

LOBATSE TOWN COUNCIL (PUBLIC SEWER) BYE-LAWS

(section 6)*

(11th September, 2009)

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BYE-LAW

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Schedules

S.I. 79, 2009.

1. Citation

These Bye-Laws may be cited as the Lobatse Town Council (Public Sewer) Bye-Laws.

2. Interpretation

(1) In these Bye-Laws, unless the context otherwise requires-

"authorised officer" means a person authorised by the Council to inspect public sewers or pipes or drains connected therewith;

"Council" means the Lobatse Town Council established under the Act;

"drainage installation" means a system of drains, pipes and sewers used for the sewerage of a building, including any fitting, appliance or equipment connected thereto;

"foul water" means water contaminated by soil water, waste water or trade effluent;

"latrine" includes a privy, a urinal, an earth-closet or a water-closet;

"owner" in relation to immovable property, means the person or his agent receiving the rent or profits for any land or premises from the occupier thereof or a person who occupies or holds land in accordance with the terms of an agreement;

"public sewer" means any piped sewer, ditch, or water course for the passage of foul water constructed or maintained by or vested in the Council;

"sewer" or **"drain"** means a pipe conveying foul water forming part of the sewerage or drainage installation of a building, including any pipe connecting to a drain or to a public sewer;

"soil water" means water containing excreted matter, whether human or animal;

"storm water" includes surface water or rain water;

"sludge" means a compound of solids with entrained water resulting from the processing of waste water by any combination of physical, chemical or biological processes;

"trade effluent" means liquid, either with or without particles of matter in suspension, which is wholly or in part produced in the course of trade, industrial, manufacturing, mining or by chemical processes or any laboratory, research or agricultural activity, and includes any liquid other than standard domestic effluent or storm water;

"toxic pollutant" means a concentration of any pollutants which upon exposure to or assimilation into any organism will cause adverse effects;

"waste water" means used water, not being soil water, trade effluent or storm water; and

"waste water treatment works" means an arrangement of any device, facility, structure, equipment or processes used for the purpose of the transmission, storage, treatment and disposal of waste water.

(2) For the purposes of these Bye-Laws, a building shall not be deemed to have a public sewer available except where there exists or there is in the course of construction within 30 metres of the site of a building, a public sewer or a sewer connecting thereto at a suitable invert level which the owner of the building is entitled to use and a sufficient supply of water except where such is laid on or where a supply can be connected from a point within 30 metres of the site of the building:

Provided that, where the distance of a public sewer or a point from which a supply of water is available exceeds 30 metres and the Council agrees to undertake the construction, at its expense, of a drain to connect to a public sewer or the laying of a pipe to a point of connection to a supply of water, the 30 metres limit shall not apply.

3. Duty of Council to keep map showing sewers

The Council shall keep deposited at its office for inspection by any person during normal working hours, a map showing and distinguishing each public sewer and any sewer in the course of construction within its area.

4. Power of Council to alter or close public sewer

The Council may alter the size or course of any public sewer or discontinue and prohibit the use thereof by giving one month's notice:

Provided that the Council shall, at its expense, execute any work necessary to connect to another sewer the drainage installation of the users of the sewer under alteration or discontinued.

5. Power of Council to agree to adopt sewer or sewage disposal works

The Council may enter into an agreement with any person constructing or proposing to construct a sewer or sewerage disposal works to the effect that upon completion of the work to the satisfaction of the Council or on a specified date the sewer or works shall be vested in and thereafter maintained by the Council.

6. Prohibited discharges into public sewer system

(1) A person shall not throw or empty or permit to be thrown or emptied into a public sewer or into any drainage installation connecting to a public sewer, any material which causes, threatens to cause or is capable of causing, either alone or by interaction with other substances-

- (a) an obstruction of flow in, or damage to the sewer system or any portion thereof;
- (b) a threat to the life or safety of persons,
- (c) a fire or explosion;
- (d) strong or offensive odours, air pollution, or any noxious, toxic or malodorous gas or substance, or a gas producing substance;
- (e) conditions inhibiting or preventing the effective maintenance and operation of the sewer system;

(f) interference with any waste water reclamation, or sludge re-use process which does or may operate in conjunction with the public sewer system, or which renders such reclamation or sludge re-use process impracticable or not feasible under normal operating conditions; or

(g) discoloration, or any adverse conditions in the quality of the effluent from the sewer such that receiving water quality requirements established by any statute, rule, regulation or permit conditions cannot be met.

(2) A person shall not discharge or cause or permit to be discharged, directly or indirectly into any sewer system or any part thereof, any toxic or poisonous substances or any other pollutant, which, in sufficient quantity, may-

(a) constitute a hazard to human or animal life;

(b) injure or cause an interference with the waste water treatment process;

(c) create a hazard to human, animal life or fish in any waters receiving effluent from the public sewer system; or

(d) create a hazard in the use or disposal of waste water sludge or reclaimed water.

(3) A person shall not discharge or permit to be discharged into the public sewer system or any part thereof, any industrial waste water containing any of the toxic substances exceeding the concentrations set out in the First Schedule.

(4) Any person who contravenes any provisions of this bye-law shall be guilty of an offence and liable to a fine not exceeding P2000 and a further fine not exceeding P100 per day for each day on which the offence continues.

(5) Any person convicted of a second or subsequent offence shall be liable to a fine not exceeding P5000 or imprisonment for a period not exceeding 24 months or to both.

7. Storm water not to enter public sewer

A person shall not discharge or cause or permit the discharge, directly or indirectly, into the sewer system or any part thereof, any storm water, surface water, ground water, roof runoff or sub-surface drainage.

8. Sewage not to enter storm water drains

A person shall not discharge or cause or permit to be discharged, directly or indirectly, any sewage or foul water into a storm water drain, river, stream or other water course, whether natural or artificial.

9. Right to connect to public sewer

(1) Subject to the provisions of bye-law 11, an owner shall, at his or her own expense, be entitled to have the drainage installation of his or her premises connected to a public sewer.

(2) Notwithstanding the provisions of subbye-law (1), no person shall-

(a) discharge, directly or indirectly, into the public sewer, any liquid or other matter-

(i) from a factory or trade premises or a manufacturing process except with the written permission of the Council under bye-law 17; or

(ii) the discharge of which is prohibited under these bye-laws or any other enactment; or

(b) connect a drainage installation to a public sewer-

(i) unless he or she satisfies the Council that the premises concerned have a sufficient supply of water; or

(ii) where the sewer is situated at a distance of more than 30 metres from the boundary of the premises.

10. Council to require connection to public sewer in certain circumstances

Where a public sewer and a sufficient supply of water is available and the Council is of the opinion that-

(a) satisfactory provision has not been made for the hygienic and adequate disposal of foul water; or

(b) any cesspool, septic tank, latrine or appliance or equipment provided for the collection or disposal of foul water is defective or insufficient so as to be prejudicial to health or a nuisance, the Council may, within a specified time and at the owner's expense, require the owner to remove any latrine or non-waterborne system and replace the same with a water closet connected to the Council's sewerage system.

11. Procedure in respect of connection to public sewer

(1) A person who requires the drainage installation of his or her premises to be connected to a public sewer shall make an application, in writing, to the Council in the prescribed form as set out in the Third Schedule.

(2) Where the Council receives an application under subbye-law (1) it shall, within 21 days of the receipt thereof, advise the applicant in writing whether or not the application has been granted or rejected.

(3) A rejection of an application under subbye-law (1) shall be given in writing and shall state the reason therefor.

(4) Where an application is granted, the Council shall advise whether or not it intends to carry out, on behalf of the applicant, the work required.

(5) Where the Council intends to carry out the work under subbye-law (4) the applicant shall, before work commences, be required to pay the Council the cost thereof as estimated by the Council.

(6) Where the applicant carries out or causes to be carried out the work required, he or she shall give to the Council reasonable notice thereof in writing and shall accord to an authorised officer reasonable access to inspect the work.

(7) Every person connecting to the public sewer system shall construct the connection according to such requirements as may be made under the provisions of the Building Control Act.

(8) The Council may order the owner of a building that has been connected to the sewer system or a building for which an order for connection to the sewer has been made to remove any latrine that has been installed on the premises on which the building is located or to destroy or fill septic tank(s) that have been previously used.

(9) A connecting drain, pipe or sewer constructed under the preceding provisions of this bye-law shall vest in the Council, and the maintenance, repair or renewal thereof shall, at the expense of the owner of the premises, be carried out by the Council.

(10) Any person who causes a drain, pipe or a sewer to be connected to a public sewer in contravention of the provisions of these bye-laws shall be guilty of an offence and liable to a fine of P200, and whether proceedings have or have not been taken in respect of that offence, the Council may close the connection in question and recover from the offender any costs incurred thereby.

(11) Where a payment made under subbye-law (5)-

- (a) exceeds the costs incurred, the Council shall repay the excess to the applicant; or
- (b) is insufficient, the balance shall be recoverable from the person for whom the work was done.

12. Common sewer or drain

The Council may, in its discretion and with the agreement of the owners concerned, permit the drainage installations of two or more buildings to connect with a public sewer by means of a common sewer or drain.

13. Fees

(1) The owner shall pay a sewerage connection fee at the rates set in the Second Schedule and shall enter into a sewerage service agreement with the Council after connection of the premises to the sewerage system.

(2) The owner shall pay annual sewerage service fees at the rates set out in the Second Schedule.

(3) The due date for the payment of any fees shall be 30 calendar days from the date reflected on any statement sent by the Council.

(4) If the due date under subbye-law (3) lapses, a period of 90 calendar days shall be allowed for the payment of any fees without interest, thereafter all arrears shall be subject to an interest rate of 12 per cent per month.

(5) The interest accrued on any arrears shall be calculated from the date on which the fee becomes overdue until the date of payment of the fee.

(6) In the case of change of ownership of the premises or of the postal address of any owner, the person who appears, from the Council records, to be the owner of the premises shall continue to be liable to pay the fees under these Bye-Laws unless he or she notifies the Council, in writing, of such change.

(7) The fees set out under these Bye-Laws may be reviewed at any time, at the discretion of the Council.

14. Maintenance

(1) The Council shall be responsible for the operation and maintenance of any sewer mains within the streets and public easements.

(2) The owner shall be responsible for the maintenance of the sewer line from the final inspection chamber within his or her property to any house on the property.

(3) Any maintenance or work carried out under subbye-law (2) shall be at the expense of the owner.

(4) In the event that any blockage exists between a Council manhole and an inspection chamber, the Council shall be responsible for clearing the blockage at no expense to the owner.

(5) Any work carried out on the Council sewer system shall take place with the approval of the Council.

15. Disconnection and re-connection

(1) The sewer line of the owner shall be disconnected and legal action shall commence against such owner if the period of 90 calendar days referred to in bye-law 13 (4) has lapsed without the owner having paid the fees under bye-law 13 (1) and (2).

(2) A re-connection fee of P50 in respect of residential property and P100 in respect of commercial or industrial property shall be payable by the owner of the premises upon his or her request for the re-connection of his or her sewer line.

(3) A person shall not re-connect a sewer unless that person has paid in full all amounts due to the Council, including any re-connection fees.

(4) A person shall not obstruct any authorised person executing their duties in accordance with this bye-law.

16. Legal action

Where legal action has been taken against the owner to recover any outstanding amounts due to the Council, a court of competent jurisdiction shall accept the presentation of documents reproduced by electronic or other means, in lieu of the original documents.

17. Discharge of industrial or commercial trade effluent into public sewers

(1) A person wishing to discharge industrial or commercial trade effluent into a public sewer shall make an application, to the Council in the form prescribed in the Fourth Schedule and shall include the following details-

- (a) the chemical composition, nature and volume of the effluent;
- (b) a description of the industrial process or trade giving rise to the effluent;
- (c) the number of persons employed on the premises; and
- (d) such other information, including the submission of samples, which the Council may consider necessary.

(2) The discharge limits of trade effluent in public sewers shall be as prescribed in the First Schedule.

(3) Permission granted under subbye-law (1) shall not be reassigned or transferred or sold to a new owner, new user, different premises or changed operation.

18. Alteration in discharge limits of trade effluent

(1) The Council may, subject to the written approval of the Minister and to any condition which the Minister may think fit to impose, grant permission for the discharge into a public sewer, trade effluent from any premises or for any alteration in the rate, volume, quality or nature of any such discharge.

(2) A person permitted in terms of subbye-law (1) to discharge trade effluent into a public sewer shall, prior to any change in the nature or volume of that effluent, notify the Council in writing of the date on which it is proposed the change will take place and the Council may impose any additional conditions it may deem necessary.

(3) The Council may approve any change in volume of discharge or pollutant type or concentration, prior to discharge, where such discharges meet applicable pre-treatment standards and requirements or where such discharges would not cause a contravention of the wastewater treatment plant limitations and restrictions.

(4) Any person who discharges or causes or permits the discharge, directly or indirectly, of trade effluent into a public sewer without the prior written permission of the Council shall be guilty of an offence and liable to a fine not exceeding P5000 and to such charge as the Council may, with the approval in writing of the Minister, assess the conveyance and treatment of the effluent so discharged.

19. Control of trade effluent

Notwithstanding any other provision of these Bye-Laws, the Council may, by notice in writing to the owner of any premises from which trade effluent is discharged, require him or her to execute, at his or her expense, any of the following-

- (a) before it is discharged into a public sewer, subject the effluent to such treatment as will in the opinion of the Council prevent a contravention of bye-law 6 (1);
- (b) restrict the discharge of effluent to specified hours and the rate thereof to a specified maximum and install a tank, appliance or other equipment necessary to comply therewith;
- (c) in a drainage installation conveying trade effluent to a public sewer, construct one or more inspection, sampling or metering chambers of a material and dimension and in such a position as the Council may determine; or
- (d) provide and maintain a meter which measures the total volume of water drawn from a borehole, a spring or other natural source which is used on the premises.

20. Metering and assessment of trade effluent

(1) The Council may incorporate in a drainage installation conveying trade effluent to a public sewer, in such a position as it shall determine, a meter or gauge or other device for the purpose of ascertaining the volume or composition of the effluent, and it shall be an offence for any person to by-pass, open, break into or otherwise interfere with or damage any such meter, gauge or device.

(2) The Council shall be entitled, in terms of subbye-law (1), to install and maintain, at the expense of the owner, a meter, gauge or other device.

21. Installation of grease or oil interceptors

(1) The Council may, by written notice to the owner of any business or establishment such as a restaurant, hospital, school, business cafeteria, a car wash or motor vehicle repair garage where there is a risk that wastewater of a greasy or oily nature may be discharged into a public sewer system, require such owner to have a grease or oil interceptor or trap of a size and design approved by the Council, to prevent oil or grease entering the public sewer.

(2) A grease or oil interceptor shall be installed and connected so that it is at all times easily accessible for inspection, cleaning and removal of intercepted grease or oil.

(3) Wastewater containing grease or oil, discharged from fixtures and equipment including scullery sinks, pot and pan sinks, dishwashers, food waste disposals, soup kettles and floor drains, shall be drained into the public sewer system through an approved interceptor.

(4) The owner shall ensure that the interceptors are maintained and operated in an efficient manner by-

- (a) the periodic removal of the accumulated grease or oil as specified by the Council; and
- (b) preventing toilets, urinals, wash basins and other fixtures containing faecal material to flow through the interceptors

(5) Flushing a trap with hot water, or the use of chemicals or any agent to dissolve grease or oil, is specifically prohibited and under no circumstances shall, grease or oil removed in accordance with subbye-law 4 (a) be re-introduced into any public sewer system.

(6) The Council shall-

(a) require proof of pumping or cleaning of the grease or oil interceptors to be submitted to it upon request; and

(b) inspect, annually, all such installations provided for under subby-law (1).

(7) Any business or establishment for which a determination by the Council has been made that a grease or oil interceptor or trap is required, shall have four weeks from the date of notice by the Council to install an approved interceptor or trap.

(8) New facilities proposing to discharge into the public sewer system shall have an approved interceptor or trap installed prior to the installation to the public sewer system.

22. Monitoring facilities

(1) The Council shall require the owner of any building used for trade or commercial purposes to install a suitable sampling manhole to facilitate observation, sampling and measurement of water.

(2) The sampling manhole and monitoring equipment shall be located and maintained on the premises where the building used for trade or commercial purposes is situated.

(3) Where there is a significant difference in wastewater constituents and characteristics produced by operation of a single user, the Council may require that separate sampling manholes be installed for each separate discharge.

(4) The sampling manholes shall be constructed in accordance with the Council's requirements and all applicable construction standards and specifications.

(5) All sampling manholes and monitoring equipment shall be installed at the owner's expense, and shall be maintained so as to be safe and accessible at all times.

(6) Construction of any required sampling manholes and installation of monitoring equipment shall be completed within 90 days following written notification of the Council, unless the Council grants a time extension.

(7) Any owner discharging industrial effluent into a Council sewer, shall be required within three months of the coming into force of these Bye-Laws, to comply with bye-law 21.

23. Pre-treatment requirements

(1) An owner may, for the purpose of producing a discharge which will meet the requirements of any permission granted pursuant to these Bye-Laws, cause wastewater on the premises to undergo pre-treatment.

(2) Such pre-treatment facilities shall be constructed, operated and maintained at the expense of the owner.

(3) Plans and specifications for such pre-treatment facilities shall be submitted to the Council for approval.

24. Protection against accidental discharges

(1) The owner of the premises discharging industrial effluent shall provide protective measures against accidental discharges of prohibited substances into the public sewer pursuant to the provisions of these Bye-Laws, or as set forth in any permit issued thereof.

(2) Such measures shall consist of operational or other procedures and facilities as determined necessary or appropriate by the Council.

(3) Floor drains connected to the public sewer in any manufacturing, service or production area are prohibited.

(4) Any residue or by-product of pre-treatment, or any wastes subject to control or regulation under any other Act, shall be disposed of in accordance with the provisions of such Act.

(5) All costs of such measures undertaken under this bye-law shall be borne by the owner of the premises.

25. Trade effluent agreements

(1) Subject to the provisions of these Bye-Laws, any person producing trade effluent of a volume exceeding 50 cubic metres per week or with an effluent quality that exceeds any prescribed parameter shall, before the discharge of such effluent into the public sewer system, apply to the Council for a trade effluent agreement to be concluded between such person and the Council.

(2) A person with an existing trade effluent discharge at the time of commencement of these Bye-Laws for which a trade effluent agreement has not been applied for, shall have a period of 12 months to comply with subbye-law (1).

(3) An application for a trade effluent agreement shall be in the prescribed form as set out in the Fourth Schedule and shall be accompanied by the prescribed application fee.

(4) An application made under subbye-law (3) shall be accompanied by the required documentation, including-

- (a) name and address of the applicant;
- (b) volume of trade effluent to be discharged;
- (c) prescribed trade effluent constituents and characteristics;
- (d) time and duration of discharge;
- (e) average daily and 15 minute peak effluent flow rates;
- (f) site plans, floor plans, mechanical and plumbing plans and details to show all sewers and appurtenances by size, location and elevation;
- (g) description of activities, facilities and plant processes on the premises including all materials and type of materials which are, or could be, discharged;
- (h) each product produced by type, amount and rate of production;
- (i) number and type of employees and hours of work;
- (j) all necessary permits and licences legally required for conducting the business resulting in the discharge of the trade effluent;
- (k) site plans showing buildings and infrastructure;
- (l) plan of proposed or existing treatment systems prior to waste entering the public sewer system;
- (m) a technical specification of the manufacturing system;
- (n) a list of hazardous chemicals being used or to be used; and
- (o) any other information the Council may require.

(5) The terms and conditions of a trade effluent agreement shall include the fees and charges payable by the party in the agreement producing the trade effluent.

(6) The Council and an applicant for a trade effluent agreement shall agree and set dates for the periodic reviews of the agreement so as to determine-

(a) the need for an update of the terms of the agreement where any advance in industrial technology is required by the Council; or

(b) the requirement for changes in the composition of the trade effluent.

(7) An emergency review of the agreement may be made at any other time by the giving of 24 hours notice by either party where the probability of environmental damage is assessed to exist, due to the unforeseen effects of-

(a) the trade effluent or operations or equipment producing trade effluent; or

(b) an undertaking made or to be made by the Council with some other person, which undertaking affects the terms of the agreement.

(8) No person who is a party to a trade effluent agreement shall introduce an effluent quality, different from the agreed quality, into the trade effluent being discharged into the public sewer system without making an application to the Council for approval in terms subbye-law (1).

(9) The approval of the Council granted under subbye-law (8) shall be given on such conditions as the Council may determine.

(10) A monitoring officer shall, for the purpose of carrying out inspections, at any time make a site visitation to-

(a) take samples to verify the quality of the waste discharged;

(b) ensure that treatment processes and equipment are properly maintained and are operating well; and

(c) ensure that the site is in general compliance with the terms and conditions of the trade effluent agreement.

(11) A person shall not alter any of the terms and conditions of a trade effluent agreement or deal with waste in any manner contrary to the agreement concluded or interfere with or change the equipment and other devices agreed upon without the prior consent of the Council.

(12) The Council may, for the purpose of public safety, suspend the discharge of trade effluent for such time as it is necessary to put in place the required measures for public safety.

(13) A trade effluent agreement may be terminated by the giving of 14 days notice, by either party of any outstanding obligations thereof.

26. Power of Council to revoke permits issued

The Council may suspend or revoke any permit issued under these Bye- Laws, where the Council determines that the permit holder-

(a) has given false information in connection with the application for a permit;

(b) is incompetent in relation to the requirements of the permit;

(c) has contravened any of the provisions of these Bye-Laws or any condition or regulation pertaining to such permit;

(d) has failed to accurately report the wastewater constituents and characteristics of his or her discharge;

(e) has failed to report, in advance, increases in volume of wastewater discharged or the concentration of any pollutant discharged;

- (f) has failed to report, in advance, the introduction of a new pollutant into the wastewater discharged;
- (g) is refusing access to his or her premises for the purpose of inspection or monitoring;
- (h) has failed to make full payment of fees and charges; or
- (i) has failed to report accidental discharges.

27. Power of Council to take action against prohibited discharges

(1) The Council may, if any wastewater is discharged or proposed to be discharged into the public sewer system which contains prohibited substances or characteristics, or in the judgement of the Council may, have a damaging effect upon the wastewater treatment facilities, processes, equipment or the soil, vegetation, or ground water or could cause a hazard to life or constitute a public nuisance, take the following actions-

- (a) reject the wastewater;
- (b) require the pre-treatment to an acceptable condition for discharge to the public sewers;
- (c) require control over the quantities and rates of discharge; or
- (d) require payment to cover the added costs of handling, treating and disposing of substances not covered by an existing fee, sewer service charges or in a trade effluent agreement.

(2) Where the Council requires the pre-treatment or equalisation of the waste flow under subbye-law (1)(b), the design installation and main-tenance of the facilities shall be made at the owner's expense.

28. Power of Council to obtain information

(1) An authorised officer may obtain information concerning industrial processes which have a direct bearing on the type and source of trade effluent discharged into the public sewer system.

(2) An industry may withhold any information which it considers to be confidential:

Provided that such industry proves that if the information is released to the public, it may result in granting its competitors an unfair advantage over it.

29. Power of authorised officer to enter premises

An authorised officer may, at all times, enter property from which trade effluent is discharged into the public sewer system for the purposes of, but not limited to-

- (a) inspection;
- (b) observation;
- (c) sampling;
- (d) repair; or
- (e) maintenance of any portion of the wastewater facilities lying within such property.

30. Notice of contravention and penalties

(1) The Council shall issue, to any person who discharges or causes or permits the discharge, directly or indirectly, of a trade effluent into the public sewer system, contrary to the provisions of these Bye-

Laws, a written notice stating the nature of the contravention and requiring a remedial action to be taken thereof within a stated time limit not exceeding 30 days.

(2) Any person who continues any contravention beyond the time limit provided under subbye-law (1), shall be guilty of an offence and liable to a penalty not exceeding P5000 or to imprisonment for a term not exceeding two years or to both.

31. Non-application of Town Council (Public Sewers) Regulations (Cap. 40:02 Sub. Leg.)

The provisions of the Town Council (Public Sewers) Regulations shall cease to apply to Lobatse Town Council.

FIRST SCHEDULE

(bye-law 17 (2))

ACCEPTABLE DISCHARGE LIMITS TO COUNCIL SEWER



Category

Parameter

Unit

Acceptable

Maxim

Physical

1

Temperature at point of entry

°C

0 "" 43

43

2

Electrical Conductivity

mSm

""

500

3

pH (at 25°C)

""

6.0 "" 9.5

9.5

4

Suspended Solids

mg/l

500

1000

5

Settleable Solids (60 minutes)

mg/l

”

50

6

Fats, Oils and Grease (FOG)

mg/l

100

250

7

Caustic alkalinity (as CaCO₃)

mg/

”

2000

Chemical

1

Chemical Oxygen Demand (COD)

mg/l

500

5000

2

Phosphate (as P)

mg/

'''

30

3

Ammonia (as N)

mg/

'''

100

4

Chloride (as Cl)

mg/l

'''

500

5

Sodium (as Na)

mg/

'''

500

6

Fluoride (as F)

mg/l

'''

5.0

7

Sulphates (as SO₄,

mg/

500

1500

8

Sulphide (as S)

mg/l

""

50

9

Cyanide (as CN)

mg/l

""

20

10

Phenols (as C₆H₅OH)

mg/

""

50

11

Sugar Starch

mg/

""

1500

12

Total Dissolved Solids (at 105 °C)

mg/l

""

4000

13

Volatile Solvents

mg/l

""

Nil

Metals Gr 1

1

Iron (as Fe)

mg/

'''

20

2

Manganese (as Mn)

mg/

'''

20

3

Total Chrome (as Cr)

mg/l

'''

10

4

Silver (as Ag)

mg/l

'''

20

5

Zinc (as Zn)

mg/

'''

20

6

Nickel (as Ni)

mg/l

""

20

7

Cobalt (as Co)

mg/l

""

20

8

Titan (as Ti)

mg/

""

20

9

Tungsten (as W)

mg/

""

20

10

Aluminum (as Al)

""

20

Metals Gr 2

1

Arsenic (as As)

mg/l

2

Lead (as Pb)
mg/l

3
Copper (as Cu)
mg/l

4
Selenium (as Se)
mg/l

5
Cadmium (as Cd)
mg/l

6
Boron (as B)
mg/l

7
Molybdenum (as Mo)
mg/l

Total collective concentration of all metals in Group 1 shall not exceed 50mg/l

Total collective concentration of all metals in Group 2 shall not exceed 20mg/l

SECOND SCHEDULE
SEWERAGE FEES

(bye-law 13)

**CATEGORY AND TYPE OF
SERVICE**

CHARGES IN PULA

UNIT

REMARKS

1. SEWER CONNECTIONS CHARGES

CATEGORY

AMOUNT

(a) Serviced and un-serviced SHHA Plots

P500

Per Plot

Charged Once

(b) Small size plots (area up to 450m²)

P750

Per Plot

Charged Once

(c) Medium size plots (area 451 - 700m²)

P1000

Per Plot

Charged Once

(d) Multi-development (more than one Town House/Flat in one plot)

P750

Per Plot

Charged Once

(e) Large size plots area (area 701m² and above)

P1200

Per Plot

Charged Once

(f) Civic and community plots (Church, school community centre, Day care centre, clinics etc)

P2 000

Per Plot

Charged Once

(g) Commercial plots (Shops, Bars, Restaurants, Laundry, Filling Stations, Garages, Schools, Office etc)

P2 000

Per Plot

Charged Once

(h) Industrial (any type of industry including Hotels and Hospitals)

P3 000

Per Plot

Charged Once

2. COUNCIL VACUUM TANKER SERVICE

(a) SepticTank at Non-SHHA Plots in Non-SHHA areas

P100

Per 6m³ tanker load

Paid at Council Revenue Office in advance

(b) SepticTank at Non-SHHA Plots in Non-SHHA areas

P40

Per 2.5m³ tanker load

Paid at Council Revenue Office in advance

(c) SepticTank at SHHA Plots and Non-SHHA Plot in areas

P50

Per 6m³ tanker load

Paid at Council Revenue Office in advance

(d) SepticTank at Non-SHHA Plots in Non-SHHA areas

P20

Per 2.5m³ tanker load

Paid at Council Revenue Office in advance

(e) Pit Latrines

P20

Per 6m³ tanker load

Paid at Council Revenue Office in advance

(f) Pit Latrines

P8

Per 2.5m³ tanker load

Paid at Council Revenue Office in advance

3. PRIVATE VACUUM TANKER SERVICE

(a) Registration fee per tanker per year

P500

Each

Per annum

(b) Discharge fee at the treatment plant

P10

Perm3

Monthly invoice to Owner

4. YEARLY SEWERAGE SERVICE FEE

(a) Serviced and un-serviced SHHA Plots

P100

Per Plot

Plot Owners/occupier invoiced yearly

(b) Small size plots (area up to 450m²)

P150

Per Plot

As above

(c) Medium size plots (area 451-700m²)

P1000

Per Plot

Yearly invoice to owner

(d) Multi-development (more than one Town House/Flat in one plot)

P750

Per Plot

Yearly invoice to owner

(e) Large size plots (area 701m² and above)

P1500

Per Plot

Yearly invoice to owner

(f) Civic and community centre, Day care centre, clinics etc)

P1000

Per Plot

Yearly invoice to owner

(g) Commercial plots (Shops, Bars, Restaurants)

P1000

Per plot

Yearly invoice to owner

(h) Shopping Malls

P200

Per Unit

Invoiced yearly

i. Any type of shop

ii. Restaurant, shop with butchery, shop with cooking facility, and take away

(i) Lodge

P1000

Per plot

Yearly invoiced to plot owner/ occupier

(j) Hotel

i. Up to 50 rooms

P2500

Per hotel

Yearly invoice to plot owner/

ii. More than 50 rooms

P5 000

Per hotel

occupier

(k) Industrial Plot

A. With non-production activity/facility

P600

Owner invoiced yearly

B. With production activity/facility

<> i. Discharge up to 3000m³ per month

P0.75

Quarterly metered invoice<>

ii. Discharge between 3001-15,000m³ per month

P1

Quarterly metered invoice<>

iii. Discharge above 15,000m³ per month

P60011.25

Quarterly metered invoice

5. REUSE OF TREATED EFFLUENT

(a) Bulk consumers with own conveyances

P0.6

Per m³

to be sent

(b) Consumers tapping from Council facilities

P1.5

Per m³

to the consumer

Payment at LTC revenue

THIRD SCHEDULE

(bye- law 11)

APPLICATION FOR SEWER CONNECTION

LOBATSE TOWN COUNCIL

SEWERAGE DEPARTMENT TOWNSHIP SERVICE

DO>(To be filled in triplicate and forwarded to the Town Clerk, Lobatse Town Council, Private Bag 28, Lobatse)

DOI/we wish to apply for a sewer connectionto my/our plot. Details are as stated below:

DO Date:

.....
Signature of applicant

PART A

NAME:

Receipt No:

ADDRESS:

(Attach photocopy)

.....

Date:

PLOT NO:

CONNECTION FEE: P

EXT/BLOCK NO:

LOCATION:

CATEGORY OF PLOT:

.....

AREA: Sqm

TELEPHONE NO. :HOUSE:

OFFICE

PART B

Existing sanitary facility (if any) septic tank, pit latrine, aqua privy etc. (delete where necessary)

.....

Distance of plot boundary to the nearest Council sewer

Inspection chamber invert level

Council manhole invert level

Distance in elevation between Council sewer and plot connection

PART C

Sewer connection fees for different sizes and categories of plots:

CATEGORY AND TYPE OF SERVICE

CHARGES IN PULA

UNIT

REMARKS

SEWER CONNECTION CHARGES

CATEGORY

AMOUNT

(a) Serviced and un-serviced SHHA Plots

P500

Per plot

Charged Once

(b) Small size plots (area up to 450m²)

P750

Per plot

Charged Once

(c) Medium size plots (area 451-700m²)

P1 000

Per plot

Charged Once

(d) Multi-development (more than one Town House/Flat in one plot

P750

Per plot

Charged Once

(e) Large size plots (area 701m² and above)

P1 200

Per plot

Charged Once

(f) Civic and community plots (Church, school, community centre, Day care centre, clinics etc)

P2 000

Per plot

Charged Once

(g) Commercial plots (Shops, Bars, Restaurants, Laundry, Filling Stations, Garages, Schools, Office etc)

P2 000

Per plot

Charged Once

(h) Industrial (any type of industry including Hotels and Hospitals)

P3 000

Per plot

Charged Once

NOTE:

1. Connections shall be subject to the following:

(a) Sewer connection will be made only after payment of the prescribed fees and obtaining a written approval from the Council.

(b) Provision of sewer connection is subject to the Statutory Instrument No 37 of 1982, Town Council (Public Sewer) Regulations 1982 and Lobatse Town Council Public Sewer Bye-Laws.

(c) The suitability of effluent to be discharged into council sewerage system.

2. Cost of all works (excavation, materials, laying of pipes etc) will be borne by the applicant and should be done by a registered contractor under the supervision of the Council. Sketch of drainage installation and proposed connection to council sewer:

3. Yearly sewerage maintenance/service fees will be payable as follows:

CATEGORY AND TYPE OF SERVICE

CHARGES IN PULA

UNIT

REMARKS

YEARLY SEWERAGE SERVICE FEE

<IN:LF:0.622222,FI:-0.622222> a. Serviced and un-serviced SHHA Plots invoiced yearly

P100

Per plot

Plot Owners/occupier

<IN:LF:0.622222,FI:-0.622222> b. Small size plots (area up to 450m2)

P150

Per plot

Yearly invoice to owner

c. Medium size plots (area 451-700m2)

Per plot

Yearly invoice to owner

<IN:LF:0.622222,RT:0,FI:-0.622222> d. Multi-development (more than one Town House/Flat in one plot)

P750

Per plot

Yearly invoice to owner

<IN:LF:0.622222,RT:0,FI:-0.622222> e. Large size plots (area 701m² and above)

P1 500

Per plot

Yearly invoice to owner

<IN:LF:0.622222,RT:0.176389,FI:-0.622222> f. Civic and community plots (Church, school, community centre, Day care centre, clinics etc)

P1 000

Per plot

Yearly invoice to owner

<IN:LF:0.622222,RT:0.420139,FI:-0.622222> g. Commercial plots (Shops, Bars, Restaurants)

P1 000

Per plot

Yearly invoice to owner

<IN:LF:0.622222,RT:0.0833333,FI:-0.622222> h. Shopping Malls

i. Any type of shop

P200

Per unit

Invoiced yearly

- ii. Restaurants, shop with butchery, shop with cooking facility, and take away

<IN:LF:0.622222,RT:0,FI:-0.622222> i. Lodge

P1 000

Per plot

<IN:LF:0,RT:0.153472>Yearly invoiced to plot owner/ occupier

<IN:LF:0.622222,RT:0,FI:-0.622222> j. Hotel

- i. Up to 50 rooms

P2 500

Per hotel

Yearly invoice to plot

- ii. More than 50 rooms

P5 000

Per hotel

owner/occupier

<IN:LF:0.622222,RT:0,FI:-0.622222> k. Industrial Plot

<IN:LF:0.622222,RT:0.0368056,FI:-0.622222> A. With non-production activity/facility

P600

Owner invoiced yearly

<IN:LF:0.622222,RT:0,FI:-0.622222> B. With production activity/facility

<> i. Discharge up to 3000m3 per month

P0.75

Quarterly metered invoice<> ii. Discharge between 3001-15,000m3

<IN:LF:0,RT:0.0736111>per month

<IN:LF:0,RT:0.0736111>1.00

<IN:LF:0,RT:0.0736111>Quarterly metered invoice<> iii. Discharge above 15,000m3

per month

1.25

Quarterly metered invoice

4. All the above taffifs are subject to review.

5. I / we have read the above and I / we agree to be bound by the conditions above

Signature of Applicant:

Date:

For official use only

Comments from the Council:

.....

.....

Received in Council by:

Date:

Approved/Rejected:

For/TOWN CLERK

Date:

FOURTH SCHEDULE
INDUSTRIAL EFFLUENT DISCHARGE APPLICATION

(bye-law 17)

1. Name of Company:

2. Postal Address:

.....
Plot No:
Physical Location:
Telephone number

3. Contacts

Managing Director:
Production Manager:
Effluent Management Contact Person:
.....

4. Type of manufacturing or processing and the short description of the industry and the layout of sewerage facilities including proposed location of discharge of industrial effluent to sewer.

.....
.....
.....

5. Production volumes of the product

Weights or volumes (state units)
per year:
Waste production per year
Weights or volume (state units)

6. Water supply

(a) Estimated water to be purchased: m³ per month
(b) Water to be obtained from other sources-boreholes: m³ per month
(c) Water entering with raw product m³ per month
TOTAL A m³ per month

7. Water consumption

(a) Industrial
(i) Quantity of water in the end product m³ per month
(ii) Quantity of water lost by evaporation m³ per month
(iii) Quantity of water used as boiler make up m³ per month
(iv) Water used for other applications (e.g. cooling, cleaning, washing, gardens, etc)
..... m³ per month
TOTAL B m³ per month

(a) Domestic

(i) total number of employees (Allow 1m³/person/month) m³ per month

TOTAL C m³ per month

8. Effluent discharge to sewer:

- (a) Metered volume (if known) m³ per month
- (b) Estimate unmetered volume (see * below) m³ per month
- (c) Discharge factor [(A - (B+C))/A x 100]%
- (d) Estimate average rate of discharge m³ per month
- (e) Estimate maximum rate of discharge m³ per month
- (f) Periods of maximum discharge (e.g. 07:00 to 09:00)

.....

*In the event that no effluent meter is installed on the premises, the estimated volume of unmetered effluent discharged to sewer is calculated as follows:

A - (B+C) = m³ per month

9. Location of public sewer into which it is / will be discharged

State name of street/area):

10. If wastes are not discharged to public sewer

to where are they discharged or treated?

11. Indicate period of shut-downs for annual maintenance

12. Furnish a flow diagram indicating the different streams of wastewater.

(Please attach detailed diagrams on an A4 page)

13. Details/Drawings of the existing/proposed wastewater pre-treatment, storage/recycling and discharge:

(Please attach detailed diagram)

14. State the loading of the effluent (and attach Certificate of Analysis)

COD

_____ mg/l as O₂

Total Suspended Solids

_____ mg/l

Settleble solids (60 minutes)

_____ mg/l

Total Dissolved Solids

_____ mg/l

PH

_____ mg/l

Temperature

_____ °C

Sulphate

_____ mg/1 as SO₄

Ammonia

_____ mg/1 as N

Cyanide

_____ mg/1 as CN

Total Phosphates

_____ mg/1 as P

Chloride

_____ mg/1 as Cl

Nitrate

_____ mg/1 as N

Oil, fats and grease

_____ mg/1

Sulphide

_____ mg/1 as S

Chromium

_____ mg/1 as Cr

Cadmium

_____ mg/1 as Cd

Mercury

_____ mg/1 as Hg

Phenols

_____ mg/1

Arsenic

_____ mg/1 as As

Boron

_____ mg/1 as B

Copper

_____ mg/1 as Cu

Zinc

_____ mg/1 as Zn

Lead

_____ mg/1 as Pb

Selenium

_____ mg/1 as Se

Manganese

_____ mg/1 as Mn

Nickel

_____ mg/1 as Ni

Iron

_____ mg/1 as Fe

Sodium

_____ mg/1 as Na

Cobalt

_____ mg/1 as Co

Other industry specific analysis

.....

.....

.....

.....

.....

.....

15. Description for methods of handling any solid waste and/or sludge from industrial processes

.....

.....

.....

.....

16. State the safety precautions for the storage of the oil and chemicals such kerb walls

.....
.....
.....

17. Describe precautions taken to prevent storm water, surface wash water entering sewers

.....
.....

.....
18. Is the expansion of the industry planned or seen? If so, when? To what extent will the expansion increase the volume or change the quality of the industrial effluent discharge?

.....
.....
.....
.....
.....

19. Any other information

.....
.....
.....
.....

20. Conditions of acceptance of industrial effluent:

This application shall only be granted on the applicant's undertaking to observe the following terms and the conditions and any other further special reasonable conditions which the Council may deem fit to impose:

- (a) The applicant shall annex hereto descriptions and a statement of the dimensions of grease and oil traps, screens, neutralising tanks and any other provisions made for the pretreatment of effluent before it s discharged to the sewer.
- (b) The applicant submits plans showing the reticulation systems on his premises for domestic wastewater and industrial effluent.
- (c) The applicant shall comply with the provisions of the Council's drainage and Plumbing by-laws concerned with the protection of its and the Council's employees from injury and its sewers and wastewater treatment plants from damage.
- (d) The applicant shall notify the Council as soon as possible of any material alterations in the nature of the quality and quantity of the effluent specified in this application or to any information supplied herein.
- (e) The applicant shall within 14 days from the day of this application procure a representative sample (two litres) of the industrial effluent to be discharged in to the sewer. This sample shall be free from domestic sewage. One half of this sample shall be submitted to the Council for analysis. Said sample shall be accompanied by a report of analysis made on the other half of the sample by a quality assured laboratory approved by the council.

(f) In case of a newly established industry, the period specified above may, at the discretion of the Council, be extended for a period considered reasonable.

(g) The applicant hereby agrees that industrial effluent standards and tariffs will be adhered to, and will enter in industrial Trade Effluent Agreement with the Council.

(h) The applicant hereby declares and warrants that the information supplied by him in this application is, to the best of his knowledge and belief, correct.

(i) The applicant agrees that the information contained in this application shall form the basis on which the council grants this application.

Applicant Name:

Position:

Date:

NOTE: Drawings/information to include with application

- "¢ General layout of the factory
- "¢ Water supply and sewer reticulation systems
- "¢ Storm water drainage
- "¢ Effluent quality analysis
- "¢ Effluent Quality Management Plans
- "¢ Other safety precautions

Name of Respondent Signature

Title/Position

Date:

This is done and signed at this day of



.....
FOR INDUSTRY

.....
FOR LTC

Printed Name:

Printed Name:

Position/Post:

Position/Post:

Postal address:

Postal address:

.....

.....

.....

Physical address:

Physical address:

.....

.....

.....

.....



<IN:LF:0.00694444,RT:1.24306>**Witnesses**

<IN:LF:0.00694444,RT:1.24306>**First Witness**

<IN:LF:0.00694444,RT:0>

<IN:LF:0.00694444,RT:0>.....
Signature

<IN:LF:0.00694444,RT:0>.....
Signature

<IN:LF:0.00694444,RT:0>.....
Printed Name

<IN:LF:0.00694444,RT:0>.....
Printed Name

<IN:LF:0.00694444,RT:0>.....
Occupation

<IN:LF:0.00694444,RT:0>.....
Occupation