12 Milligrams/Litre Phosphorus (P) 0.004 milligrams/Litre Polychlorinated Biphenyls (PCBs)

Sulphates (SO₄)

1500 Milligrams/Litre

0.3 Milligrams/Litre Sulphide (H₂S) 0.82 Milligrams/Litre Selenium (Se) 0.29 Milligrams/Litre Silver (Ag) 0.04 Milligrams/Litre Tetrachloroethane 0.05 Milligrams/Litre Tetracholoethylene 5 Milligrams/Litre Tin (Sn) 0.08 Milligrams/Litre Toluene 0.054 Milligrams/Litre Trichloroethylene 0.32 Milligrams/Litre Xylene 0.03 Milligrams/Litre Zinc (Zn)

(l) Wastewater of which the BOD exceeds two hundred (200) milligrams per litre;

- (m) Wastewater containing more than two hundred (200) milligrams per litre of suspended solids;
- (n) Wastewater of which the COD exceeds five hundred (500) milligrams per litre.
- (o) Wastewater containing more than eighty-five (85) milligrams per litre of animal fat, grease, or vegetable oil, in liquid or solid form, and, in the case of mineral oils, in concentrations exceeding fifteen (15) milligrams per litre;
- (p) Wastewater containing more than sixty (60) milligrams per litre of TKN;
- (q) Water from a swimming pool.
- 4.2 Compliance with any limit is not attainable simply by dilution or through the use of enzymes.
- Where there is a storm sewer or other method or means of carrying stormwater situate in the portion of the street on which the property immediately abuts, no person shall discharge, or permit the discharge of, stormwater into wastewater facilities from any structures erected on the property after the effective date of this By-law.
- No person shall discharge, or permit the discharge of, stormwater into wastewater facilities if the stormwater, or some portion of the stormwater, was collected from a roof. Any such discharge existing at the effective date of this By-law shall cease within six (6) months of that effective date.

SAMPLING AND ANALYSIS

- Where sampling is done by the Village for the purposes of determining the characteristics or contents of the wastewater, uncontaminated water, or stormwater, to which reference is made in this By-law, which is suspected not to be in compliance with this By-law:
 - one composite sample alone is sufficient and, without limiting the generality of the foregoing, the sample may be comprised of three (3) grab samples taken over a maximum ten (10) minute period, 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 wastewater, uncontaminated water and stormwater, shall be carried out in accordance with Standard Methods; and
 - (c) for each of the metals whose concentration is limited in this By-law the analysis shall be for the quantity of total metal, which includes all metal both dissolved and particulate.
 - (d) wastewater flow shall be the average daily flow determined by dividing the monthly flow by the number of days in the month, or the actual daily flow.
 - Where a common building service connection connects different premises in a building, any of which premises discharge industrial waste, but which premises have separate water meters, and a separate control service access is not available for the premises discharging industrial waste, the results of tests performed or samples collected from the control service access shall be used to determine compliance with this By-law by each of the premises connected to the common building service connection.
 - The Engineer may from time to time conduct tests at the control service access, where there is no service access at a place determined by the Engineer to be satisfactory to test wastewater being discharged. The Engineer may enter upon the premises from which the wastewater originates and conduct the tests as the Engineer deems necessary.
 - For the purpose of determining compliance with section 4.1, the Engineer may test discrete wastewater streams within premises and each stream must comply with section 4.1.

- Where there is more than one control service access for a building service connection, the Engineer may add together the test results from each control service access to determine compliance, but need not do so.
- All costs associated with the sampling and analysing required to determine the characteristics and contents of wastewater, uncontaminated water or stormwater referred to in this By-law shall be paid by the owner or operator of the premises from which the water was discharged.

SPILLS

- 6.1 It is a condition of a connection permit for wastewater facilities controlled by the Village that every person who has a spill shall forthwith notify the Superintendent and, if there is any chance of immediate danger to human health and/or safety, the person who has a spill shall forthwith notify the 911 emergency service.
- 6.2 For any spill for which the person is required to forthwith notify the Superintendent, the notification shall include the following information:
 - name of the person who has the spill and the address of the location of the 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.
- Within five days following a spill, the person responsible for the spill shall submit to the Superintendent a detailed written report describing the cause of the spill and the actions taken, or to be taken, to prevent a recurrence.
- 6.4 For any spill, the person responsible for the spill, their employer, if the spill occurred while carrying out duties on behalf of the employer, and the owner of the property upon which the spill occurred, shall be jointly and severally liable for all costs incurred by the Village as a result of the spill, which shall include the costs set out in Schedule "A" attached to and forming part of this By-law.

REPORTS

7.1 It is a condition of a connection permit for wastewater facilities that the owner of a property discharging industrial waste into wastewater facilities shall file a Waste

Survey Report with the Superintendent. This applies to connections made with or without a formal permit, installed both prior to as well as after the effective date of this By-law.

- 7.2 The Waste Survey Report shall contain the following information and shall be signed by an authorized representative of the owner or operator of the premises:
 - (a) name and address of the premises, and names of its owner and operator;
 - (b) description of process operations, including the type of waste to be discharged, waste discharge rates and contaminant concentrations, hours of operation and plans and reports certified by a professional engineer indicating proposed industrial expansion, addition or new construction;
 - (c) a schematic process diagram indicating waste discharge points and waste descriptions;
 - (d) the daily volumes and peak discharges of wastewater from the premises;
 - (e) the amount of total suspended solids, oil grease or fat in the wastewater;
 - (f) the proposed pre-treatment, flow equalization or mixing facilities to be utilized on the premises certified by a professional engineer;
 - (g) the location of the control service access or test manholes for wastewater and storm drainage discharged at the premises;
 - (h) the monitoring equipment to be utilized on the premises; and
 - (i) such other information as the Engineer may request.
 - 7.3 The Waste Survey Report shall be in the form specified by the Engineer.
 - 7.4 Where a change occurs in any information described in a Waste Survey Report, the owner or operator of the premises shall submit a new Waste Survey Report setting out the changes, within thirty (30) days of the change.
 - 7.5 It is a condition of a connection permit for wastewater facilities that owners discharging, or permitting the discharge of, industrial waste into wastewater facilities provides reports of the content of that industrial waste, in a form approved by the Engineer, as required by the Engineer on an annual basis or at such other intervals as the Engineer determines.

- 7.6 All samples used for reporting the content of industrial waste according to subsection 7.5 must be composite samples and all tests, measurements, analyses and examinations of wastewater, its characteristics or contents must be carried out in accordance with "Standard Methods".
- 7.7 All costs associated with the production of the reports in subsection 7.5 shall be borne by the owner of the property discharging the industrial waste.

CONTROL SERVICE ACCESS

- 8.1 Every owner of premises connected to wastewater facilities, which premises produce industrial waste containing TKN or grease, and that uses an average of over 36,400 litres of water per day in any twelve (12) month period, must install and maintain a suitable control service access to allow observation, sampling, and flow measurement of the wastewater, uncontaminated water or stormwater therein, provided that where installation of a control service access is not possible, an alternative device or facility may be substituted with written approval of the Engineer.
- 8.2 The control service access, or alternative device, shall be located on the property of the owner or operator of the premises, unless it is not physically possible and the Engineer has given written approval for a different location.
- 8.3 Every control service access, device or facility shall be designed and constructed in accordance with good engineering practice and the requirements of the Engineer, and shall be constructed and maintained by the owner and operator of the premises at the expense of the owner and operator. If the control service access, device or facility is not installed as required, the Engineer may cause it to be installed at the expense of the owner and operator of the premises.
- Where a control service access, device or facility is required, the owner shall ensure that every control service, device or facility installed is at all times accessible for purposes of observing and sampling the wastewater, uncontaminated water and stormwater therein, and measuring the flow of wastewater, uncontaminated water, and stormwater therein.
- 8.5 All commercial food establishments shall have fat, oil and grease separators installed and maintained regularly so as not to allow fat, oil or grease to enter the wastewater facilities controlled by the Village. The owner shall inspect and remove contaminants as necessary and at least once per month and shall keep a record of these activities. The Engineer and Superintendent shall be permitted access to the commercial establishment to inspect the separators, the owner's maintenance records, and to determine compliance with this By-law.

DISCONNECTION

- 9.1 It is a condition of any connection permit that failure to comply with this By-law or Part XIV of the *Municipal Government Act* may result in revocation of approval by the Superintendent upon ten (10) days prior notice to the owner of the property.
- Revocation of a connection permit by the Superintendent may be appealed to the Commissioners within ten (10) days of the communication of the Superintendent's decision to the owner of the property affected, by filing notice of appeal with the Clerk. Notice of appeal shall specify the basis for the appeal and the relief sought.
- 9.3 The Commissioners shall provide the appellant with an opportunity to be heard prior to any decision.
- 9.4 The Commissioners may uphold or reverse the Superintendent's decision or amend it to include terms or conditions.

INSPECTION

10.1 The Engineer and/or Superintendent may inspect, observe, measure, sample and test the wastewater on any premises to determine compliance with this Bylaw.

FEES

Building Service Connection Charge

11.1 Every person who applies for a connection permit from the superintendent shall pay to the Village a "Building Service Connection Charge" for each connection for the administration of the application and inspection of the connection, if inspection is required, in the amount specified in Schedule "B" attached to and forming part of this By-law.

Sanitary Sewer Service Charge

- 11.2 Every owner of land on which any building is connected with, or is required to connect with, the wastewater facilities controlled by the Village, shall pay to the Village a Sanitary Sewer Service Charge for the construction, operation and maintenance of the wastewater facilities of the Village. The Charge may be invoiced annually, semi-annually or quarterly as determined by the Clerk.
- 11.3 The Sanitary Sewer Service Charge shall be calculated as described in Schedule "C" attached to and forming part of this By-law.

OFFENCES

- Any person who contravenes any section of this By-law is guilty of an offence and is liable on conviction to a penalty of not less than \$100.00 and not more than \$5,000.00 and in default of payment to imprisonment for a term of not more than ninety days.
- 12.2 Notwithstanding subsection 12.1, every person who contravenes section 4.1(o) of this By-law is guilty of an offence and is liable on conviction to a penalty of not less than \$1,500 and not more than \$5,000 and in default of payment to imprisonment for a term of not more than 90 days.

COSTS

- 13.1 All costs chargeable in this By-law shall be due and payable from the date they are assessed by the Village.
- 13.2 The Clerk shall notify anyone liable for the costs of the basis for such and the account payable either by mailing notice by regular post to the last known address of such persons or by posting it on the property in respect of which it is charged.
- 13.3 All costs or fees remaining unpaid for more than 30 days subsequent to being due and payable shall bear interest at the same rate as charged by the Village for unpaid rates as taxes.
- All costs, fees and interest thereon may be sued and collected in the name of the Village in the same manner as the ordinary rates and taxes payable to the Village may be sued for and collected, and at the option of the Clerk be collectable at the same time and by the same proceedings and taxes.
- 13.5 All costs and interest thereon shall be a first lien on the property in respect of which it is payable.

REPEAL

14.1 Sewer Charge By-law Number 4 and Sewer Charge By-law Number 5, and any other By-laws or portions of By-laws of the Village regulating connection to wastewater facilities controlled by the Village and/or discharge into wastewater facilities controlled by the Village and/or charges for discharging into wastewater facilities controlled by the Village, are hereby repealed.

EFFECT

15.1 This By-law will take effect on April 1, 2020.

THIS IS TO CERTIFY that the foregoing By-law was duly passed at a duly called meeting of The Commissioners of the Village of Port Williams held the 2/ day of A.D. 2020.

VILLAGE CLERK

MINISTER'S APPROVAL*

DATE

*Effective Date of the By-Law unless otherwise specified in the text of the By-law.

Schedule "A"

Spills

SPILLS

Cost recovery charges in Schedule "A" for Spills and are in addition to the sanitary sewer charges outlined in Schedule "B".

The cost recovery charges shall be the actual costs incurred by the Village as a result of the spill as certified by the Engineer.

Schedule "B"

Building Service Connection Charge

Domestic Waste Connection Charge, including inspection: \$300

Domestic Waste Connection Charge, if no inspection of connection required: \$150

Industrial Waste Connection Charge, whether or not inspection required: \$600

Schedule "C"

Sanitary Sewer Service Charge

- A. Except as specified below, where the sole source of water supplied to the property is the Village Water Commission, the Sanitary Sewer Service Charge shall be calculated as follows:
 - (i) \$240 per annum for water consumption not exceeding 50,000 gallons of water per annum.
 - (ii) \$4.00 per annum for each 1,000 gallons of water consumed per annum that exceeds 50,000 gallons consumed per annum.
- B. Where a property used solely for residential purposes is supplied with water from a source other than the Village Water Commission (although it may also be supplied with water from the Village Water Commission), the Sanitary Sewer Service Charge shall be calculated as follows:
 - (i) \$240 per annum per dwelling unit.
 - (ii) \$4.00 per annum for each 1,000 gallons of water consumed per annum that exceeds 50,000 gallons consumed per annum, all as supplied by the Village Water Commission.
- C. The Sanitary Sewer Service Charge shall be \$240 per annum for each intensive livestock barn connected to the Village wastewater facilities where the barn: is supplied with water from the Village Water Commission; has no more than one toilet, urinal and bathroom sink discharging to the Village wastewater facilities; discharges only domestic waste into such wastewater facilities; and no more than five employees work in the barn.
- D. There is no exemption for water used for swimming pools or irrigation.