

**BYLAW 1402/18**  
**SANITARY SEWER BYLAW**  
**STURGEON COUNTY, MORINVILLE, ALBERTA**

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BYLAW 1402/18 BEING A BYLAW OF STURGEON COUNTY IN THE PROVINCE OF ALBERTA TO REGULATE THE USE OF PUBLIC AND PRIVATE SEWERS AND DRAINS AND THE DISPOSAL OF SEWAGE AND THE DISCHARGE OF STORM WATER AND WASTE INTO THE STURGEON COUNTY SEWAGE SYSTEMS AND TO PROVIDE FOR THE LEVYING AND COLLECTING OF A CHARGE FOR THE USE OF STURGEON COUNTY'S SANITARY SEWER SYSTEM.

**WHEREAS**, the *Municipal Government Act*, RSA 2000 c.M-26, any amendments or successor legislation thereto authorizes a Council may pass bylaws for municipal purposes respecting public utilities; and subject to the provisions of the *Public Health Act* and regulations.

**WHEREAS**, Sturgeon County has constructed and maintains a wastewater collection system consisting of sanitary sewer and lagoon facilities; and

**WHEREAS**, Sturgeon County has entered into joint agreements with adjacent municipalities to provide sewage treatment; and

**WHEREAS**, it is necessary to control the substances discharged into the wastewater collection system to protect both the system and the environment.

NOW THEREFORE BE IT RESOLVED, that the Council of Sturgeon County, hereby enacts as follows:

INTRODUCTION:

1. NAME OF BYLAW
2. DEFINITIONS
3. USE OF PUBLIC SEWERS REQUIRED
4. PRIVATE SEWAGE DISPOSAL
5. SANITARY SYSTEMS AND CONNECTIONS
6. SANITARY SEWER REQUIREMENTS
7. STORM SEWER REQUIREMENTS
8. PROHIBITION OF DILUTION
9. SAMPLING
10. DISCHARGER SELF MONITORING
11. ADDITIONAL REQUIREMENTS
  - 11.1 FOOD-RELATED GREASE INTERCEPTORS
  - 11.2 VEHICLE AND EQUIPMENT SERVICE OIL AND GREASE INTERCEPTORS
  - 11.3 SEDIMENT INTERCEPTORS
  - 11.4 DENTAL WASTE AMALGAM SEPARATOR
  - 11.5 FOOD WASTE GRINDERS
  - 11.6 PRE-TREATMENT FACILITIES
12. HAULED WASTEWATER/WASTE

13. NON-CONTACT COOLING WATER
14. WATER ORIGINATING FROM A SOURCE OTHER THAN THE MUNICIPAL WATER SUPPLY
15. SPILLS
16. AUTHORITY OF DESIGNATED SOURCE CONTROL OFFICER AND/OR ALBERTA CAPITAL REGION WASTEWATER COMMISSION TO INVESTIGATE
17. INTERRUPTION AND DISCONNECTION OF SEWER
18. ACCESS TO INFORMATION
19. MONITORING ACCESS POINTS
20. SERVICE FEES AND OVERSTRENGTH SURCHARGE
21. OFFENCES
22. COMPLIANCE PROGRAMS
23. BEST MANAGEMENT PRACTICES & CODES OF PRACTICE
24. GENERAL

SCHEDULE "A" PROHIBITED WASTES

SCHEDULE "B" RESTRICTED WASTES – SANITARY SEWER DISCHARGES

SCHEDULE "C" WASTEWATER OVERSTRENGTH LIMITS

## INTRODUCTION

This bylaw contains controls for the discharge of pollutants to the sewer system. The objectives of the bylaw are to:

- Protect the sanitary sewer and storm systems from corrosion, other damage and obstruction.
- Protect the wastewater treatment process from upset.
- Protect the public, Alberta Capital Region Wastewater Commission workers, municipal workers and property from hazardous conditions (such as explosions).
- Assist optimum sanitary and storm system efficiency by preventing uncontaminated water from entering the sanitary sewer system.
- Protect wastewater and sludge biosolids quality.
- Protect the environment from contaminants that are not removed by the Alberta Capital Region Wastewater Commission Treatment Plant or lagoon facilities.
- Assist the Alberta Capital Region Wastewater Commission and Sturgeon County in maintaining the operating conditions established by the province of Alberta.

### 1. Name of Bylaw:

This Bylaw may be cited as "The Sturgeon County Sanitary Sewer Bylaw."

### 2. Definitions

In this Bylaw:

- 2.1 "Accredited Laboratory" means any laboratory accredited by an authorized accreditation body in accordance with a standard based on "CAN-P-1585: Requirements for the Accreditation of Environmental Testing Laboratories" established by the Standards Council of Canada, as amended, or "ISO/IEC/EN 17025: General Requirements for Competence of

*Calibration and Testing Laboratories*” established by the International Organization for Standardization, as amended.

- 2.2 ACRWC is the acronym for the Alberta Capital Region Wastewater Commission.
- 2.3 “Additional Overstrength Surcharge” means the rate per kilogram per cubic meter of water consumed and charged to a user who releases wastewater to the sewer that exceeds one or more constituent concentrations set out in Column B of Schedule “C”.
- 2.4 Best Management Practices (BMP)” means an integrated plan to control and reduce the release of restricted and prohibited waste into the sewer to a practicable extent, through methods including physical controls, pretreatment processes, operational procedures, and staff training.
- 2.5 “Biochemical Oxygen Demand (BOD)” means the five-day BOD which is the determination of the molecular oxygen utilized during a five-day incubation period for the biochemical degradation of organic material (carbonaceous demand), and the oxygen used to oxidize inorganic material such as sulphides and ferrous iron, and the amount of oxygen used to oxidize reduced forms of nitrogen (nitrogenous demand) as determined by the appropriate procedure in Standard Methods.
- 2.6 “Biomedical Waste” means biomedical waste as defined in the Province of Alberta’s Waste Control regulation, as amended from time to time.
- 2.7 “Blowdown Water” means recirculating water that is discharged from a cooling or heating water system for the purpose of controlling the level of water in the system or for the purpose of discharging from the system materials contained in the system, the further build-up of which would or might impair the operation of the system.
- 2.8 “Building Drainage System” means the assembly of piping and associated equipment located above, on, or underneath a parcel of land which carries sewage from a building or other place on the parcel of land to the County’s Sanitary Sewer System and which forms a part of the system or works of the public utility
- 2.9 “Catchbasin” means a receptacle for receiving stormwater and retaining sediment from an exterior area or surface.
- 2.10 “Chemical Oxygen Demand (COD)” means a measure of the capacity of water to consume oxygen as a result of oxidation of inorganic chemicals and decomposition of organic matter.
- 2.11 “Clear-Water Waste” means includes non-contact cooling water and other water that has not come into contact with wastewater contaminant sources.
- 2.12 “Code Of Practice” means a set of practices applicable to specific industrial, commercial, or institutional sector operations; a code of practice identifies mandatory procedures, equipment, training, or other provisions required as a condition of wastewater discharge into the wastewater works system by the specified sector discharger. A code of practice may be included in approved Best Management Practices.
- 2.13 “Combustible Liquid” means a liquid that has a flash point not less than 37.8 degrees Celsius and not greater than 93.3 degrees Celsius.

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- 2.14 “Compliance Program” means the necessary steps undertaken by a discharger to bring wastewater discharged into the municipal sewer into compliance with the terms and conditions of this Bylaw or a related permit. Compliance programs are applicable to existing dischargers only; new discharges must fully comply with the requirements of this bylaw.
- 2.15 “Composite Sample” means a volume of wastewater, storm water, uncontaminated water, clear-water, or effluent made up of four or more grab samples that have been combined automatically or manually and taken at intervals during a sampling period.
- 2.16 “Connection or Sanitary Drain” means that part or those parts of any pipe or system of pipes leading directly to a wastewater works.
- 2.17 “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, but does not include blowdown water.
- 2.18 “Customer” means a person who receives sanitary sewer services from Sturgeon County under this bylaw.
- 2.19 “Dental Amalgam” means a dental filling material consisting of an amalgam of mercury, silver and other materials such as copper, tin or zinc.
- 2.20 “Dental Amalgam Separator” means any technology, or combination of technologies, designed to separate dental amalgam particles from dental operation wastewater.
- 2.21 “Designated Sector Operations” means industrial, commercial, or institutional sectors required to adopt Codes of Practice.
- 2.22 “Designated Source Control Officer” means the person appointed by Sturgeon County, and his or her successors or his or her duly authorized representative (the Designated Source Control Officer may hold the position of Utility Manager, Peace Officer, Sturgeon County Utility Technician, ACRWC staff or other position suitable to the Sturgeon County).
- 2.23 “Discharger” means the person releasing, allowing or responsible for the release of wastewater, storm water or uncontaminated water to a sewer.
- 2.24 “Domestic Wastewater” means sanitary waste produced on a residential premises, or sanitary waste and wastewater from showers and restroom washbasins produced on a non-residential property.
- 2.25 “Effluent” means liquid flowing out of a facility or premises into a sewer.
- 2.26 “Fees And Charges Schedule” means Sturgeon County’s Fees and Charges Schedule as amended or replaced from time to time.
- 2.27 “Flashpoint” means the temperature at which enough vapor collects on the surface of a liquid to become flammable. The lower the flashpoint, the more flammable the material is.
- 2.28 “Flow Monitoring Point” means an access place to the private sewer connection for the purpose of:

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- a) Measuring the rate or volume of wastewater, storm water, clear water waste or subsurface water released from the premises; and
  - b) Collecting representative samples of the wastewater, storm water, clear water waste or subsurface water released from the premises.
- 2.29 “Fuels” means alcohol, gasoline, naphtha, diesel fuel, fuel oil or any other ignitable substance intended for use as a fuel.
- 2.30 “General Manager, Infrastructure Services” means General Manager of Infrastructure Services of Sturgeon County or authorized representative.
- 2.31 “Grab Sample” means a volume of wastewater, storm water, uncontaminated water or effluent which is collected over a period not exceeding 15 minutes.
- 2.32 “Ground Water” means water beneath the earth’s surface accumulating as a result of seepage.
- 2.33 “Hauled Waste” means any industrial waste which is transported to and deposited into any location in the wastewater works, excluding hauled wastewater.
- 2.34 “Hauled Wastewater” means waste removed from a wastewater collection system, including a cesspool, a septic tank system, a privy vault or privy pit, a chemical toilet, a portable toilet or a wastewater holding tank.
- 2.35 “Hazardous Substance” means:
- a) Any substance or mixture of substances, other than a pesticide, that exhibits characteristics of flammability, corrosivity, reactivity or toxicity; and
  - b) Any substance that is designated as a hazardous substance within the meaning of the Province of Alberta’s Waste Control Regulation 192/1996, as amended from time to time.
- 2.36 “Hazardous Waste” means any Hazardous Substance disposed of as waste.
- 2.37 “Health Officer” means Medical Officer of Health for Sturgeon Health Unit, or the area or region within which Sturgeon County is located, or any person whom he may delegate a particular duty.
- 2.38 “Ignitable Waste” means a substance that:
- a) Is a liquid, other than an aqueous solution containing less than 24 percent alcohol by volume and has a flash point less than 93 degrees Celsius, as determined by the Tag Closed Cup Tester (ASTM D-56-97a), the Setaflash Closed Cup Tester (ASTM D-3828-97 or ASTM D-3278-96e1), the Pensky-Martens Closed Cup Tester (ASTM D-93-97), or as determined by an equivalent test method;
  - b) Is a solid and is capable, under standard temperature and pressure, of causing fire through friction, absorption of moisture or spontaneous chemical changes and, when ignited, burns so vigorously and persistently that it creates a danger;
  - c) Is an ignitable compressed gas as defined under federal or Alberta provincial regulation; and

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- 2.39 Is an oxidizing substance as defined under federal or Alberta provincial regulation. "Industrial" means of or pertaining to manufacturing, commerce, trade, business or institutions as distinguished from domestic or residential.
- 2.40 "Industry" means any registered owner or operator of industrial, commercial or institutional premises from which there is a discharge of any matter directly or indirectly into a sanitary sewer, or storm sewer of Sturgeon County or the ACRWC.
- 2.41 "Inspector" means a person authorized by Sturgeon County to carry out observations and inspections and take samples as prescribed by this bylaw.
- 2.42 "Institution" means a facility, usually owned by a government, operated for public purposes, such as schools, universities, medical facilities (hospitals, nursing stations, nursing homes), museums, prisons, government offices, military bases. Some of these facilities produce non-residential discharges to sewers from, for example, laboratories, chemical use, industrial processes.
- 2.43 "Interceptor" means a receptacle that is installed to prevent oil, grease, sand, or other materials from passing into a drainage system.
- 2.44 "Lower Explosive Limit (LEL)" means the concentration of a gas or vapor in the air. Below the LEL, there is not enough vapor in the air to fuel a fire.
- 2.45 "Main" means a main sewer line of Sturgeon County's sewer system.
- 2.46 "Matter" means any solid, liquid or gas.
- 2.47 "Member Municipality" means a municipality which is a member of the ACRWC.
- 2.48 "Monitoring Access Point" means an access point, such as a chamber, in a private sewer connection to allow for observation, sampling and flow measurement of the wastewater, uncontaminated water or storm water therein.
- 2.49 "Municipal Sewer Connection" means that part of any drain leading from the private sewer connection and connected to the municipal sewer and located within the limits of the public road allowance, or other public lands or public land interests held for sewerage purposes.
- 2.50 "Multiple Municipal Sewer Connection" means a municipal sewer connection providing service to two or more premises.
- 2.51 "Non-Contact Cooling Water" means water which is used to reduce temperature for the purpose of cooling and which does not come into direct contact with any raw material, intermediate or finished product other than heat.
- 2.52 "Non-Domestic Wastewater" means all Wastewater except Domestic Wastewater, Storm Water, Uncontaminated Water, and Septic Tank Waste.
- 2.53 "Oil and Grease" means Hexane extractable matter as described in Standard Methods.
- 2.54 "Oil – Water Separator" means a three-stage oil-water separator that meets the Standard for Oil-Water Separators (ULC-S656-14) prepared by Underwriters' Laboratories of Canada or the equivalent oil-water separation technology able to achieve an effluent quality of 100 mg/L of oil and grease (mineral-synthetic/hydrocarbons) or less.

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- 2.55 "Overtstrength" mean wastewater released to the sewer that is higher in concentration for one or more constituent concentrations set out in Column A of Schedule "C".
- 2.56 "Overstrength Surcharge" means the rate per kilogram per cubic meter of water consumed and charged to a user who releases wastewater to the sewer that exceeds one or more constituent concentrations set out in Column A of Schedule "C".
- 2.57 "Pathological Waste" means Pathological waste within the meaning of the *Canadian Human Pathogens and Toxins Act*, as amended.
- 2.58 "PCBs" means any monochlorinated or polychlorinated biphenyl or any mixture of them or mixture that contains one or more of them.
- 2.59 "Person" means an individual, association, partnership, corporation, municipality or an agent or employee of such a person.
- 2.60 "Pesticide" means a pesticide regulated under the Canadian *Pest Control Products Act* and the Province of Alberta's Pesticide (Ministerial) Regulation and Pesticide Sales, Handling, Use and Application Regulation, all as amended.
- 2.61 "Premises" means a parcel of land, building or part of a building.
- 2.62 "Pretreatment" means the reduction, elimination or alteration of pollutants in wastewater prior to discharge into the sanitary sewer. This reduction or alteration can be obtained by physical, chemical, or biological processes, through pollution prevention, or by other means, except by diluting the concentration of the pollutants.
- 2.63 "Pretreatment Processes" means one or more treatment processes or devices designed to remove sufficient matter from wastewater discharged into Sturgeon County sanitary sewer system to enable compliance with effluent limits established in this bylaw. Pretreatment processes prevent or reduce and control the discharge or deposit of matter from the discharger's premises into the municipal sewerconnection.
- 2.64 "Private Sewer Connection" means that part of any drain or system of drains, including drains or subsurface drainage pipe for surface or subsurface drainage of the land in or adjacent to a building, lying within the limits of the private lands and leading to the municipal sewer connection, the maintenance of which is the property owner's responsibility.
- 2.65 "Prohibited Waste" means prohibited waste as defined in Schedule "A" of this bylaw.
- 2.66 "Reactive Waste" means a substance that:
- a) Is normally unstable and readily undergoes violent changes without detonating;
  - b) Reacts violently with water;
  - c) Forms potentially explosive mixtures with water;
  - d) When mixed with water, generates toxic gases, vapours or fumes in a quantity sufficient to present danger to human health or the environment;
  - e) Is a cyanide or sulphide bearing waste which, when exposed to pH conditions between 2 and 12.5, can generate toxic gases, vapours or fumes in a quantity sufficient to present danger to human health or the environment;

- f) Is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement;
  - g) Is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure; or
  - h) Is an explosive as defined in the regulations under the *Canadian Explosives Act*, as amended.
- 2.67 "Registered Owner" means a person in whose name the fee simple title to a parcel of land is registered under the *Land Titles Act*.
- 2.68 "Restricted Waste" means restricted waste as defined in Schedule "B" of this bylaw.
- 2.69 "Sampling Port" means a valve, tap, or similar device on equipment, a drain pipe or at another suitable location, to allow for sampling, consistent with technical guidelines that Sturgeon County may establish from time to time.
- 2.70 "Sanitary Drain or Connection" means that part or those parts of any pipe or system of pipes leading directly to a wastewater works.
- 2.71 "Sanitary Fixture" means a drain, sink, toilet or similar fixture that receives sewage.
- 2.72 "Sanitary Service Connection" means piping and associated connections that connects a Sanitary Service Connection to a sanitary sewer.
- 2.73 "Sanitary Sewer" means a sewer for the collection and transmission of domestic or industrial wastewater or any combination thereof.
- 2.74 "Septic Tank Waste" means any waste extracted from a cesspool, septic tank, sewage holding tank, seepage pit, interceptor or other containment for human excretion and wastes.
- 2.75 "Sewage" means household, commercial, and industrial waste conveyed in water.
- 2.76 "Sewer" means a pipe, conduit, drain, open channel or ditch for the collection and transmission of wastewater, storm water or uncontaminated water, or any combination thereof.
- 2.77 "Spill" means a direct or indirect discharge into the wastewater works, storm sewer or the natural environment which is abnormal in quantity or quality in light of all the circumstances of the discharge.
- 2.78 "Standard Methods" means a procedure or method 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 the Water Environment Federation, recent or latest edition or approved in writing by the Designated Source Control Officer.]
- 2.79 "Storm Sewer" means a sewer for the collection and transmission of uncontaminated water, storm water, drainage from land or from a watercourse or any combination thereof but excluding any portion of a combined sewer for the combined collection of wastewater and uncontaminated water or stormwater.
- 2.80 "Storm Water" means the water running off the surface of a drainage area during and immediately after a period of rain or snow melt.



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- 2.81 "Storm Water Charge" means the storm flat rate charge and late payment charge billed to a customer.
- 2.82 "Sturgeon County's Sanitary Sewer System" means the sanitary sewers and associated equipment owned and used by Sturgeon County to carry sewage from the property line of a parcel of land occupied by a customer to the point of discharge or storage.
- 2.83 "Subsurface Drainage Pipe" means a pipe that is installed underground to intercept and convey subsurface water, and includes foundation drain pipes.
- 2.84 "Subsurface Water" means the groundwater including foundation drain water.
- 2.85 "Sump Pump Discharge" means a system, including sump, sump pump and related piping used to convey water collected by a foundation drain.
- 2.86 "Total Suspended Solids (TSS)" means insoluble matter in liquid that is removable by filtration, as determined by the appropriate procedure described in Standard Methods.
- 2.87 "Total PAHS" means the total of all of the following polycyclic aromatic hydrocarbons: Acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysenes, dibenzo(a,h) anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, methyl-naphthalene, naphthalene, phenanthrene, pyrene.
- 2.88 "Toxic Substance" means any substance defined as toxic under the *Canadian Environmental Protection Act, 1999*, as amended from time to time and within the meaning of Alberta's Waste Control Regulation, as amended from time to time.
- 2.89 "Uncontaminated Water" means water with a level of quality which is typical of potable water normally supplied by Sturgeon County.
- 2.90 "Utility Bill" means a billing statement for utilities provided by Sturgeon County, which includes sewer charges.
- 2.91 "Waste" means an unusable or unwanted substance or material; waste material expelled from the body after digestion
- 2.92 "Waste Disposal Site Leachate" means the liquid containing dissolved or suspended contaminants which emanates from waste (solid waste or garbage) and is produced by water percolating through waste or by liquid in waste.
- 2.93 "Waste Radioactive Substances" means substances defined in the federal *Nuclear Safety and Control Act* and the regulations passed thereunder, as amended from time to time.
- 2.94 "Wastewater" means composite of water and water-carried wastes from residential, commercial, industrial or institutional premises or any other source.
- 2.95 "Wastewater Discharge Permit" means a permit issued by the ACRWC which will govern the discharge of non-domestic waste and hauled wastewater/waste into a sewer.
- 2.96 "Wastewater Sludge" means solid material recovered from the wastewater treatment process.

- 2.97 “Wastewater Treatment Facility” means any structure or thing used for the physical, chemical, biological or radiological treatment of wastewater, and includes sludge treatment, wastewater sludge storage and disposal facilities.
- 2.98 “Wastewater Works” means any works for the collection, transmission, treatment and disposal of wastewater, storm water or uncontaminated water, including a sanitary sewer or storm sewer, or any part of such works, but does not include plumbing or other works to which the applicable Building Code applies. Wastewater works, sanitary sewer and sewer in this Bylaw refer to the Works owned by ACRWC and those owned by Sturgeon County which direct wastewater to ACRWC facilities pursuant to the Regional Exchange Agreement entered in 2008.
- 2.99 “Watercourse” means an open channel, ditch or depression, either natural or artificial, in which flow of water occurs either continuously or intermittently.

### 3. USE OF PUBLIC SEWERS REQUIRED

- 3.1 No person shall place or deposit, or permit to be deposited in any manner that is unsanitary in the opinion of Sturgeon County upon public or private property within Sturgeon County or in any area under the jurisdiction of Sturgeon County, any human or animal excrement, garbage or other objectionable waste.
- 3.2 No person shall discharge to any watercourse within Sturgeon County or any area under the jurisdiction of Sturgeon County, any sanitary sewage, industrial wastewater or other polluted water except where suitable pre-treatment has been approved in accordance with subsequent provisions of this bylaw.
- 3.3 No person may operate a system for the collection of sewage within Sturgeon County that is similar to that operated by Sturgeon County, unless that person first obtains the written consent of Sturgeon County. Any consent granted may include conditions.
- 3.4 The registered owner of every house, building or property used for human occupancy, employment, recreation or other purpose, situated within Sturgeon County and abutting on any roadway, street, land or right-of-way in which there is now or hereafter located Sturgeon County’s sanitary sewer system, shall at his own expense, install suitable toilet facilities therein and shall connect such facilities to the sanitary sewer of Sturgeon County with the proper sewer in accordance with the provisions of the *Safety Codes Act* within sixty (60) days of Sturgeon County notifying him to do so.
- 3.5 If a parcel of land is adjacent to a County’s sanitary sewer system, no development may take place on that parcel unless the registered owner connects the parcel to Sturgeon County’s sanitary sewer system in accordance with this bylaw.
- 3.6 Sturgeon County may waive the requirement contained in subsection 3. (5) and may impose conditions on a waiver.
- 3.7 In this section, development has the same meaning as in Part 17 of the *Municipal Government Act*.
- 3.8 A penalty may be imposed indemnifying Sturgeon County for the cost of repair of any damage to Sturgeon County sanitary sewer system.

- 3.9 Permits for sewer service on private property shall first be obtained from Sturgeon County Planning and Development and applications for such permits shall be made on approved forms furnished by Sturgeon County.
- 3.10 The owner shall at his own expense maintain the building sewer from the property line to the building.
- 3.11 The owner shall at his own expense operate and maintain his private wastewater disposal system in a sanitary condition.
- 3.12 No person shall, except as permitted by this bylaw, *Safety Codes Act*, and all relevant federal, provincial and municipal legislation construct or maintain any privy, septic tank, cesspool or other facility intended or used for the disposal of sewage.

#### 4. PRIVATE SCHOOL SEWAGE DISPOSAL

- 4.1 Where a sanitary sewer of Sturgeon County is not available, the registered owner of a house, building or property as described in Section 2. (6), may connect the Sanitary Service Connection to a private sewage disposal system which shall comply with the provisions of this bylaw, *Safety Codes Act*, the Provincial Plumbing Code and the regulations of the Provincial Board of Health (all relevant Federal, Provincial, and Municipal legislation).
- 4.2 At such time as a sanitary sewer of Sturgeon County becomes available to a property served by a private sewage disposal system, the provisions of Section 4. (1) shall then apply to the property and a direct connection shall be made to the sanitary sewer of Sturgeon County and any septic tanks, cesspools or similar private sewage disposal facilities shall be abandoned and filled with suitable material upon request of Sturgeon County.
- 4.3 Sturgeon County will repair the system on municipal property, with municipal forces, if the Sanitary Service Connection is crushed or broken or if there is a faulty installation and will be responsible for the costs. Plugged, clogged or obstructed service lines will be the responsibility of the registered owner.
- 4.4 The registered owner shall, at his own expense, operate and maintain his private sewage disposal system in a sanitary condition.
- 4.5 Nothing contained in this bylaw shall be construed to interfere with any additional requirements that may be imposed by the Health Officer.

#### 5. BUILDING DRAINAGE SYSTEMS AND CONNECTIONS

- 5.1 No person shall uncover, make any connection with or opening into, use, alter or disturb a sewer of Sturgeon County or appurtenances thereof, unless he has been authorized in writing to do so by the Designated Source Control Officer.
- 5.2 All Sanitary Services from the sewer main to the property line shall be constructed by municipal forces or to Sturgeon County standards where special agreements have been signed. In all cases, Sturgeon County shall be supplied with the size and accurate location of all sanitary sewer connections to Sturgeon County sewer system.
- 5.3 No person may connect any piping or fixture to Sturgeon County sanitary sewer system without first obtaining the approval of the Designated Source Control Officer.

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- 5.4 When required by the Designated Source Control Officer the owner of the property serviced by a sewer shall install a suitable sampling manhole in the sewer service for determining the wastewater quality, temperature, rate of flow and other measurements. Such manhole shall be:
- a) Located and constructed in accordance with the plans approved by an Inspector in accordance with the Engineering Servicing Standards; and
  - b) Installed and maintained at all times by the owner at their own expense.
- 5.5 Sturgeon County is responsible for Sturgeon County's sanitary sewer system to the point of connection with a sanitary service connection at the registered owner's property line.
- 5.6 Sturgeon County is not responsible for any damage to sanitary fixtures, sanitary drainage systems or sanitary sewer connections as a consequence of any failure of any connection to Sturgeon County's sanitary sewer system.
- 5.7 No person shall connect private sewers to any County sanitary or storm sewer without first having made written application to Sturgeon County on forms supplied by Sturgeon County and being granted written permission to make such connection.
- 5.8 Sturgeon County may require the following information as part of the application process:
- a) Construction drawings identifying the proposed connection, associated piping, fittings and installations, and any other information required by the Designated Source Control Officer;
  - b) The applicant's interest in the land;
  - c) Payment of any off site levies or any other outstanding amounts in relation to the property that are due to Sturgeon County; and
  - d) Payment of any amounts due under the Development Agreements in relation to the property.
- 5.9 No sanitary service connection on private property shall be constructed unless it conforms to requirements of this bylaw and the Provincial Plumbing Code. Such sewers shall be constructed by the registered owner's forces and at his expense.
- 5.10 Permits for sanitary service connections on private property shall be obtained from Sturgeon County and applications for such permits shall be made on approved forms furnished by Sturgeon County. Such permit applications shall be supplemented by any plans, specifications or other information considered pertinent by Sturgeon County including but not limited to: size and type of materials of the piping, fittings and installations; the depth at which the pipe will be buried; and the grade on which the piping will be installed.
- 5.11 The registered owner shall, at his own expense, construct and maintain the sanitary service system from his building to Sturgeon County's sewer system.
- 5.12 The registered owner's obligations under subsection (9) include but are not limited to:
- a) Maintaining the sanitary drainage and sanitary service connection in a state of good repair;

- b) Protecting the sanitary drainage and sanitary service connection from freezing or damage of any other sort; and
- c) Ensuring that sanitary fixtures, sanitary drainage and sanitary service connections do not leak.

5.13 Notwithstanding subsections (8) and (9), Sturgeon County may construct, inspect, maintain or repair the building drainage system and sanitary service connection for any property or premises. All costs associated with the said construction, inspection, maintenance or repair are amounts owing to Sturgeon County by the registered owner of the property or premises.

5.14 In the event that any sanitary sewer connection is abandoned, the registered owner, at his expense, shall effectively block up the connection at a suitable location within his property in order to prevent sewage backing up and to guard against soil or dirt being washed into the sewer.

5.15 Connections of private storm water drainage system or a weeping tile system to a sanitary fixture, sanitary drainage system, or sanitary sewer system are prohibited.

#### 5A RIVIÈRE QUI BARRE

5A.1 The County may as a condition of providing sanitary sewer service to premises located within the Rivière Qui Barre area require a registered owner to arrange and pay for the construction and installation of a septic tank and sanitary service connection acceptable to the County on the premises (for the purposes of this section collectively referred to as a "service connection").

5A.2 Notwithstanding section 5A(1) if a registered owner of premises within the Rivière Qui Barre area enters into an agreement with the County prior to July 15, 2015 which authorizes the County to install a service connection from an existing building on the premises to the property line, so as to allow the work to be carried out by the County or its contractor as a part of the County's construction of the main sanitary sewer line, the County may in its sole discretion forgive a portion of the cost of such requested installation. The agreement entered into between the County and the registered owner shall provide that if payment of the cost of installation of such service connection is not made when due, the entire cost is an amount owing to the County by the registered owner.

5A.3 If the registered owner of premises within the Rivière Qui Barre area does not enter into an agreement with the County pursuant to section 5A(2) of this Bylaw the registered owner shall at its sole expense arrange and pay for the construction and installation of the necessary service connection no later than September 1, 2015.

5A.4 The County shall have the right of inspection where it does not install a service connection pursuant to this section. The registered owner shall advise the County in advance of the proposed installation and shall allow the County reasonable opportunity to inspect the installation for conformance to County standards and specifications. Persons excavating for service connections shall not backfill until a request for inspection has been made to the County and the County has done an inspection and approved the installation. When

making a request for an inspection, a 24-hour notice will be required by the County and inspection will be done only during regular work hours. Persons backfilling before requesting and receiving an inspection may be required by the inspector to dig out and expose the service connection so that a proper inspection can be done.

5A.5 If the registered owner does not arrange and pay for the construction and installation of the necessary service connection in accordance with Section 5A.3 then the County or its contractor may at its sole discretion enter onto the premises and construct and install the service connection. All costs associated with said construction and installation are amounts owing to the County by the registered owner of the premises.

5A.6 The provisions of Sections 5.9 to 5.12 of this Bylaw as they relate to maintenance shall apply to service connections constructed and installed in accordance with this section of the Bylaw.

## 6. SANITARY SEWER REQUIREMENTS

6.1 No person shall release, or permit the release of, any matter into Sturgeon County's sanitary sewer system wastewater works except:

- a) Domestic wastewater;
- b) Non-domestic wastewater that complies with the requirements of this bylaw;
- c) Hauled wastewater, including septic tank waste, that complies with the requirements of this bylaw, or where a Waste Discharge Permit has been issued by the ACRWC and approved by the Designated Source Control Officer;
- d) Storm water, clear-water waste, surface water, road run-off, cooling water, uncontaminated water, subsurface water or other matter where a Waste Discharge Permit has been issued by the ACRWC and approved by the Designated Source Control Officer. No person shall release, or permit the release of, any prohibited substance listed in Schedule "A" of this bylaw into the wastewater works.

6.2 No person shall release, or permit the release of, any prohibited substance listed in Schedule "A" of this Bylaw into the wastewater works.

6.3 No person shall release, or permit the release of, any restricted substance which exceeds the respective concentrations listed in Schedule "B" of this bylaw into the wastewater works without a valid Wastewater Discharge Permit.

6.4 When required by Sturgeon County non-domestic and hauled wastewater dischargers shall complete and submit an "**Abbreviated Wastewater Discharge Application**" (available on ACRWC website: [www.ACRWC.ab.ca](http://www.ACRWC.ab.ca)) to ACRWC.

6.5 When required by Sturgeon County, non-domestic and hauled wastewater dischargers shall complete and submit a "**Detailed Wastewater Discharge Application**" (available on ACRWC website: [www.ACRWC.ab.ca](http://www.ACRWC.ab.ca)) to ACRWC.

6.6 When required by Sturgeon County, non-domestic and hauled wastewater dischargers shall not discharge to the wastewater works system until the discharger has obtained a "Wastewater Discharge Permit" from ACRWC.

- 6.7 Sturgeon County and the ACRWC may issue, and amend, a Waste Discharge Permit to allow the discharge of non-domestic waste and hauled wastewater into a sewer upon such terms and conditions as the Designated Source Control Officer and ACRWC considers appropriate and without limiting the generality of the foregoing, may in the Waste Discharge Permit:
- a) Place limits and restrictions on the quantity, composition, frequency and nature of the wastewater permitted to be discharged;
  - b) Require the holder of a Waste Discharge Permit to repair, alter, remove, or add to works or construct new works; and
  - c) Provide that the Waste Discharge Permit will expire on a specified date, or upon the occurrence of a specified event.

## 7. STORM SEWER REQUIREMENTS

- 7.1 Storm water and all other uncontaminated water and drainage from land or a watercourse shall be discharged to such sewers as are specifically designed as storm sewers, or to a watercourse approved by Alberta Environment and Parks.
- 7.2 Except as otherwise provided in this bylaw and subject to the *Environmental Protection and Enhancement Act*, no person shall discharge into any watercourse any wastewater.
- 7.3 No person shall release, or permit the release of, any discharge of which may interfere with the proper operation of the storm sewer, impair or interfere with any treatment process or become a hazard to persons, property or animals.
- 7.4 No person shall release, or permit the release of, any prohibited substance listed in Schedule "A" of this bylaw into a storm sewer.
- 7.5 All building downspouts and sump pump discharges shall have a drainage extension securely fastened or placed to direct drainage from a roof run-off collection system or foundation drain toward a street, lane or right-of-way. The sump pump discharge shall be installed by the registered owner in such a manner as to comply with all Sturgeon County bylaws and policies and other applicable regulatory authorities and without causing excessive ponding or icing on public or private property. The registered owner shall be solely responsible for ensuring the sump pump discharge is properly designed, installed, and operated. Exceptions may be granted by the Designated Source Control Officer under extreme circumstances.
- 7.6 The owner of any existing building, erection or structure situated within Sturgeon County and abutting on any street, lane, or right-of-way in which a storm sewer service is constructed and for which a storm sewer service is provided shall connect the foundation drain of the building erection or structure to the storm sewer service within sixty days of the Designated Source Control Officer notifying the owner to do so.
- 7.7 Catchbasins on private property shall be maintained by the registered owner at his/her sole cost and expense. Catchbasins initiated on private property shall be installed in conformance with Sturgeon County Engineering standards.

## 8. PROHIBITION OF DILUTION

- 8.1 No person shall discharge directly or indirectly, or permit the discharge or deposit of wastewater into Sturgeon County sanitary sewer system where water has been added to the discharge for the purposes of dilution to achieve compliance with Schedule "A" or Schedule "B" of this bylaw.
- 8.2 No person shall discharge directly or indirectly, or permit the discharge or deposit of matter into a storm sewer where water has been added to the discharge for the purposes of dilution to achieve compliance with Schedule "A" of this bylaw.

## 9. SAMPLING

- 9.1 Where sampling is required for the purposes of determining the concentration of constituents in the wastewater, storm water or uncontaminated water, the sample may:
- be collected manually or by using an automatic sampling device; and
  - contain additives for its preservation.
- 9.2 For the purpose of determining compliance with Schedule "A", or "B" discrete wastewater or stormwater streams within premises may be sampled, at the discretion of the Designate Source Control Officer.
- 9.3 Any single grab sample may be used to determine compliance with Schedules "A" and "B".
- 9.4 All tests, measurements, analyses and examinations of wastewater or stormwater, its characteristics or contents pursuant to this bylaw shall be carried out in accordance with "Standard Methods" and be performed by an Accredited Laboratory for analysis of the particular substance(s) using a method which is within the laboratory's scope of accreditation or to the satisfaction of the Designated Source Control Officer as agreed in writing prior to sample analysis.

## 10. DISCHARGER SELF MONITORING

- 10.1 The discharger shall complete any monitoring or sampling of any discharge to a wastewater works as required by Sturgeon County, and provide the results to Sturgeon County in the form specified by the Designated Source Control Officer.
- 10.2 The obligations set out in or arising out of Section 10.1 shall be completed at the expense of the discharger.

## 11. ADDITIONAL REQUIREMENTS

### 11.1 FOOD-RELATED GREASE INTERCEPTORS

- 11.1.1 Every owner or operator of a restaurant or other industrial, commercial or institutional premises where food is cooked, processed or prepared, for which the premises is connected directly or indirectly to Sturgeon County sanitary sewer, shall take all necessary measures to ensure that oil and grease are



prevented from entering sanitary sewer in excess of the provisions of this bylaw. Oil & Grease interceptors shall not discharge to storm sewers.

- 11.1.2 The owner or operator of a premises referred to in Subsection 11.1.1 shall install, operate, and properly maintain an oil and grease interceptor in any piping system at its premises that connects directly or indirectly to a sanitary sewer. The oil and grease interceptors shall be installed in compliance with the most current requirements of the applicable Building Code, and as amended.
- 11.1.3 All oil and grease interceptors shall be maintained in good working order according to the manufacturer's recommendations. The testing, maintenance and performance of the interceptor shall meet the requirements of CAN/CSA B-481. Traps should be cleaned before the thickness of the organic material and solids residuals is greater than twenty-five (25) percent of the available volume; cleaning frequency should not be less than every four weeks. Maintenance requirements should be available at the workplace in proximity to the grease interceptor. Maintenance and clean out shall be documented at the time it is performed.
- 11.1.4 A maintenance schedule and record of maintenance carried out shall be submitted to the Designated Source Control Officer upon request for each interceptor installed.
- 11.1.5 The owner or operator of the restaurant or other industrial, commercial or institutional premises where food is cooked, processed or prepared, shall maintain for a period of two years, keep the record which document the maintenance and clean-outs performed for interceptor clean-out of oil and grease disposal.

## 11.2 VEHICLE AND EQUIPMENT SERVICE OIL AND GREASE INTERCEPTORS

- 11.2.1 Every owner or operator of a vehicle or equipment service station, repair shop or garage or of an industrial, commercial or institutional premises or any other establishment where motor vehicles are repaired, lubricated or maintained and where the sanitary discharge is directly or indirectly connected to a sanitary sewer shall install an oil and grease interceptor designed to prevent motor oil and lubricating grease from passing into the sanitary sewer in excess of the provisions of this bylaw. Oil and Grease interceptors shall not discharge to storm sewers.
- 11.2.2 The owner or operator of the premises referred to in Subsection 11.2.1 shall install, operate, and properly maintain an oil and grease interceptor in any piping system at its premises that connects directly or indirectly to sewer. The oil and grease interceptors shall be installed in compliance with the most current requirements of the applicable Building Code and be maintained as recommended by the Canadian Fuels Association (formerly the Canadian Petroleum Products Institute).
- 11.2.3 All oil and grease interceptors and separators shall be maintained in good working order and according to the manufacturer's recommendations and shall be inspected regularly to ensure performance is maintained to the

manufacturer's specifications for performance and to ensure the surface oil and sediment levels do not exceed the recommended level. In the absence of manufacturer's recommendations, the floating oil and grease shall not accumulate in the final stage chamber of the oil and grease separator in excess of 5% of the wetted height and the settled solids shall not accumulate in the final stage chamber of the oil and grease separator in excess of 25% of the wetted height. Maintenance and clean out shall be documented at the time it is performed.

- 11.2.4 A maintenance schedule and record of maintenance shall be submitted to the Designated Source Control Officer upon request for each oil and grease interceptor installed.
- 11.2.5 The owner or operator of the premises as set out in Subsection 11.2.1, shall, for two years keep the the records which document the maintenance and clean outs performed for the interceptor clean-out and of oil and grease disposal.
- 11.2.6 Emulsifiers shall not be discharged to the sewer system into interceptors. No person shall use enzymes, bacteria, solvents, hot water or other agents to facilitate the passage of oil and grease through an oil and grease interceptor.
- 11.2.7 In the case of failure to adequately maintain the oil and grease interceptor to the satisfaction of the Designated Source Control Officer, the Designated Source Control Officer may require an alarmed monitoring device be installed, at the expense of the registered owner.

### 11.3 SEDIMENT INTERCEPTORS

- 11.3.1. Every owner or operator of the premises from which sediment may directly or indirectly enter Sturgeon County sewer, including but not limited to premises using a ramp drain or area drain and vehicle wash establishments, shall take all necessary measures to ensure that such sediment is prevented from entering the drain or sewer in excess of the limits in this bylaw.
- 11.3.2. All sediment interceptors shall be maintained in good working order according to manufacturer's recommendations and shall be inspected regularly to ensure performance is maintained to the manufacturer's specifications for performance. In the absence of manufacturer's recommendations, the settled solids shall not accumulate in the final stage chamber of the sediment interceptor in excess of 25% of the wetted height. Maintenance and clean out shall be documented at the time it is performed.
- 11.3.3. The owner or operator of a premises referred to in Subsection 11.3.1 shall for 2 years keep the records which document interceptor clean-out and sediment disposal.
- 11.3.4. A maintenance schedule and record of maintenance shall be submitted to the Designated Source Control Officer upon request for each sediment interceptor installed.

#### 11.4 DENTAL WASTE AMALGAM SEPARATOR

- 11.4.1. Every owner or operator of the premises from which dental amalgam may be discharged, which waste may directly or indirectly enter Sturgeon County sewer system, shall install, operate and properly maintain dental amalgam separator(s) with at least 95% efficiency in amalgam weight and certified *ISO 11143 – “Dentistry - Amalgam Separators”*, in any piping system at its premises that connects directly or indirectly to Sturgeon County sanitary sewer, except where the sole dental-related practice at the premises consists of one or more of the following specialties or type of practice:
- a) Orthodontics and dentofacial orthopaedics;
  - b) Oral and maxillofacial surgery;
  - c) Oral medicine and pathology;
  - d) Periodontics; or
  - e) A dental practice consisting solely of visits by a mobile dental practitioner who prevents any dental amalgam from being released directly or indirectly to Sturgeon County’s sanitary sewer system.
- 11.4.2. Notwithstanding compliance with Subsection 11.4, all persons operating or carrying on the business of a dental practice shall comply with Schedule “A” and “B” of this bylaw.
- 11.4.3. All dental waste amalgam separators shall be maintained in good working order and according to the manufacturer’s recommendations.
- 11.4.4. A maintenance schedule and record of maintenance shall be submitted to the Designated Source Control Officer upon request for each dental amalgam separator installed.

#### 11.5 FOOD WASTE GRINDERS

- 11.5.1. In the case of industrial, commercial, or institutional premises where food waste grinding devices are installed in accordance with the Building Code, the effluent from such food waste grinding devices must comply with Schedule “A” and Schedule “B”.

#### 11.6 PRE-TREATMENT FACILITIES

- 11.6.1. Where required by the Designated Source Control Officer, the owner or operator shall install on the premises, and prior to the monitoring access point or sampling point, a wastewater pretreatment facility at his/her sole expense.
- 11.6.2. The owner or operator shall ensure the design, operation and maintenance of the pretreatment facility achieves the treatment objectives and operated and is maintained in accordance with the manufacturer’s recommendations.

- 11.6.3. The owner or operator shall not deposit the waste products from the pretreatment facility.
- 11.6.4. The owner or operator in a wastewater works shall ensure any waste products from the pretreatment facility are disposed of in a safe manner.
- 11.6.5. The maintenance records and waste disposal records shall be submitted to the Designated Source Control Officer upon request.
- 11.6.6. The owner or operator shall keep documentation pertaining to the pretreatment facility and waste disposal for a two year period.

## 12. HAULED WASTEWATER/WASTE

12.1 No person shall discharge hauled wastewater/waste to the wastewater works unless:

- a) The carrier of the hauled wastewater/water is operating as a waste management system and is certified according to all applicable federal and provincial legislation, as amended from time to time;
- b) The carrier meets all conditions for discharge that are or may be set from time to time with respect to the discharge of hauled wastewater/waste by the Designated Source Control Officer; and
- c) Hauled wastewater/waste meets the conditions set out in all applicable federal and provincial environment protection regulations, as amended from time to time

12.2 No person shall discharge or permit the discharge of hauled wastewater/waste:

- a) At a location other than a hauled wastewater/waste discharge location approved by the Designated Source Control Officer;
- b) Without a manifest, in a form approved by the Designated Source Control Officer in which the hauled wastewater/waste is being discharged, completed and signed by the carrier and deposited in an approved location at the time of discharge.
- c) Without the use of a discharge hose placed securely in the discharge port at the approved location.

## 13. NON-CONTACT COOLING WATER

13.1 The discharge of non-contact cooling water or uncontaminated water to sanitary sewer or from any residential property is prohibited unless the discharge is in accordance with a Wastewater Discharge Permit:

- a) In the case of a proposed building, no storm sewer exists adjacent to the building and no opportunity exists to discharge to yard drainage; or
- b) In the case of an existing building, no storm connection exists to the building.

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**14. WATER ORIGINATING FROM A SOURCE OTHER THAN THE MUNICIPAL WATER SUPPLY**

14.1 The discharge of water originating from a source other than Sturgeon County's water supply including storm water or groundwater, directly or indirectly to sanitary sewer is prohibited, unless the discharge is in accordance with a Wastewater Discharge Permit.

**15. SPILLS**

15.1 In the event of a spill to a wastewater works, the person responsible or the person having the charge, management and control of the spill shall immediately notify and provide any requested information with regard to the spill to:

- a) If there is any immediate danger to human health and/or safety:
  - i. 9-1-1 emergency.
- b) Or, if there is no immediate danger:
  - i. Sturgeon County by contacting the Utilities Department through the main switchboard 780-939-4321 or answering service, and
  - ii. The ACRWC Control Room at 780-416-9967
  - iii. The registered owner of the premises where the release occurred, and
  - iv. Any other person whom the person reporting knows or ought to know may be directly affected by the spill release.

15.2 Provide a detailed report on the spill to Sturgeon County, within five working days after the spill, containing the following information to the best of his or her knowledge:

- a) Location where spill occurred;
- b) Name and telephone number of the person who reported the spill and the location and time where and when they can be contacted;
- c) Date and time of spill;
- d) Material spilled;
- e) Characteristics and composition of material spilled;
- f) Volume of material spilled;
- g) Duration of spill event;
- h) Work completed and any work still in progress in the mitigation of the spill;
- i) Preventive actions being taken to ensure a similar spill does not occur again; and
- j) Copies of applicable spill prevention and spill response plans.

15.3 The person responsible for the spill and the person having the charge, management and control of the spill shall do everything reasonably possible to contain the spill, protect the health and safety of citizens, minimize damage to property, protect the environment, clean up the spill and contaminated residue and restore the affected area to its condition prior to the spill.

- 15.4 Nothing in this bylaw relieves any persons from complying with any notification or reporting provisions.
- 15.5 Sturgeon County may invoice the person responsible for the spill to recover costs of time, materials and services arising as a result of the spill. The person responsible for the spill shall pay the costs invoiced.
- 15.6 Sturgeon County may require the person responsible for the spill to prepare and submit a spill contingency plan to Sturgeon County to indicate how risk of future incidents will be reduced and how future incidents will be addressed.

**16. AUTHORITY OF DESIGNATED SEWER OFFICER TO INVESTIGATE**

- 16.1 The Designated Source Control Officer has the authority to carry out any inspection reasonably required to ensure compliance with this bylaw, including but not limited to:
- a) Inspecting, observing, sampling and measuring the flow in any private:
    - i. sewer,
    - ii. wastewater disposal system, and
    - iii. flow monitoring point;
  - b) Determine water consumption by reading water meters;
  - c) Test flow measuring devices;
  - d) Take samples of wastewater, storm water, clear-water waste and subsurface water being released from the premises or flowing within a private drainage system;
  - e) Perform on-site testing of the wastewater, storm water, clear-water waste and subsurface water within or being released from private drainage systems, pretreatment facilities and storm water management facilities;
  - f) Collect and analyze samples of hauled wastewater coming to a discharge location into the waterworks;
  - g) Make inspections of the types and quantities of chemicals being handled or used on the premises in relation to possible release to the waterworks;
  - h) Require information from any person concerning a matter;
  - i) Inspect and copy documents or remove documents from premises to make copies;
  - j) Inspect chemical storage areas and spill containment facilities and request Safety Data Sheets (SDS) for materials stored or used on site;
  - k) Inspect the premises where a release of prohibited or restricted waste or of water containing prohibited or restricted wastes has been made or is suspected of having been made, and to sample any or all matter that could reasonably have been part of the release.
- 16.2 No person shall hinder or prevent the Designated Source Control Officer from carrying out any of their powers or duties.

16.3 If an inspection discloses any act or omission contrary to the provisions of this bylaw or the inspection discloses any defect or insufficiency in the location, construction, design or maintenance any equipment in connection with the wastewater discharge, the Designated Source Control Officer may direct the registered owner of the premises to correct the act or omission or any defect or insufficiency.

#### 17. INTERRUPTION AND DISCONNECTION OF SEWER

17.1 Despite anything in this bylaw, Sturgeon County may interrupt the provision of sanitary sewer services to a single customer up to and including all customers for any of the construction of, maintenance or repairs to Sturgeon County sanitary sewer system or other utility; or as a result of any emergency.

17.2 If Sturgeon County gives notice of an interruption of sanitary sewer services, it is unlawful to deposit anything, including sewage into a sanitary fixture or building drainage system, in the area affected by the interruption.

17.3 The Designated Source Control Officer may, in addition to any other remedy available, disconnect, plug or seal off the sanitary sewer discharging unacceptable wastewater into Sturgeon County sanitary sewer system or take such other action as is necessary to prevent such wastewater from entering the wastewater works. Unacceptable wastewater is considered wastewater which:

- a) Is hazardous or creates an immediate danger to any person;
- b) Endangers or interferes with the operation of the wastewater works and/or the wastewater treatment processes; or
- c) Causes or is capable of causing an adverse effect.

17.4 Wastewater may be prevented from being discharged into Sturgeon County sanitary sewer system until evidence satisfactory to the Designated Source Control Officer has been provide confirmation that no further discharge of hazardous wastewater will be made to Sturgeon County sanitary sewer system.

17.5 Where the General Manager, Infrastructure Services takes action pursuant to Section 16. (3), the Designated Source Control Officer may by notice in writing advise the owner or occupier of the premises from which the wastewater was being discharged, of the cost of taking such action and the owner or occupier, as the case may be, shall forthwith reimburse Sturgeon County for all such costs which were incurred.

#### 18. ACCESS TO INFORMATION

18.1 All information submitted to and collected by Sturgeon County that is contained in plan summaries, reports, surveys, monitoring and inspection and sampling activities will, except as otherwise provided in this section, be available for disclosure to the public in accordance with the requirements of the *Freedom of Information and Protection of Privacy Act*.

18.2 In the event that any person in submitting information to Sturgeon County, as required under this article, where such information is confidential or proprietary or otherwise, may

be exempt from disclosure under the Freedom of Information and Protection of Privacy Act, the person submitting the information shall so identify that information upon its submission to Sturgeon County and where such information is confidential or proprietary or otherwise, may be exempt from disclosure.

#### 19. MONITORING ACCESS POINTS

19.1 The owner or operator of industrial, commercial, or institutional premises or multistorey residential buildings with multiple municipal sewer connections shall install and maintain in good repair in each private sewer connection a suitable monitoring access point to allow observation, sampling and flow measurement of the wastewater, uncontaminated water or storm water therein, provided that, where installation of a monitoring access point is not possible, an alternative device or facility may be substituted with the prior written approval of the Designated Source Control Officer:

- a) when the sewer connection is new;
- b) when the premises is redeveloped; and
- c) when required to do so by ACRWC and the Member Municipality.

19.2 The monitoring access point or alternative device or facility such as a sampling port shall be located on the property of the owner, industrial, commercial or institutional premises as close to the property line as possible, unless the Designated Source Control Officer has given prior written approval for a different location.

19.3 Each monitoring access point, alternative device or facility installed shall be designed and constructed in accordance with good engineering practice, shall be accessible and safely located, shall meet the requirements of the Designated Source Control Officer, and shall be constructed and maintained by the owner or operator of the premises at his or her expense.

19.4 The owner or operator of an industrial, commercial or institutional premises or a multistorey residential building shall at all times ensure that every monitoring access point, alternative device or facility installed as required by this bylaw is accessible to the Designated Source Control Officer for the purposes of observing, sampling and flow measurement of the wastewater, uncontaminated water or storm water therein.

19.5 The following discharger activities require sampling ports when it is not possible to install a monitoring access point:

- a) Dental offices;
- b) Businesses using photographic processing units.

#### 20. SERVICE FEES AND OVERSTRENGTH SURCHARGE

20.1 The charges and rates for sewer service and storm service provided by Sturgeon County, shall be those rates and charges set out in Sturgeon County's Fees and Charges Schedule.



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- 20.2 Sturgeon County may assess Overstrength and Additional Overstrength Surcharges for wastewater discharges that exceed the limits of treatable parameters set out in Schedule "C".
- 20.3 Testing of the wastewater being discharged into the sanitary sewer to determine Overstrength Surcharges shall be conducted by Sturgeon County or the ACRWC, or discharge to the satisfaction of Sturgeon County and the ACRWC that a representative sample is obtained, using automated sampling devices or in accordance with the following manual sampling protocol:
- a) Samples from the wastewater produced at a location will be collected each day for a minimum of two days;
  - b) A minimum of four grab samples of equal volume shall be taken each day, such samples to be taken at least one hour apart;
  - c) The analysis shall be conducted on a composite sample made of each day's grab samples;
  - d) The respective results of these tests for each of the days on which samples are taken, shall be averaged to determine the characteristics and concentration of the effluent being discharged into the wastewater system.
- 20.4 The Overstrength and Additional Overstrength Surcharge Rates will be reviewed and adjusted accordingly from time to time as determined by Sturgeon County.
- 20.5 All customers shall be obligated to pay the fees, rates and charges levied on all lands served by or connected to Sturgeon County wastewater works which are set out in Sturgeon County's Fees and Charges Schedule.
- 20.6 The customer may pay the utility bill either at the address indicated on the utility bill, during usual office hours; or any other place or in any other manner specified by Sturgeon County.
- 20.7 If a customer has posted a deposit for any utility service, Sturgeon County may apply the deposit to any amount that is in arrears for sewer charges or any other amount owing under this bylaw; or apply it to the final account of the customer on termination of the sanitary sewer service or storm service. No interest is payable by Sturgeon County on a deposit.
- 20.8 If Sturgeon County issues a utility bill that contains an error in calculation of the sewer charge, Sturgeon County may issue a supplementary utility bill that corrects the error. The supplementary bill can either charge the amount of any understatement or refund any overpayment of the sewer charge to the customer. A refund may be applied to a future utility billing.
- 20.9 Any sewer account remaining unpaid after the date fixed for payment, a penalty as Council may establish by resolution from time to time will be added to the principal outstanding amount thereto and form part of the rates levied.
- 20.10 All accounts which remain unpaid on the 15<sup>th</sup> day of the month following that month in which the account is rendered, shall be subject to sewer service being disconnected.

- 20.11 As a condition of providing sewer service, the Designated Source Control Officer may require a guarantee deposit from the customer. The guarantee deposit shall be equal to estimated charges for sewer service for a 60 day billing. The Designated Source Control Officer may at any time require that a guarantee deposit be increased if the actual charges levied during a 90 day billing period exceeds the estimate on which the guarantee deposit was based.
- 20.12 Sturgeon County may enforce payment of any amount owing under this bylaw by any or all of the following: adding the amount owing to the tax roll of the lands to which the service is provided, is connecting the water supply action in any court of competent jurisdiction.
- 20.13 Sturgeon County is not obligated to waive payment of a sewer charge or a late payment charge because the customer did not receive the utility bill or mislaid it.
- 20.14 A reconnection fee, as set out in Sturgeon County's Fees and Charges Schedule, shall be charged to any person whose sewer service has been terminated, due to any breach of, or non compliance of any provision of this bylaw or a Board of Health regulation, or for failure to pay the rates, tolls, charges, and fees for sewer service.
- 20.15 Sewer service shall not be restored until a reconnection fee, as stated in Section (20) of this bylaw, plus all outstanding rates or charges have been paid.
- 20.16 Where no meter or other exact means exist to determine the quantity of water with which any property is served, the Designated Source Control Officer or designate, shall make an estimate of such quantity for the purpose of determining the sewer service charges and such estimate shall be final and conclusive. The registered owner or occupant of any property may, however, at his own expense, install and maintain an approved type meter upon which the charges shall thereupon be determined.
- 20.17 Customers wishing to close their accounts must request a turn off order at least two working days before the order is to become effective. Sturgeon County may continue to levy charges in accordance with the rates and charges established by Sturgeon County Council until an account is closed.

## 21. OFFENCES

- 21.1 If the registered owner or occupier of any building, which building under the provisions of this bylaw is required to be connected with Sturgeon County sanitary sewer system or Sturgeon County storm sewer, or both, shall neglect or refuse to make such required connection in accordance with the provision of this bylaw for a period of sixty (60) days after notice in writing, which has been given to him personally or by registered mail, by Sturgeon County, or to prosecute the work without delay, or to the satisfaction of Sturgeon County then and in that case Sturgeon County shall, at the expense of the person who is in default, make or repair the said connection and Sturgeon County may recover the expenses thereof with costs, by any court of competent jurisdiction or in like manner as municipal taxes.
- 21.2 The person giving such notice described in Section 21.1 shall post a copy of the notice on the front door or some other conspicuous part of the building referred to in the notice. No person shall tear down or deface any notice so posted.

- 21.3 No person shall continue in violation of any provision of this bylaw for more than sixty (60) days after receiving written notice from Sturgeon County for such violation. Such notice shall be sufficiently served if forwarded by registered mail to the registered owner's last known address.
- 21.4 Any person who contravenes any provision of this bylaw is guilty of an offence and on conviction is liable, for every day or part thereof upon which such offence occurs or continues, to a fine of not more than \$1,000 for a first offence and \$2,500 for each subsequent offence.
- 21.5 Any person contravening this bylaw shall be responsible for all fines, penalties and costs resulting from that contravention. The costs imposed on the registered owner referred to in this section also include fines imposed upon Sturgeon County by the Federal or Provincial Government as a result of the said registered owner's contravention of this bylaw.
- 21.6 Where the registered owner of land with a sanitary sewer connection to Sturgeon County sanitary sewer system allowed more than one person, either by lease or by other arrangement, to use the land or a portion thereof, and there is discharge to Sturgeon County sanitary sewer system of substances prohibited by this bylaw, the registered owner, whether or not one or more of the persons occupying the land is prosecuted in respect thereof, is guilty of an offence and is liable to be prosecuted thereof.

## 22. COMPLIANCE PROGRAMS

- 22.1 The Designated Source Control Officer may require an industry to apply for a Wastewater Discharge Permit through the ACRWC to discharge wastewater that does not comply with Schedule "A" and/or "B" of this Bylaw. The Industry shall be entitled to make non-complying discharges in the amount and only to the extent set out in the permit.
- 22.2 As a term set out in the Wastewater Discharge Permit, the ACRWC may require an industry to submit a Compliance Program setting out activities to be undertaken by the industry that would result in the prevention or reduction and control of the discharge or deposit of matter and/or uncontaminated water, ground water or storm water from the industry's premises into municipal sewer connections or private sewer connections to any sanitary sewer. This may include, but is not limited to planning, design and construction or installation of facilities or works needed to implement the approved Compliance Program.
- 22.3 Each Compliance Program shall include the following :
- a) A description of the processes at the premises which produce discharges that do not comply with the requirements of this Bylaw.
  - b) A description of those processes at the premises which are to be the subject of the Compliance Program.
  - c) A list of non-complying pollutants present at the premises at any stage of the operations at the premises.
  - d) A description setting out the types, quantities and concentrations of all non-complying pollutants discharged, directly or indirectly, to a sewer.

- e) A description of current wastewater reduction, recycling, wastewater treatment and compliance activities at the premises with respect to discharges to a sewer from the premises.
- f) A description of compliance options for non-complying pollutants and wastewater discharge and an evaluation of those options.
- g) A list of possible targets and timeframes (in compliance with any Wastewater Discharge Permit that may have been issued to the discharger) to reduce or eliminate the discharge of non-complying matter to the wastewater works.
- h) A declaration from an authorized person that the content of the Compliance Program is, to the best of that person's knowledge, true, accurate and complete.

22.4 Every proposed Compliance Program shall be for a specified length of time during which pretreatment facilities or other measures are to be installed or implemented and shall be specific as to the remedial actions to be implemented by the industry, the dates of commencement and completion of the activity and the materials or other characteristics of the matter to which it relates. The final activity completion date shall not be later than the final compliance date in the Compliance Program.

22.5 Industries which are required to submit a Compliance Program shall also submit a Compliance Program progress report to the ACRWC within fourteen (14) days after the scheduled completion date of each activity listed in the Compliance Program.

22.6 The ACRWC may terminate any proposed Wastewater Discharge Permit related to a Compliance Program by written notice at any time to the Industry in the event that the Industry fails or neglects to carry out or diligently pursue the activities required of it under its Compliance Program.

22.7 In the event that an Industry submitting a Compliance Program is not sent written notice from the ACRWC that its Compliance Program is not approved by the ACRWC within ninety (90) days of the Industry delivering a copy of the Compliance Program to the ACRWC, the Compliance Program shall be deemed to have been approved by the ACRWC.

22.8 Where an Industry receives notice from the ACRWC that its Compliance Program has not been approved, the ACRWC shall provide the Industry with a date by which it must submit an amended Compliance Program to the ACRWC for approval in accordance with this article.

22.9 In the event that a Compliance Program resubmitted to the ACRWC in accordance with Subsection 22 (8) of this section does not comply with the requirements of this bylaw, the ACRWC shall so notify the Industry, within 30 days of delivery to the ACRWC of the amended Compliance Program, and the Industry shall be in contravention of Subsection 22 (1) and shall continue to be in contravention of this section until such time as the ACRWC approves an amended Compliance Program resubmitted by the Industry, in accordance with this section.

22.10 When required by the ACRWC, an Industry which has received approval from the ACRWC for its Compliance Program shall submit a revised and updated Compliance Program for

the approval of the ACRWC within the timeframe specified by the ACRWC. Such revised and updated Compliance Program shall, in addition to the requirements otherwise set out in this section, detail, and evaluate the progress of the Industry to accomplish the objectives set out in its Compliance Program.

- 22.11 A copy of the Compliance Program shall be kept at all times at the premises in respect to which it was prepared and shall be available for inspection by the ACRWC and/or Sturgeon County at any time.

### 23. BEST MANAGEMENT PRACTICES & CODES OF PRACTICE

- 23.1 The Alberta Capital Region Wastewater has adopted one or more Best Management Practices which include Codes of Practice which applies to the Designated Sector Operations, as outlined in The Alberta Capital Region Wastewater Code of Practice Registration Form for Designated Sector Operations, available on ACRWC's website at [www.ACRWC.ab.ca](http://www.ACRWC.ab.ca) ;
- 23.2 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;
- 23.3 A code of practice does not apply to the discharge of domestic wastewater;
- 23.4 Nothing in a code of practice relieves a person discharging wastewater from complying with this bylaw, a Wastewater Discharge Permit, or any other applicable enactment;
- 23.5 The Sturgeon County Designated Source Control Officer may require a discharging operation to obtain a Wastewater Discharge Permit if considered necessary by The Alberta Capital Region Wastewater due to circumstances not covered by a code of practice;
- 23.6 As a condition of discharge of wastewater into a sewer connected to a Wastewater Works, an operator of a discharging operation listed within The Alberta Capital Region Wastewater Code of Practice Registration Form for Designated Sector Operations must submit to The Alberta Capital Region Wastewater a completed Code of Practice registration form:
- a) Within ninety (90) days of the date of adoption of the applicable code of practice in the case of a discharging operation in existence on the adoption date; or
  - b) In all other cases, within thirty (30) days of the discharging operation commencing the discharge of wastewater into a sewer connected to a Wastewater Works.
- 23.7 An operator must report to ACRWC any change in the ownership, name, location, contact person, telephone number, or email address of a discharging operation registered under a code of practice within thirty (30) days of the change by submitting a completed code of practice registration form referred to in Section 23.1 showing the changes;
- 23.8 An operator must within thirty (30) days of any change in the discharging operation registered under a code of practice resulting in the operation no longer meeting the definition applicable to that type of discharging operation report the change by submitting a completed code of practice registration form referred to in Section 23.1 describing the changes;

23.9 If a code of practice establishes a requirement in relation to a specific discharging operation which differs from a provision in this bylaw, the requirement in the code of practice prevails.

**24. GENERAL**

24.1 In any case of any dispute as to the proper charges to which any property is subject by reason of the provisions herein contained, the matter shall be referred to Sturgeon County and where the dispute is not then settled to the satisfaction of a property owner such owner may refer the matter to Sturgeon County Council. Final appeal may then be made in the manner provided for in the *Arbitration Act* of the Province of Alberta.

**25. REPEAL**

25.1 Upon third reading of this Bylaw, Bylaw 1253/11 and any amendments are repealed.

26. That this Bylaw shall come into force and take effect upon the date of the third reading.

Read a first time this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

Read a second time this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

Read a third time this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

\_\_\_\_\_  
MAYOR

\_\_\_\_\_  
COUNTY COMMISSIONER (CAO)

**If any portion of this bylaw is declared invalid by a court of competent jurisdiction, then the invalid portion must be severed and the remainder of the bylaw is deemed valid.**

**SCHEDULE "A" PROHIBITED WASTES**

No person shall discharge directly or indirectly or deposit or cause or permit the discharge or deposit of wastewater into a sanitary sewer, municipal sewer connection, private sewer connection, or to any wastewater works in circumstances where:

- (1) To do so may cause or result in:
  - (a) A health or safety hazard to a person authorized by the ACRWC or Sturgeon County to inspect, operate, maintain, repair or otherwise work on a wastewater works;
  - (b) An offence under any applicable federal or provincial legislation, as amended from time to time, or any regulation made thereunder from time to time;
  - (c) Wastewater sludge from the wastewater treatment facility to which wastewater discharges, either directly or indirectly, to fail to meet the objectives and criteria as listed in any applicable federal or provincial legislation, as amended from time to time;
  - (d) Interference with the operation or maintenance of a wastewater works, or which may impair or interfere with any wastewater treatment process;
  - (e) A hazard to any person, animal, property or vegetation;
  - (f) An offensive odour emanating from wastewater works, and without limiting the generality of the foregoing, wastewater containing hydrogen sulphide, carbon disulphide, other reduced sulphur compounds, amines or ammonia in such quantity as may cause an offensive odour;
  - (g) Damage to wastewater works;
  - (h) An obstruction or restriction to the flow in wastewater works.
  
- (2) The wastewater has two or more separate liquid layers.
  
- (3) The wastewater contains:
  - (a) Hazardous substances;
  - (b) Combustible liquid;
  - (c) Biomedical waste, including, but not limited to, any of the following categories: human anatomical waste, animal waste, untreated microbiological waste, waste sharps and untreated human blood and body fluids known to contain viruses and agents listed in "Risk Group 4" as defined in "Laboratory Biosafety Guidelines" published by Health Canada, dated 2004, as amended.
  - (d) Specified risk material for bovine spongiform encephalopathy as defined in the federal Fertilizers Regulations (C.R.C., c. 666), as amended from time to time, including material from the skull, brain, trigeminal ganglia, eyes, tonsils, spinal cord and dorsal root ganglia of cattle aged 30 months or older, or material from the distal ileum of cattle of all ages.
  - (e) Dyes or colouring materials which may or could pass through a wastewater works and discolour the wastewater works effluent;
  - (f) Fuel;
  - (g) Ignitable waste;
  - (h) Pathological waste;
  - (i) PCBs;
  - (j) Pesticides which are not otherwise regulated in this bylaw;
  - (k) Reactive waste;

- (l) Toxic substances which are not otherwise regulated in this bylaw;
  - (m) Waste radioactive substances in excess of concentrations greater than those specified for release to the environment under the *Nuclear Safety and Control Act* and Regulations or amended versions thereof;
  - (n) Solid or viscous substances in quantities or of such size to be capable of causing obstruction to the flow in wastewater works, including but not limited to ashes, bones, cinders, sand, mud, soil, straw, shaving, metal, glass, rags, feathers, tar, plastics, wood, unground garbage, animal parts or tissues, and paunch manure.
- (4) The wastewater contains a concentration, expressed in milligrams per litre, in excess of any one or more of the limits in Schedule "B" of this bylaw, unless:
- (a) The discharge is in accordance with a valid Wastewater Discharge Permit;
  - (b) The discharge is authorized in a Code of Practice approved by Sturgeon County and ACRWC ;
  - (c) All requirements of Section 10. of the bylaw, Additional Requirements, have been fully satisfied.



**SCHEDULE “B” RESTRICTED WASTES – SANITARY SEWER DISCHARGES**

The following are designated as Restricted Wastes when present in wastewater at a concentration below the levels set out below, with concentrations being expressed as total concentrations unless specified otherwise:

(1)

**Table A - CONVENTIONAL CONTAMINANTS**

<b>Substance</b>	<b>Concentration Limit– [mg/L]</b>
Biochemical Oxygen Demand	10,000
Chemical Oxygen Demand	20,000
Oil and Grease, Total – Animal and Vegetable + Mineral and Synthetic/Petroleum Hydrocarbons	500
Total Suspended Solids	5,000
Total Kjeldahl Nitrogen	500
Total Phosphorus	200

**Table B -**

**ORGANIC CONTAMINANTS**

<b>Substance</b>	<b>Concentration Limit, mg/L</b>
Benzene	0.5
Ethylbenzene	0.5
Oil and Grease – Mineral and Synthetic/Petroleum Hydrocarbons	100
Phenols, Total (or phenolic compounds)	1.0
Toluene	0.5
Xylene	0.5

## SCHEDULE "B" RESTRICTED WASTES – SANITARY SEWER DISCHARGES

Table C - INORGANIC CONTAMINANTS

Substance	Concentration Limit, mg/L
Arsenic (As)	1.0
Cadmium (Cd)	0.10
Chlorine, Total (Cl <sub>2</sub> )	5.0
Chromium (Hexavalent) (Cr <sup>+6</sup> )	2.0
Chromium, Total (Cr)	4.0
Cobalt (Co)	5.0
Copper (Cu)	2.0
Cyanide (CN)	2.0
Lead (Pb)	1.0
Mercury (Hg)	0.10
Molybdenum (Mo)	5.0
Nickel (Ni)	4.0
Selenium (Se)	1.0
Silver (Ag)	5.0
Sulphide (S <sup>-</sup> )	3.0
Thallium (Tl)	1.0
Zinc (Zn)	2.0

Table D - PHYSICAL PARAMETERS

Parameter	Limit
Flashpoint	Not ≤60.5° C
Lower Explosive Limit (LEL) in headspace	10% of the LEL
pH	6.0 – 11.5 (unitless)
Temperature	60 Degrees C

- (2) Concentrations that do not exceed the constituent concentrations limits listed in Schedule "B" are permitted for discharge, however may be subject to an Overstrength Surcharge outlined in Schedule "C".

## SCHEDULE "C" WASTEWATER OVERSTRENGTH LIMITS

	<b>Column A</b>	<b>Column B</b>
<b>Substance</b>	Overstrength Surcharge Concentration Limits, mg/L	Additional Overstrength Concentration Limits, mg/L
Biochemical Oxygen Demand (BOD)	300	3000
Chemical Oxygen Demand (COD)	600	6000
Oil and Grease, Total (O&G) Animal and Vegetable + Mineral and Synthetic/Petroleum Hydrocarbons	100	400
Total Suspended Solids (TSS)	300	3000
Total Kjeldahl Nitrogen (TKN)	50	200
Total Phosphorus (TP)	10	75