

By-law #3

VILLAGE OF NEW MINAS

Sewer By-law

This By-law is made by the Village Commission of New Minas pursuant to *the Municipal Government Act*.

RESOLVED by the Village Commission of New Minas that the following be and the same is hereby enacted and the Clerk Treasurer be hereby instructed to forward the same to the Minister of Service Nova Scotia and Municipal Relations.

AND FURTHER RESOLVED by the Village Commission of New Minas that the existing Bylaw Number 3 is hereby repealed and the following is substituted:

This By-law outlines controls for the discharge of pollutants to the sanitary sewer system. The objectives of the Bylaw are to:

- Protect the sewer collection system from corrosion, other damage and obstruction;
- Protect the wastewater treatment process from upset;
- Protect the public, municipal workers and property from hazardous conditions (such as explosions);
- Assist optimum wastewater system efficiency by preventing uncontaminated water from entering the system;
- Protect wastewater sludge quality, and
- Protect the environment from contaminants that are not removed by the public system.

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PART 1- DEFINITIONS

All words in this Bylaw shall have their usual English meaning, unless the context requires otherwise, whenever used in this Bylaw;

Accredited Laboratory- any laboratory accredited by an authorized accreditation body in accordance with a standard based on the Canadian Association for Environmental Analytical Laboratories (CAEAL) criteria.

Building means any dwelling, house, shop, store, office, factory, or part thereof, which is occupied or operated by some person or persons and which would require sewage services;

Building Service Connection - a sewer which is located on private property and which connects the building drainage system or the building sanitary conveniences to the sanitary sewer, storm sewer or combined sewer, or other places of disposal;

Biochemical Oxygen Demand (BOD) - 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).

Biomedical Waste - Biomedical waste as defined in the appropriate federal and provincial statute or regulation as amended from time to time.

Slowdown Water - Re-circulating 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.

Building Code means the Building Code in force in the Village;

Building Service Connection - a sewer which is located on private property and which connects the building drainage system or the building sanitary conveniences to the sanitary sewer, storm sewer or combined sewer or other places of disposal;

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";

Colour of a Liquid means the appearance of a liquid from which the suspended solids have been removed;

Combined Sewer-A sewer intended to function simultaneously as a storm sewer and a sanitary sewer.

Combustible Liquid -A liquid that has a flash point not less than 37.8 degrees Celsius and not greater than 93.3 degrees Celsius;

Commission means the Village Commission of New Minas;

Composite Sample -A volume of wastewater, storm water, uncontaminated water or effluent made up of three or more grab samples that have been combined automatically or manually and taken at intervals during the sampling periods;

Connection or Drain - That part or those parts of any pipe or system of pipes leading directly to a wastewater works;

Cooling Water- 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;

Dental Amalgam - A dental filling material consisting of an amalgam of mercury, silver and other materials such as copper, tin or zinc;

Dental Amalgam Separator - Any technology, or combination of technologies, designed to separate dental amalgam particles from dental operation wastewater;

Designated Sewer Officer - The Superintendent of Public Works appointed by the Village of

New Minas to administer, enforce, carry out observations and inspections and to take samples as prescribed by this bylaw, and his or her successors or his or her duly authorized representative;

Double Municipal Sewer Connection -A municipal sewer connection providing service to two or more premises;

Duplex - a building consisting of two residential units, located one on top of the other, which building is separated by open space from all other buildings and, without limiting the generality of the foregoing, includes any dwelling which was constructed as a single residential unit but in which the basement or upper storey has been converted to form another separate residential unit, and whether or not access to the second story is gained internally or externally;

Engineer - the Superintendent of Public Works, staff engineer of the Village, a consultant engineer engaged by the Village, or other authorized Village Public Works personnel.

Fuels -Alcohol, gasoline, naphtha, diesel fuel, fuel oil or any other ignitable substance intended for use as a fuel;

Grab Sample - A volume of wastewater, storm water, uncontaminated water or effluent of at least 100 millilitres which is collected over a period not exceeding 10 minutes;

Grease - means total fat, 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;

Ground Water - Water beneath the earth's surface accumulating as a result of seepage;

Hauled Wastewater - Waste removed from a wastewater system, including a cesspool, a septic tank system, a privy vault or privy pit, a chemical toilet, a portable toilet, recreation vehicle or a wastewater holding tank;

Hauled Waste -Any waste which is transported to and deposited into any location in the Wastewater works, excluding hauled wastewater;

Hazardous Substances

- (a) Any substance or mixture of substances, other than a pesticide, that exhibits

~ Adopted by Resolution of the Village Commission on March 9, 2020 ~

- characteristics of flammability, corrosivity, reactivity or toxicity; and,
- (b) Any substance that is designated as a hazardous substance within the meaning of appropriate federal and provincial statute or regulation as amended from time to time;

Industrial - of or pertaining to manufacturing, commerce, trade, business or institutions as distinguished from domestic or residential;

Industry-Any owner or operator of industrial or commercial premises from which there is a discharge of any matter directly or indirectly into a sanitary sewer, combined sewer or storm sewer of the Village;

Inspector- The Superintendent of Public Works appointed by the Village of New Minas or person authorized by the Village of New Minas to carry out observations, investigations and inspections, and take samples on behalf of the Village, as may be required under this Bylaw;

Institution - 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, and industrial processes;

Large Commercial or Industrial User- any establishment which may, in the future, request to be connected into the Village of New Minas' Sewage System and which establishment expects to or does use .25 of a cubic metre or more of the Village's water supply, as registered on the establishment's water meter, in any given day, or, an establishment which expects to or does discharge a waste water whose strength in BODS, or whose content of suspended solids or grease, before any form of pre-treatment, exceeds the strength of domestic sewage;

Maintenance Access Point -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;

Matter includes any solid, liquid or gas;

Municipal Sewer Connection- 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 sewage purposes;

Non-contact Cooling Water - 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 product other than heat, or finished product;

Owner - any owner, part owner, joint owner, tenant in common, and includes a trustee, executor, administrator, guardian, agent and mortgagee in possession, or other person having the care or control of any land or building in case of the absence or disability of the person having title hereto;

Pathologic Waste - 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;

PCBs-any mono-chlorinated or polychlorinated biphenyl or any mixture of them or mixture that contains one or more of them;

pH - the logarithm to the base 10 of the reciprocal of the concentration of hydrogen ions in grams per litre of solution;

Phenolic Compounds – hydroxyl derivatives of benzene and its condensed nuclei, concentrations of which shall be determined by “Standard Methods”;

Person - An individual, association, partnership, corporation, municipality or an agent or employee of such a person;

Polluted is the altered physical, chemical, biological or anaesthetic properties of the natural waters of the area, including change of the temperature, taste, or odour of the waters, or the addition of any liquid, solid, radio-active, gaseous or other substance to the waters or the removal of such substances from the waters, which will render or is likely to render the waters harmful to the public health, safety or welfare, or harmful or less useful for domestic, municipal, industrial, agricultural, recreational or other lawful uses or for animals, birds or aquatic life;

Pollution Prevention - The use of processes, practices, materials, products or energy that avoids or minimizes the creation of pollutants and wastes, at the source;

Private Sewer Connection - 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 a municipal sewer connection;

Private Sewage Disposal System - all types of sewage disposal systems not directly connected to a municipal or approved central sewage system, including a privy and a septic tank with a disposal field.

Prohibited Waste - prohibited waste as defined in Section 9 of this Bylaw;

Properly Shredded Garbage - the wastes from the preparation, cooking and dispensing of food and from the handling, storage and sale of produce that has been shredded to such a degree that all particles will be carried freely under the flow conditions normally prevailing in sewers, with no particles greater than one-half inch (12.7 millimetres) in dimension.

Provincial Regulations – 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;

Public Sewer - a sewer or drainage system constructed, purchased or otherwise acquired by the Village or the Municipality of the County of Kings, and maintained as a public sewer or drain, and includes the trunk main, all laterals to the street/property line and any sewage treatment plant connected thereto;

QP1 - a qualified person approved by the Department of the Environment to design or alter the design of an onsite sewage system;

Reactive Waste -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 (Class 1) as defined in the regulations under the federal or provincial statute or regulation as appropriate as amended from time to time;

Restricted Waste - is restricted waste as defined in Section "10" of this Bylaw.

Sanitary Sewer - A sewer receiving and carrying waterborne wastes from residences, commercial buildings or premises, institutions and industrial establishments, and to which storm, surface or ground waters are not intentionally admitted;

Semi-Detached Dwelling- a residential unit which is one side of a two-unit building, which building is divided vertically by a wall extending ground to roof and which building is separated by open space from other buildings, and which residential unit has an independent entrance.

Sewage - any liquid waste containing human, animal, vegetable, or mineral matter in solution or in suspension;

Sewage System - any works for the collection, transmission, treatment, or disposal of sewage, or any part of any such works;

Sludge -the accumulated suspended solids of sewage mixed with water, together which in concentration of any given constituent or in quantity of flow, exceeds more than one hundred times the average 24-hour concentration or flow for a period in excess of fifteen minutes;

Spill -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;

Standard Methods - a procedure set out in "Standard Methods for the Examination of

Water and Wastewater" published jointly by the American Public Health Association, American Water Works Association and Pollution Control Federation, current at the date of testing, or a procedure approved by an analyst of the Department of Environment;

Storm Sewage - a pipe, conduit, drain, open channel or ditch used for the collection and transmission of wastewater, storm water, surface runoff, or uncontaminated water, or any combination thereof;

Storm Water - Water from rainfall, other natural precipitation, drainage or from the melting of snow or ice;

Subsurface Drainage Pipe - a pipe that is installed underground to intercept and convey subsurface water, and includes foundation drain pipes.

Suspended Solids - solid matter in or on a liquid, which matter is removable by filtering;

TKN-total kjeldahl nitrogen.

Total PAHs - The total of all the following polycyclic aromatic hydrocarbons: 2 anthracene, benzo(a)pyrene, benzo(a)anthracene, benzo(e)pyrene, benzo(b)fluoranthene, benzo(j)fluoranthene, Benzo(k)fluoranthene, benzo(g,h,i)perylene, chrysene, dibenzo(a,h)anthracene, dibenzo(a,i)pyrene, dibenzo(a,j)acridine, 7Hdibenzo(c,g)carbazole, dinitropyrene, fluoranthene, indeno (1,2,3- c,d)pyrene, perylene, phenanthrene, and pyrene;

Toxic Substance - Any substance defined as toxic under the *Canadian Environmental Protection Act 1999*, as amended from time to time and within the meaning of provincial statute or regulation as appropriate and as amended from time to time;

True Colour Unit - the measure of the colour of the water from which turbidity has been removed;

Uncontaminated Water – 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;

User - the owner or occupant of property which is serviced by, connected to, or makes use of the sewage system;

Village - The Village of New Minas

Waste Disposal Site Leachate -The liquid containing dissolved or suspended contaminants which emanate from waste (solid waste or garbage), and is produced by water percolating through waste or by liquid in waste;

Waste Radioactive Prescribed Substances - Uranium, thorium, plutonium, neptunium, and deuterium, their respective derivatives and compounds and such other substances as the *Atomic Energy Control Board* may by regulation designate as being capable of releasing atomic energy or as being requisite for the production, use or application of atomic energy.

Wastewater -the composite of water and water-carried wastes from residential, commercial, industrial or institutional premises or any other source;

Wastewater Sludge - Organic solid material recovered from the wastewater treatment facility.

Wastewater Treatment Facility- 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;

Wastewater Works -Any works for the collection, transmission, treatment and disposal of wastewater, stormwater or uncontaminated water, including a combined sewer, 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.

Watercourse - an open channel, ditch or depression, either natural or artificial, in which flow of water occurs either continuously or intermittently.

Year - the fiscal year of the Village.

PART 2-ADMINISTRATION

- (a) The Inspector appointed by the Village of New Minas or person authorized by the Village of New Minas may, upon production of their identification, carry out observations, investigations and inspections, and take samples on behalf of the Village, as may be required under this Bylaw;

- (b) Except as otherwise specifically provided in this Bylaw, all tests, measurements, analyses and examinations of sewage, its characteristics or contents shall be carried out in accordance with Standard Methods.

PART 3 - SEWER SERVICE BY THE VILLAGE COMMISSION OF NEW MINAS

When the Village Commission deems it necessary that a sewer or any part of a public sewer system, including, but not limited to treatment facilities, trunk sewers, drains and outfalls, or where the Village Commission deems it necessary that it acquire lands in any area or any portion of the Village or undertake construction for a sewer service purpose or purposes, the Commission may order by resolution and without the authorization of any petition of the owners, such sewer to be constructed and all the provisions of the Bylaw relating to and regulating the use of public sewers in force in the Village be and are hereby made applicable to any sewer constructed by virtue of such resolution and pursuant to the Municipal Government Act.

PART 4- POWERS AND AUTHORITY OF INSPECTORS

Inspectors of the Village shall be permitted to enter all properties for the purposes of inspection, observation, measurement, sampling and testing, in accordance with the provisions of this Bylaw. Inspectors shall have the authority to inquire into any processes beyond that point having a direct bearing on the kind and source of discharge to the sewers or waterways or facilities for waste treatment.

- (a) The Inspector has the authority to carry out any investigation reasonably required to ensure compliance with this Bylaw, including but not limited to:
- Inspecting, observing, sampling and measuring the flow in any private drainage system, wastewater disposal system, storm water management facility, and flow monitoring point;
 - Determine water consumption by reading water meters;
 - Test flow measuring devices;
 - Take samples of wastewater, storm water, clear-water waste and subsurface water being released from a premises or flowing within a private drainage system;
 - Collect and analyze samples of hauled wastewater coming to a discharge location;
 - Perform on-site testing of the wastewater, storm water, clear-water waste and subsurface water within or being released from private drainage

systems, pre- treatment facilities and storm water management facilities;

- Make inspections of the types and quantities of chemicals being handled or used on a premises in relation to possible release to a drainage system or watercourse;
 - Investigate the premises where a release of prohibited or restricted wastes 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 in their opinion could have been part of the release.
- (b) No person shall hinder or prevent the Inspector from carrying out any of their powers or duties.

PART 5 - CONSTRUCTION AND USE OF SEWERS

1. SEWER CONNECTIONS

- (a) Every owner of a building, the nearest part of which is not more than one hundred feet (100') from any portion of the Village's sewage system is required, at their expense, to connect and keep connected to the sewage system of the Village, any facilities in the said building discharging sewage, in accordance with the provisions of this Bylaw.
- (b) Such connection shall be made within a period of six months from notification given by the Village.
- (c) Each serviced site on the property must have a separate connection to the main, except as otherwise provided in this Bylaw, and must be located within the property boundary line.
- (d) Unless otherwise provided by these bylaws, an owner is liable for the entire cost of the private sewer drain leading from his property to the point at which the private sewer drain connects to the public sewer, the connection costs thereof, as well as any construction deficiencies up to one year thereafter.
- (e) Where the Village or authorized inspector causes work to be done pursuant to these bylaws, the cost of the work, with interest at the rate determined by the Commission, by bylaw, from the date of the completion of the work until the date of payment, is a first lien on the property upon which, or for the benefit of which, the work is done.
- (f) Maintenance of the entire line from the owner's private sewer drain to the point of connection at the main shall be the owner's responsibility.

- (g) Every owner of a building proposing to connect the same to the Village's sewage system shall first obtain a permit for such connection from the Village and shall, in their application for such permit, furnish to the Inspector such information as the Inspector may require from time to time respecting the proposed construction work.
- (h) Every owner of a building proposing to connect the same to the Village's Sewage system or is currently connected to the Village's sewage system shall be required to comply with the Village's **"Water and Sewer Services Policy"**;
- (i) Notwithstanding any other provision of these Bylaws, all sewer pipes, drains and connections shall comply with the requirements of the Building Code, as amended, and the Inspector may refuse to grant a permit for the construction of any such sewer pipe, drain, or connection that does not comply with the requirements of said Building Code.
- (j) On and after the enactment of the Bylaw, and its approval by the Minister of Service Nova Scotia and Municipal Relations, no person shall install a septic tank with respect to any building, the nearest portion of which is not more than one hundred feet (100') from any portion of the Village's sewage system, and no person shall continue to use a septic tank with respect to any such building after the said building has been connected to the Village's sewage system.
- (k) Every owner shall install and maintain in good repair, at their expense, a suitable back-water valve in each connection to safeguard against any possible flooding from the sewage system.
- (l) Every owner is responsible to determine the grades required to connect to the sanitary sewer from the building to the main. The minimum acceptable grade should be 2%, unless otherwise authorized by the Inspector.
- (m) Every owner is responsible to expose the sewer service lateral for inspection by the Inspector.

2. INSTALLATION REQUIREMENTS

- (a) The installation requirements necessary before a connection to the public sewer is permitted are as follows:
 - any building service connection shall, from a point three feet (.91meters) outside of the foundation of the house or building to the street line must be of the first quality materials, the pipe having a diameter of four to six inches (101.60-152.40 millimeters);
 - Sewer line laterals must be not less than four (4) inches (101.60 millimeters) in
- ~ Adopted by Resolution of the Village Commission on March 9, 2020 ~

diameter and should be PVC SDR 28, unless otherwise authorized by the Inspector.

- Any building requiring pumping services shall have pipe size and quality acceptable to the Inspector.

(b) Sewer Line Separation

The sewer service line may be laid in a common ditch with the water line, but it must be buried at a lower elevation and at a minimum distance of twelve (12) inches (304.80 millimeters) away from the water line.

(c) Underground electrical lines are not permitted in the same trench.

(d) Backfilling, unless otherwise directed,

- The sewer line must be laid on a bed of compacted to 95% standard proctor density sand or approved fine gravel of not less than 6 inches (152.40 millimeters) in depth and not backfilled until inspected and approved by the Inspector.
- When backfilling is permitted by the Inspector, a topping of not less than six (6) inches (152.40 millimeters) of compacted sand or approved fine gravel must be laid over the sewer line before previously excavated backfill material is replaced into the trench to bring it up to grade to be determined by the contractor.
- Backfilling of trenches must not be undertaken until the installations are inspected and approval issued by the Inspector.

(e) Cellar Drains

- When drains for cellar and subsoil are laid in the same trench, they should be PVC SDR 28, unless otherwise authorized by the Inspector.
- The inside of every drain, after it is laid, shall be left smooth and perfectly clean throughout its entire length.

(f) Elevation

- Whenever possible, the building sewer shall be brought to the building at an elevation below the basement floor and under the footing. In all buildings in which the building sewer connection is too low to permit gravity flow to the public sewer, sanitary sewage carried by such building sewer shall be lifted by a means approved by the Inspector, and discharged by the building sewer connection to the public sewer system.
- In no case shall the average depth of a public sewer main on public property be more than *twelve* (12) feet below grade for the purpose only of accommodating a gravity flow from a building sewer connection, unless approved by the Village's Inspector.

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- Every owner shall install a backwater *valve* to safeguard against any possible flooding from the sewage system. Such backwater *valve* must be approved by the Village's Inspector, and properly maintained at the owner's own expense.

(g) Public Highways Act

All sewer drains shall be constructed in accordance with the provisions of the Standards Specification for Municipal Services, Province of Nova Scotia, and amendments and regulations thereto, and shall cause as little obstruction as possible for pedestrians and vehicular traffic during installation. Acquisition of all permits shall be the sole responsibility of the owner/applicant.

(h) Grades

The sewer line shall have a uniform grade when laid, in compliance with the National Plumbing Code, 1980, as amended.

(i) Joints

- All changes in direction shall be made by curved pipe, or maximum of two 45 degree long sweepelbows;
- No right angle junction shall be installed;

3. INDUSTRIAL AND COMMERCIAL

- (a) Any person who is the owner of land which is used for industrial or commercial purposes, and which property is connected to a public sewer, is required to provide grease, oil and sand interceptors in order to provide for the proper handling of liquid wastes containing grease in excessive amounts, or any inflammable wastes, sand or other harmful ingredients. All owners of garages, vehicle service stations, car wash operations, food service operators and similar business establishments shall provide approved types of interceptors for oil, grease, soap and similar products.
- (b) All interceptors shall be of a type and capacity approved by the Inspector and shall be located so as to be readily and easily accessible for cleaning and inspection.
- (c) Grease and oil interceptors shall be constructed of impervious materials capable of withstanding abrupt and extreme changes in temperature and shall be of substantial construction, water-tight and equipped with easily removable covers which, when bolted in place, shall be gas-tight and water-tight.
- (d) Traps or interceptors shall be maintained by the owner or operator in a condition of continuous efficient operation at the owner's/operator's expense.
- (e) No retained or trapped oil, grease, sediment, sand, silt or other matter in any form shall be allowed to pass from the installed trap or interceptor into the wastewater

facilities. Instead, removal of retained or trapped material(s) shall be achieved by regularly scheduled pumping or other physical means and shall be hauled away and disposed of as required by law. This pumping shall be documented and such documentation must be provided to the Village on demand.

- (f) Whenever an inspection of an installed trap or interceptor results in a written notice for action on the part of the person(s) responsible for the installed device, such action shall be completed within the compliance period granted by the written notice.
- (g) The owner or operator of an establishment shall provide the Village, upon request, with the frequency of inspection and maintenance of any installed grease, oil, sediment and sand traps or interceptors, as well as information as to the disposal method employed and the location of hauled waste material.
- (h) Any reasonable request for inspection by the Village shall be granted by the owner or operator of the establishment.

4. CONNECTION ABANDONMENT

- (a) Whenever any building service connection is abandoned, the owner shall effectively block up the connection at the property line so as to prevent sewage from backing up into the soil, or dirt being washed into the sewer. The abandoned connection shall be capped with a water tight cap and encased in concrete, or otherwise capped and sealed in a manner approved by the Inspector. The capping and sealing must be inspected by the Inspector.
- (b) Where the owner does not effectively block up a building service connection as required under the provisions of subsection (a) within thirty (30) days from receipt of a notice from the Inspector requiring him to do so, the Inspector may cause the same to be done and the cost of such work caused to be done by the Inspector may be recovered as a debt by the Village from the owner. Failure to pay the fee shall be cause for an action in any court of competent jurisdiction.

5. SEPTIC TANK AND FIELD SYSTEMS

- (a) No person shall construct a private sewage disposal system without first complying with Part 5 Section I(a) of this By-law, and without first obtaining a written private sewage disposal permit from the Nova Scotia Department of Environment;
- (b) No person shall use, cause to be used or permit to be used any private sewage disposal system until installation has been completed to the satisfaction of the

Nova Scotia Department of Environment;

- (c) No person shall discharge, or cause to be discharged or permit to be discharged any contents of any septic tank or cess-pit into any public sewer;
- (d) Where a building is connected with the Village's sewer line, the Village Commission may, by resolution, order the owner of privies and septic tanks to remove and destroy such privy and remove all contaminants, and fill all septic tanks and remove all contaminants, at the owner's expense.

PART 6 - PROHIBITED ACTIONS

- (a) No person shall break, damage, destroy, deface or tamper with:
 - Any part of a sewage system;
 - Any device whether permanently or temporarily installed in a sewage works for the purpose of measuring, sampling and testing of sewage.
- (b) No person shall release, or permit the release of any matter into the sanitary sewer system except:
 - Domestic wastewater that complies with the requirements of this bylaw;
 - Industrial/commercial/institutional wastewater that complies with the requirements of this bylaw;
 - Where In the case of industries, the discharge is within the limit of industrial concentration, as outlined in Part 9 of this Bylaw.
- (c) No person shall release, or permit the release of any prohibited substances listed in any part of this By-law;
- (d) No person shall release, or permit the release of any restricted substance which does not meet the concentrations listed in Part 9 of this bylaw;
- (e) No person, firm or corporation shall direct or permit surface water, roof water, rain water, or water in the ground to enter a Village sanitary sewer.
- (f) No open gutter, cesspool, privy, vault, cellar, underground drain or exhaust pipe from any machine shall be connected with any public sewer.
- (g) No person, firm or corporation shall connect any storm sewer to any sanitary sewer;
- (h) No person, firm or corporation shall throw, or permit to be thrown or deposited in any public sewer opening or receptacle connected with the public sewer system any garbage, offal, animals, ashes, cinders, rags or any other material or thing except feces, urine, the necessary toilet paper, household liquids and properly shredded garbage;
- (i) The Inspector shall have the power and authority to stop and prevent any private sewer or drain through which substances are discharged which are liable to injure the public sewer or obstruct the flow of sewage therein from discharging into the public sewer.
- (j) All existing and future building service connections to the public sewer are subject to all the regulations set out in this Bylaw as it relates to the types and amounts of effluent allowed to be entered into the public system.

PART 7 – NECESSARY WORK PERMITS

- (a) No person shall undertake to install or construct or allow to be installed or constructed, a building service connection, without first obtaining a permit therefore from the Village in the form set out in Appendix "A", provided however that notwithstanding the issuance of any such permit, the person to whom any such permit is issued shall be liable for any damage or injury to the public sewer caused by them, their servants, agents or work person in making such a connection.
- (b) An application for a permit to carry out work, as required in Section 7 must be made by the property owner or their authorized agent.
- (c) Each building service connection shall be constructed subject to the supervision of the Inspector and shall be of such size and at such level and descent and with such mode of piercing or opening into the sewer, and generally in such manner and of such materials, as the Inspector directs and in accordance with Part 5 of this Bylaw, and no such drain shall be covered in until it has been inspected and approved by the Inspector.

PART 8 – RATES AND CHARGES

- (a) Every user of the sewage system shall pay a charge to the Village. Such charge shall be a quarterly fee for metered users or an annual charge for non metered users of the sewage system for the construction, operation and maintenance of a pollution control system, including collection mains or pipes, force mains, pumping stations, sewage treatment plant or plants, and other similar treatment facilities for pollution control. Such charge shall be comprised of a service charge calculated to recover the annual cost to service the debt related to the cost of construction of the sewage system, and a rate per cubic metre calculated to recover annual administration, operating and maintenance costs related to the sewage system, with such rate to be calculated on the basis of water consumption.
- (b) In the case of users who are consumers of the New Minas Water Commission, the service charge shall be based on water meter size, relative to standard capacities and the variable (rate) charge shall be on the basis of water consumption.
- (c) The resulting sewer rates are as set out in Schedule "B", "C", and "D" attached hereto.
- (d) Billing for charges shall be rendered quarterly.
- (e) All bills rendered under the provision of this Bylaw shall be due and payable within

thirty (30) days of the date rendered. A late charge of one and one half percent (1.5%) per month of the net bill shall be payable after the due date of the bill. Each bill shall show the amount payable within thirty days from the date rendered and the amount payable after thirty days from that date. Each bill shall show the date after which the higher rate will be charged if payment has not been made by that date.

- (f) All rates and charges levied under this Bylaw shall constitute a lien on the real property of the owner of the property in respect of which the charge is levied and may be collected in the same manner and with the same remedies as rates and taxes under the Municipal Government Act.
- (g) The rates and charges payable under this Bylaw shall apply to all bills rendered after the effective date of this By-law.

PART 9 – SEWAGE DISCHARGE

1. General Prohibitions - No person shall discharge directly or indirectly or deposit or cause or permit the discharge or deposit of wastewater into a sanitary sewer, combined sewer, municipal or private sewer connection to any sanitary sewer in circumstances where to do so may cause or result in:

- (a) A health or safety hazard to a person authorized by the Village to inspect, operate, maintain, repair or otherwise work on a wastewater works;
- (b) An offence under the federal or provincial environmental protection of water resources act as amended from time to time, or any regulation made there under from time to time;
- (c) Wastewater sludge from the wastewater treatment facility works to which either wastewater discharges, directly or indirectly, to fail to meet the objectives and criteria as listed in the applicable federal or provincial environment protection or water resources act or policy 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 to emanate 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. Specific Prohibitions - No person shall discharge directly or indirectly or deposit or cause or permit the discharge or deposit of wastewater into a sanitary sewer, combined sewer, municipal or private sewer connection to any sanitary sewer in circumstances where the wastewater contains:

- (a) Hazardous substances;
- (b) Combustible liquid;
- (c) Explosive matter, gasoline, benzene, naphtha, fuel oil, solvents or sewage containing any of these;
- (d) Biomedical waste, including any of the following categories: human anatomical waste, animal waste, untreated microbiological waste, medical needles, syringes, other waste sharps and untreated human blood and body fluids;
- (e) Dyes or colouring materials which may or could pass through a wastewater works and discolour the wastewater works effluent;
- (f) Fuel;
- (g) Fat and grease
- (h) Sewage containing more than 15 milligrams per litre of solvent extractable matter of mineral or synthetic origin;
- (i) Sewage which consists of two or more separate and immiscible liquid layers;
- (j) Hauled wastewater;
- (k) Hauled waste;
- (l) Ignitable waste;
- (m) Pathological waste;
- (n) Polychlorinated Biphenyls;
- (o) Pesticides;
- (p) Reactive waste;
- (q) Toxic substances;
- (r) Waste radioactive prescribed substances;
- (s) Solid or viscous substances in quantities or of such size to be capable of causing obstruction to the flow in a sewer, including but not limited to ashes, bones, cinders, sand, mud, soil, straw, shaving, animal or vegetable grease in excess of 60 mg/L, metal, glass, rags, feathers, tar, plastics, wood, un-ground garbage, animal parts or tissues and paunchmanure;
- (t) Any substance or material that would tend to generate ammonia during the

treatment process,

- (u) Sewage, or other discharge having a pH less than 6.0 or greater than 9.0;
- (v) Sewage at a temperature greater than 65 degrees Celsius (1492 Fahrenheit);
- (w) Sewage containing any matter which will not pass through a screen having openings not larger than 3.35 millimeters square (No. 6 sieve);
- (x) Sewage containing coloured matter, which sewage would require a dilution in excess of four (4) parts of distilled water to one (1) part of such sewage to produce a mixture, the color of which is not distinguishable from that of distilled water;
- (y) Contaminated cooling water from any residential properties;
- (z) Any ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, grease, oils, plastics, wood or other solid or viscous substances in a quantity capable of causing obstruction to the flow in the sewers or any other interference with the proper operation of the sewage system;
- (aa) Sewage containing more than 200 milligrams per liter of suspended solids, except as provided by special agreement authorized under this Bylaw;
- (bb) Sewage of which biochemical oxygen demand exceeds 200 milligrams per liter, except as provided by special agreements authorized under this Bylaw.

3. Specific Organic Contaminant Prohibitions - no person shall discharge directly or indirectly or deposit or cause or permit the discharge or deposit of wastewater into a sanitary sewer, combined sewer, municipal or private sewer connection to any sanitary sewer in circumstances where the wastewater contains the following materials in concentrations greater than as set out herein:

Substance	Concentration (mg/L, except as otherwise noted)
Benzene	0.01
Benzidine and Benzidine dihydrochloride	Dept of Environment Standards
Chloroform	0.04
Dichlorobenzene	0.088
Ethylbenzene	0.057
Hexachlorobenzene	0.055
Methylene chloride (dichloromethane)	0.0981
PCBs (chlorobiphenyls)	0.004
Penols, Total (or Phenolic compounds)	1
Tetrachloroethane	0.04

Tetrachloroethylene	0.05
Toluene	0.08
Trichloroethylene	0.054
Xylenes, Total	0.32

4. Specific miscellaneous contaminant prohibitions - No person shall discharge directly or indirectly or deposit or cause or permit the discharge or deposit of wastewater into a sanitary sewer, combined sewer, municipal or private sewer connection to any sanitary sewer in circumstances where the wastewater contains the following materials in concentrations greater than as set out herein:

Substance	Total Concentration Limit (mg/L, except as otherwise noted)
Aluminum	50
Ammonia	24
Antimony	5
Arsenic, Total	0.1
Barium	5
Beryllium	5
Bismuth	5
Cadmium, Total	0.1
Chloride	1500
Chromium, Total	0.37
Cobalt, Total	5
Copper, Total	1
Cyanide, Total	1
Fluoride	10
Iron	50
Lead, Total	0.1
Manganese	5
Mercury	0.1
Molybdenum, Total	5
Nickel, Total	0.55
Nitrogen, Total Kjeldahl	70
Phenolic Compounds	1
Phosphorus, Total	12

Selenium, Total	0.82
Silver, Total	0.29
Sulphates (as S04)	1500
Sulphide (as HzS)	0.3
Tin	5.0
Zinc, Total	0.03

5. Discharge in accordance with discharge agreement or compliance program - a discharge in excess of limits established pursuant to this part is permitted where it is done in accordance with the terms and conditions of a valid discharge agreement or compliance program.

6. Dilution to achieve compliance is prohibited - No person shall discharge directly or indirectly, or permit the discharge or deposit of wastewater into a sanitary sewer, combined sewer, storm sewer, where water has been added to the discharge for the purposes of dilution to achieve compliance with any section of this Bylaw.

7. Storm water, drainage water & watercourse prohibition - No person shall discharge or deposit or cause or permit discharge or deposit into a sanitary sewage system, any storm water, water from drainage or roofs or land, or from a watercourse.

PART 10 – SAMPLING AND ANALYTICAL REQUIREMENTS

- (a) Where sampling is required for the purposes of determining the concentration of constituents in the storm water, uncontaminated water or wastewater, the sample shall:
- Be collected manually or by using an automatic sampling device; and
 - Contain additives for its preservation.
- (b) Where compliance with Part 9 is not met, the Village shall have the authority to require the user to install a self-monitoring and sampling station in accordance with Section 10(c).
- (c) The discharger shall complete any monitoring or sampling of any discharge to a wastewater works, as required by the Village and provide the results to the Village in the form specified by the Village (i.e, hard copy or electronic copy).
- (d) The obligations set out in or arising out of 10(c) shall be completed at the expense of the discharger;
- (e) All tests, measurements, analyses and examinations of wastewater, its characteristics or contents shall be carried out in accordance with "Standard

Methods for Testing", as defined herein at Part 1. Additional testing or re-testing of wastewater, made necessary by non-compliance with this Bylaw, or at the request of the village, shall be carried out at the cost of the discharger;

- (f) Village staff is authorized to enter any property for analytical sampling purposes. If after due notice has been issued that this Bylaw has been contravened the discharger continues to be non-compliant, the Village is authorized to cause the analytical sampling to be provided, and the cost of the work, with the interest at the rate determined by the Commission from the date of the completion of the work until the date of payment, shall be a first lien on the property, or for the benefit of which the work was done.
- (g) Following sampling and final analyses, if the discharge does not meet the requirements as set out in the Bylaw, the Village of New Minas shall require pre-treatment of the contaminants to meet the said concentrations of this Bylaw.

PART 11 – ADDITIONAL CONNECTION REQUIREMENTS

1. FOOD RELATED GREASE

- (a) Every owner or operator of a restaurant or other industrial, commercial or institutional premises where food is cooked, processed or prepared, which premises are connected directly or indirectly to a sewer, shall take all necessary measures to ensure that fat, oil and grease are prevented from entering the storm or sanitary sewer;
- (b) The owner or operator of a premises, as set out in this section 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 sewer. The oil and grease interceptors shall be installed in compliance with the most current requirements of the applicable Building Code. The installation of the oil and grease interceptor shall meet the requirements of the Canadian Standards Association National Standard CAN/CSA B-481.
- (c) All interceptors shall be maintained by the owner, according to the manufacturer's recommendations;
- (d) A maintenance schedule and record of maintenance for each interceptor installed shall be kept on a regular basis pursuant to part 3(c) of this Bylaw, and provided to the Inspector or their designate, on demand;
- (e) institutional premises where food is cooked, processed or prepared, shall, for five years, keep the document of proof for interceptor clean-out and oil and grease

disposal.

2. VEHICLE SERVICE OIL AND GREASE INTERCEPTORS

- (a) Every owner or operator of a motor vehicle 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 sewer, shall install an oil and grease interceptor designed to prevent motor oil and lubricating grease from passing into the drainage piping which is connected directly or indirectly to a sewer.
- (b) The owner or operator of a premises as set out in Part 11, Subsection 2(a) 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 sewer. The oil and grease interceptors shall be installed in compliance with the most current requirements of the applicable Building Code.
- (c) All oil and grease interceptors and separators shall be maintained *in good working order* and in accordance with the manufacturer's recommendations and shall be inspected regularly to ensure performance is maintained to the manufacturer's specifications for performance.
- (d) A maintenance schedule and record of maintenance shall be submitted to the Inspector annually for each oil and grease interceptor installed;

3. SEDIMENT INTERCEPTORS

- (a) Every owner or operator of a premises from which sediment may directly or indirectly enter a sewer, including but not limited to premises using a ramp drain or area drain and car and vehicle wash establishments, shall take all necessary measures to ensure that such sediment is prevented from entering the drain or sewer;
- (b) All sediment interceptors shall be maintained in good working order and according to manufacturer's recommendations and shall be inspected regularly to ensure performance is maintained to the manufacturer's specifications for performance;
- (c) A maintenance schedule and record of maintenance shall be submitted to the Inspector annually for each sediment interceptor installed.

4. DENTAL WASTE AMALGAM SEPARATOR

- (a) Every owner or operator of a premises from which dental amalgam may be

discharged, which waste may directly or indirectly enter a sewer, shall install, operate and properly maintain dental amalgam separator(s) with at least 95% efficiency in amalgam weight and certified /50 11143 - "Dental Equipment: Amalgam Separators".

- (b) A maintenance schedule and record of maintenance shall be submitted to the Inspector annual for each dental amalgam separator installed.

PART 12 – SPILLS

- (a) 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 the Village and provide any information with regard to the spill that is requested;
- (b) The person shall immediately provide a detailed report on the spill to the Village, which report contains the following information to the best of his or her knowledge:
 - (a) Location of the spill;
 - (b) Name and telephone number of the person who reported the spill and the location and time that person can be contacted;
 - (c) Date and time of spill;
 - (d) Material spilled;
 - (e) Characteristics 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; and
 - (i) Preventative actions being taken to ensure a similar spill does not recur.
- (c) 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;
- (d) The person responsible for the spill and the person having the charge, management and control of the spill shall also notify other government agencies, including federal and provincial as required and appropriate for material and circumstances of the spill.

PART 13 – RESTRICTION AND PENALTIES

- (a) The Commission, on being advised that any existing sewer pipe, drain, or connection to the Village's sewer system has not been constructed and/or maintained in accordance with the provisions of the aforementioned Building Code or of this Bylaw, may instruct the Village Clerk to serve notice on the owner or occupant of the building, requiring them to remedy the condition described in the notice. Such notice may be served by being posted in a conspicuous place upon the building or may be personally served upon the person or persons named so served with notice to remedy the condition described in the notice within thirty days after service thereof, failure to comply with this notice will make that person guilty of an offence pursuant to Section 431 of the Municipal Government Act (Villages) and liable on conviction to a penalty not exceeding \$5000 and in default of payment, to imprisonment for a period not exceeding ninety days.
- (b) Except as otherwise provided in this Bylaw, any person who contravenes any section of this Bylaw is guilty of an offence and liable on summary conviction to a penalty not exceeding \$5,000 and in the default of payment to imprisonment for a term of not more than ninety days.
- (c) Where an offence under this Bylaw is committed or continued on more than one day, the person responsible for the offence is liable to be convicted for a separate offence for each day on which the offence is committed.

PART 14- DISCONNECTION

- (a) It is a condition of any connection permit that failure to comply with this Bylaw or Part XIV of the Municipal Government Act may result in revocation of approval by the Inspector upon ten days prior notice to the owner of the property.
- (b) Revocation of a connection permit by the Inspector may be appealed to the Village Commission within ten days of the communication of the Inspector's decision to the owner of the property affected by filing a notice of appeal with the Clerk. The notice of appeal shall specify the basis for the appeal and the relief sought.
- (c) The Village Commission shall provide the appellant with an opportunity to be heard prior to any decision.
- (d) The Village Commission may uphold or reverse the Inspector's decision or amend it to include terms and condition.

PART 15 - OTHER

- (a) A duplex, which cannot be sold separately, shall install one sewer lateral.

(b) Each unit of a semi-detached dwelling shall have its own sewer lateral.

PART 16- LIABILITY

The owner shall indemnify the Village of New Minas from any loss or damage that may directly or indirectly be occasioned by the installation of the sewer service connection.

PART 17- REPEALS

The Village of New Minas Sewer Bylaw# 3 is hereby repealed.

I, April Ernest, Clerk Treasurer of the Village of New Minas, do hereby certify that the foregoing is a true copy of a Bylaw amendment duly passed at a meeting of the Village of New Minas, duly convened and held on the 11th Day of December, 2017.

Dated at New Minas, in the County of Kings, the 15th Day of December, A.D. 2017.

April Ernest, Clerk Treasurer

BYLAW #3 Village of New Minas Sewer Bylaw

Bylaw Amendment 3A

First Reading: November 13, 2017

Second Reading: December 11, 2017

Publications: *Second Reading:* November 23, 2017

SCHEDULE "A"
VILLAGE OF NEW MINAS
APPLICATION TO CONNECT TO NEW MINAS SEWER

I hereby make application for permission to connect to the Village of New Minas Sewer System under the provisions set out in **Sewer Bylaw #3**, and agree that such connection will comply with the regulations as set forth in this bylaw, and comply with the Village of New Minas **Water and Sewer Services Policy**. It is my responsibility to determine the location, horizontally and vertically, of the end of the lateral pipe at the point of connection and set my foundation accordingly. Each serviced site on the property must have a separate connection.

OWNER OF BUILDING: _____

OWNER'S PHONE #: _____ CELL# _____

OWNER'S COMPLETE MAILING ADDRESS _____

CONTRACTOR'S NAME, ADDRESS: _____

CONTRACTOR'S PHONE#: _____ CELL# _____

PROPERTY DETAILS ADDRESS (Please complete all applicable information): CIVIC#: _____

LOT# _____ PROPOSED LOCATION: _____

NO. OF UNITS: _____ OTHER IDENTIFYING INFO.: _____

SIZE OF SEWER OUTLET: _____ MATERIAL TO BE USED (SDR 35 required _____

IT IS FURTHER ACKNOWLEDGED BY THE APPLICANT THAT A SURCHARGE OF \$200 WILL BE MADE FOR INSTALLATION OF LATERALS WHEN FROST IS PRESENT IN THE GROUND.

DATE OF APPLICATION

SIGNATURE OF APPLICANT

private well.

SCHEDULE "B"
SEWER RATES AND CHARGES

<u>Meter Size</u>	<u>Charge per Quarter</u>
5/8"	\$15.50
3/4"	\$23.50
1"	\$36.00
1 ½"	\$67.00
2"	\$105.50
3"	\$207.00

- (a) All consumption, per m³, \$0.42.
- (b) Where a metered service is not provided or where a consumer is connected to the Village sewer system but not connected to the Village water system, then such consumer shall pay a yearly rate of \$140.00 per unit for residential users, and commercial users will be charged at the consumption rate based on the meter on their private well.

By-law Amendment 3A
SCHEDULE "B"
SEWER RATES AND CHARGES
Effective June 22, 2017

<u>Meter Size</u>	<u>Charge per Quarter</u>
5/8"	\$17.45
3/4"	\$36.00
1"	\$38.46
1 ½"	\$68.69
2"	\$107.50
3"	\$207.43
4"	\$320.76
6"	\$923.00

- (a) All consumption, per m³, \$0.42.
- (b) Where a metered service is not provided or where a consumer is connected to the Village sewer system but not connected to the Village water system, then such consumer shall pay a yearly rate of \$302.00 per unit for residential users, and commercial users will be charged at the consumption rate based on the meter on their private well.

By-law Amendment 3A
SCHEDULE "C"
SEWER RATES AND CHARGES
Effective April 1, 2018

<u>Meter Size</u>	<u>Charge per Quarter</u>
5/8"	\$21.42
3/4"	\$36.00
1"	\$47.23
1 ½"	\$84.34
2"	\$131.58
3"	\$254.72
4"	\$393.88
6"	\$923.00

(a) All consumption, per m³, \$0.42.

(b) Where a metered service is not provided or where a consumer is connected to the Village sewer system but not connected to the Village water system, then such consumer shall pay a yearly rate of \$302.00 per unit for residential users, and

~ Adopted by Resolution of the Village Commission on March 9, 2020 ~

commercial users will be charged at the consumption rate based on the meter on their private well.

By-law Amendment 3A
SCHEDULE "D"
SEWER RATES AND CHARGES
Effective April 1, 2019

<u>Meter Size</u>	<u>Charge per Quarter</u>
5/8"	\$25.40
3/4"	\$36.00
1"	\$56.00
1 ½"	\$100.00
2"	\$156.00
3"	\$302.00
4"	\$467.00
6"	\$923.00

(a) All consumption, per m³, \$0.42.

(b) Where a metered service is not provided or where a consumer is connected to the Village sewer system but not connected to the Village water system, then such

consumer shall pay a yearly rate of \$302.00 per unit for residential users, and commercial users will be charged at the consumption rate based on the meter on their private well.