

ANNEXURE A: GENERAL RULES REGARDING CHARGES

DEFINITIONS

In this Schedule, unless the context otherwise indicates -

"half year" means the period of six months commencing on 1 January and 1 July in each year, as the case may be;

"quarter" means the period of three months commencing on 1 January, 1 April, 1 July and 1 October in each year, as the case may be;

"period" the date of the last meter reading preceding the end of the quarter.

A.1 GENERAL RULES REGARDING CHARGES FOR THE USE OF THE MUNICIPALITY'S SEWERS AND WASTEWATER TREATMENT WORKS IN ACCORDANCE WITH CLAUSES 103 AND 104

- A.1.1 The charge determined by the Municipality accruing in respect of each -
- a) half-year, becomes due and payable in advance on 1 July and 1 January of each year: Provided that the charge payable in terms of **Clause 104** in respect of trade/industrial effluent is payable half-yearly in arrears; or
 - b) quarter, becomes due on the first day of such quarter and payable within six weeks after the first day of such quarter.
- A.1.2 If any charge determined by the Municipality or its authorised agent in respect of any type of premises is based on the number of inmates, patients, servants, students, staff or other persons resident or occupying such premises the Municipality or its authorised agent may require a certificate specifying the number of persons occupying or accommodated on such premises during any particular period to be furnished to it by the person in charge of such premises.
- A.1.3 If any person who is required to furnish a return in terms of these By-laws, or this annexure or to provide such other information as may be necessary to enable the Municipality or its authorised agent to assess the amount payable in terms of a charge determined by the Municipality or its authorised agent, fails to do so within 30 days after having been called upon to do so by notice in writing, he or she is liable to pay such charges as the Municipality or its authorised agent may then assess on the best information available to it, subject to the Municipality or its authorised agent's entitlement to levy any additional charge determined by the Municipality or its authorised agent which may be applicable when further information becomes available.
- A.1.4 In all cases of dispute as to the date from which a charge becomes applicable, the decision of the Municipality is final.
- A.1.5 In the case of premises not connected to the municipal sewer the charges determined by the Municipality or its authorised agent and contemplated in **Clause 104** shall become payable with effect from the date on which the Municipality or its authorised agent requires that a connection be made or with effect from the date when the premises are in fact connected, whichever is the earlier.
- A.1.6 The charges determined by the Municipality or its authorised agent for sewage, trade/industrial effluent, swimming pools, fountains and reservoirs, remain effective in the case of buildings wholly unoccupied or in the course of demolition until the date on which the Municipality or its authorised agent is requested to seal the openings to the Municipality's or its authorised agent's sewer.

A.1.7 If any change is made in the nature of the occupation or the use of any premises which requires the application of a different charge determined by the Municipality or its authorised agent, no claim for any adjustment of an account rendered or any refund of monies paid in terms of these By-laws will be entertained by the Municipality or its authorised agent unless notice in writing of the change is given to the Municipality or its authorised agent within 30 days of the date of its occurrence.

A.1.8

A.1.8.1 The Municipality or its authorised agent must designate the category of domestic sewage into which premises connected to the sewer fall for purposes of assessment of the amount payable in accordance with the charge determine by the Municipality or its authorised agent.

A.1.8.2 For the purpose of the designation referred to in this rule the Municipality or its authorised agent may require the owner or occupier of any premises to furnish it with information to its satisfaction reflecting the number of accommodation units or dwelling units on the premises.

A.1.9

A.1.9.1 The charges determined by the Municipality for premises other than those referred to under **Clause A.1.2** shall be assessed in advance for each quarter, and shall be based on the quantity equal to the water consumption metered in terms of **Clauses 30 to 36** for the meter reading cycle of 3 months preceding the last meter reading prior to the quarter in question provided that:

- a) in the case of new premises or if the record of metered consumption on existing premises does not extend over the full meter reading cycle of three months or if, in the opinion of the Municipality or its authorised agent, the record of metered consumption is not a suitable basis for the assessment of charges by reason of a change in the occupation, use or ownership of premises, or special contingency, the charges for the coming quarter shall, subject to adjustment when the consumption of water for the three monthly period becomes available, be based on the Municipality's or its authorised agent's estimate of the quantity of water to be consumed and discharged into the sewer on such premises during such coming three monthly period;
- b) in the case of premises where the water consumed is not used solely for domestic purposes and in the absence of any direct measurement, the quantity of water discharged to a sewer during the quarter shall be assessed by the Municipality according to the quantity of water consumed on the premises during that period, and in the assessment of that quantity, deductions shall be made for the quantity lost during the process of trade or manufacture or present in the final product;
- c) if the quantity of water obtained from a source other than the Municipality's water supply and used on the premises during a cycle is unknown, the charges shall be based on the Municipality's estimate of the total water consumption on such premises during the aforesaid meter reading cycle; and
- d) water consumption recorded by a meter installed in terms of :
 - (1) **Clause 104.6** shall be paid for on the basis of the charges determined by the Municipality or its authorised agent for unspecified premises, or the charges determined by the Municipality or its authorised agent for trade/industrial effluent, if applicable, but not on the basis of both such charges;
 - (2) **Clause 104.6 b)** shall not be subject to any charge; and

(3) **Clause 101.1 c)** shall not be subject to any charge for domestic effluent but subject to a charge for industrial effluent in terms of **Section A.2** hereof.

A.1.9.2 If on any premises the Municipality or its authorised agent, after consideration of its size, the number of water supply points and the complexity of the water installation, considers it impractical to determine the quantity of sewage and effluent discharged into the sewer from records of metered water supplied by the Municipality or authorised agent, it may at its discretion:

- a) direct that the water installation be altered at the cost of the owner, to facilitate separate metering of water discharged into the sewer after use, and other water consumed, but not so discharged; or
- b) assess the quantity of sewage or effluent discharged into the sewer in any six monthly meter reading period in accordance with the quantity of water used on the premises of a similar nature as determined by the Municipality or its authorised agent.

A.2 GENERAL RULES REGARDING CHARGES FOR TRADE/INDUSTRIAL EFFLUENT

The rules set out below are applicable for the purposes of **Clauses 104** and **105** in connection with the charges determined by the Municipality or its authorised agent which are payable for the acceptance, conveyance and treatment of trade/industrial effluent discharged from any premises:

A.2.1 The owner or occupier of premises on which any trade or industry is carried on and from which, as a result of such trade or industry or of any process incidental thereto, any effluent is discharged to the sewer, shall, in addition to any other charge determined by the Municipality or its authorised agent for which he or she may become liable, pay to the Municipality or its authorised agent a trade/industrial effluent charge including any minimum charge. Such charges shall be determined by the Municipality or its authorised agent and shall be calculated -

- a) on consumption readings taken on a monthly basis; and
- b) in accordance with the arithmetic mean of the results of the analyses, specified in **Clause A.2.3**, of not less than eight grab samples of effluent taken at any time during a four month assessment period: provided that the Municipality or its authorised agent may in its discretion use another method of assessment if in its opinion it will lead to a fairer result.

A.2.2 Whenever a sample is taken by the Municipality or its authorised agent in terms of **Clause A.2.1**, one half thereof shall, on the request of the owner, occupier or person in control of the premises, be made available to him or her and like provisions shall apply to any samples taken by the owner, occupier or person in control in favour of the Municipality or its authorised agent.

A.2.3 The analyses referred to in **Clause A.2.1** must be in accordance with the methods of chemical analysis normally used by the Municipality or its authorised agent for the purpose and must include:

Ammonia as N (NH₄-N)
Cadmium
Chemical Oxygen Demand (COD)
Chlorides (Cl)
Chromium
Cobalt
Copper
Electrical Conductivity (EC)

Elements listed in **Annexure D**

Iron
Lead
Manganese
Nickel
Oil and Grease
Orthophosphate as P (O-PO₄)
pH
Sodium
Sulphates (SO₄)
Suspended Solids (SS)
Total Dissolved Solids (TDS)
Zinc
Other (Specified)

- A.2.4 In the absence of any direct measurement, the quantity of trade/industrial effluent discharged during a month must be assessed by the Municipality or its authorised agent according to the quantity of water consumed on the premises during that period, and in the assessment of that quantity a deduction must be made of the quantity used on the premises for domestic purposes and the quantity lost to the atmosphere during the process of trade or manufacture, or present in the final product.
- A.2.5 If a meter whereby the quantity of water consumed on the premises is measured is proved defective, an appropriate adjustment must be made to the quantity of trade/industrial effluent discharged when calculated as provided by **Clause 105**.
- A.2.6
- A.2.6.1 If trade/industrial effluent is discharged into the sewer from more points than one, whether on the same floor or on different floors of improvements on premises, the Municipality or its authorised agent may in its discretion for all the purposes of assessing a charge for trade/industrial effluent including the taking of test samples in accordance with **Clause A.2.1**, treat each such point of discharge as a separate point for the discharge of trade/industrial effluent into the sewer.
- A.2.6.2 For the purpose of calculating, as prescribed in **Clause A.2.4**, the quantity of effluent discharged from each point of discharge as aforesaid, the total water consumed on the premises must be allocated as accurately as is reasonably practicable, after consultation between the authorised agent and the occupier, among the several points of discharge.
- A.2.7 If a grab sample taken at any time after the four month assessment period should reveal that the total pollutant load is altered in such a way as to place a heavier load on the Municipality's or its authorised agent's wastewater treatment works, and the owner, occupier or person in control has failed to advise the Municipality or its authorised agent in writing of the change, the owner or occupier will immediately become liable for twice the difference between the assessed charge and the charge that would have been levied had the total pollutant load been correctly assessed.
- A.2.8 If an inspection should reveal that the owner or occupier or person in control has failed to discharge during periods specified by the Municipality or its authorised agent in accordance with **Clause 104.4**, the owner or occupier will immediately become liable for the full amount of the trade/industrial effluent charge.

A.2.9

- A.2.9.1 The Municipality or its authorised agent may, during any half yearly period referred to under the definitions in this Annexure A, render a provisional account in respect of a part of such period (which part must as nearly as practically possible be a period of thirty days) and the amount of such account must be determined as provided in **Clause A.2.9.2** and the Municipality or its authorised agent must as soon as possible after the end of such period render an account based on the actual measurements and results obtained in terms of **Clause A.2.1** for such period, giving credit for any sum paid on a provisional account as aforesaid.
- A.2.9.2 The amount of a provisional account referred to in **Clause A.2.9.1** must be determined by the Municipality or its authorised agent by reference to such previous discharge on the same premises as would in its opinion, constitute a reasonable guide to the quantity of effluent discharged over the period covered by the provisional account by reference to such discharge on other similar premises which, in its opinion, affords reasonable guidance.
- A.2.9.3 A provisional account rendered in terms of **Clause A.2.9.1** is payable on the date stipulated therein.
- A.2.9.4 An owner's decision to dispute an account shall not entitle him or her to defer payment beyond the due date stipulated in the account.

A.3 GENERAL RULES REGARDING CHARGES FOR AN ON-SITE SANITATION SERVICE

The following rules are applicable for the purposes of **Clause 88** in connection with the charges determined by the Municipality which are payable for the provisions of a sanitation service:

- a) a commencement charge as determined by the Municipality will be payable in respect of the provision of sanitation services before the commencement of such services;
- b) night soil removal and the emptying of chemical toilet services may be provided on a tri-weekly, nightly, daily or other basis at the discretion of the Municipality or its authorised agent;
- c) the charges for night soil removal must be based on the number of pails and, for a pit vacuum tank or chemical toilet removal service, on the volume removed;
- d) a mobile or temporary toilet may be provided at the discretion of the Municipality or its authorised agent;
- e) a vacuum tank removal service may be provided at the discretion of the Municipality or its authorised agent; and
- f) any sanitation service provided by the Municipality or its authorised agent may be subject to an escalating tariff within six months of the introduction of a suitable waterborne system.

ANNEXURE B: APPLICATION FOR PERMISSION TO INSTALL APPLIANCES FOR LIFTING SEWAGE

NOTE: On premises where it is not possible to drain all sanitary fittings by gravitation to a connecting sewer, the Municipality or its authorised agent will consider applications for lifting sewage in compliance with the requirements of the building regulations and any other applicable law only in respect of those parts of premises which cannot be drained by gravitation. In the case of single basements, consideration must be given to the installation of sanitary fittings on the ground floor or higher floors only.

In all cases where lifting of sewage is permitted, the Municipality or its authorised agent will stipulate the rate of discharge, which will be normally limited to a maximum of 240 litres per minute.

A.4 INFORMATION TO BE FURNISHED BY OWNER

B.1.1 The owner of the premises must furnish the following information and the relevant literature and characteristic curves and sign the application and undertaking:

- a) make of appliance, name of supplier and purpose for which the appliance is designed;
- b) kW rating and speed of motor;
- c) maximum rate of discharge in litres per minute;
- d) size of pumping main and velocity of discharge;
- e) capacity and dimensions of the storage tank with the depth given as liquid depth below the inlet drain; and
- f) descriptions of stand-by equipment, automatic controls, warning systems, and other relevant information.

B.1.2 Any matters relating to the electric power connection and switchboard must be referred to the electricity supplier and will be subject to the approval of that supplier.

**ANNEXURE B: FORM OF APPLICATION FOR PERMISSION
TO INSTALL AN APPLIANCE FOR LIFTING SEWAGE**

Date

Permit number

Issued By:
Name & Designation

Issued To:
Name & Designation

**MOGALE CITY LOCAL MUNICIPALITY
DIRECTORATE INFRASTRUCTURE SERVICES**

PERMIT

TO INSTALL AN APPLIANCE FOR LIFTING SEWAGE

Manager: Water and Sanitation
P O Box 94
KRUGERSDORP
1740

MOGALE CITY LOCAL MUNICIPALITY

FORM OF APPLICATION FOR PERMISSION TO INSTALL AN APPLIANCE FOR LIFTING SEWAGE

Application for a Permit to install an appliance for lifting sewage (To be completed in block letters, in duplicate by a professional engineer and signed by the applicant, the owner of the premises and the professional engineer)

I,duly authorised to act on behalf ofand hereinafter referred to as the applicant, hereby apply in terms of the provisions of the Mogale City Water Services By-laws, for permission to install an appliance to lift sewage on the basis of the information set out herein.

1. GENERAL INFORMATION

LOCATION OF PREMISES			
Street Name	Street Number	Erf Number	Contact Number
			Tel no: Fax no: E - Mail
Postal Address		Physical Address	
Contact Person		Account No.	
OWNERSHIP OF THE PREMISES			
Name of Owner		Address of Owner	
REASON FOR INSTALLING THE APPLIANCE TO LIFT SEWAGE			
Name of Applicant		Designation of Applicant	
REGISTERED NAME OF THE PERSON, BUSINESS OR ENTITY TO WHICH THE PERMIT WILL APPLY			

2. INFORMATION RELATING TO THE APPLIANCE FOR LIFTING SEWAGE

Type of appliance				
Make of supplier				
Name of supplier				
Address of supplier				
Contact particulars of the supplier		Tel no:	Fax no:	e-mail:
Purpose for which the appliance is designed				
Rate of the motor	kW			
Speed of the motor	rpm			
Maximum rate of discharge	ℓ/m			
Frequency of discharge	min/h	maximum:	minimum:	
Times of discharge	h	maximum:	minimum:	
Days of discharge				
Diameter of pumping main	mm			
Velocity of discharge	m/s			
Capacity of the storage tank from which the sewage is lifted, with the depth given as liquid depth below the inlet drain	m ³			
Internal dimensions of the storage tank from which sewage is lifted	mxmxm			
Method of control				
Degree of automation				
Warning systems				
Method of response to warnings				
Time to respond to warnings	minutes			
Description of standby equipment				
Power requirements	kW			
Other relevant information				

3. TECHNICAL INFORMATION/LITERATURE SUBMITTED WITH AND ATTACHED TO THIS APPLICATION

	Manner in which the information/literature is submitted
Technical details of the appliance	
Characteristic curves	
Wiring diagrams	
Control systems	
Warning systems	
Location of the appliance on the premises	
Point of discharge into the municipality's wastewater disposal system	
Type and number of sanitary fittings discharging to the appliance lifting the sewage	
Calculations and certificate of correctness from a person qualified in terms of the National Building Regulations	
Agreement with a suitably qualified person/organization to service and maintain the appliance	
Other information/literature the applicant wishes to submit in support of this application	

4. FOR OFFICIAL USE

PERMIT	ISSUED BY	SECTION: ELECTRICITY NOTIFIED (YES/NO)	DATE	DATE OF ISSUE OF PERMIT

MOGALE CITY LOCAL MUNICIPALITY

Conditions of Permission to Install an Appliance for Lifting Sewage

This application shall only be granted on the applicant’s undertaking, as he or she is by virtue of his signature hereto appended deemed to do, to observe the following terms and conditions and any further special conditions, which the Municipality or its authorised agent may deem fit to impose in any particular case:

- a) a valid permit to install an appliance for lifting sewage is held, and the conditions stated in the permit are obeyed;
- b) the work is carried out to the satisfaction of the Municipality or its authorised agent;
- c) the conditions of the Drainage Regulations as noted in the National Building Regulations are obeyed;
- d) the applicant shall submit to the Municipality or its authorised agent if requested, plans showing the sewerage reticulation systems on the premises;
- e) the applicant shall comply with any direction given to him or her by the Municipality or its authorised agent verbally or in writing for the purpose of ensuring the applicant’s compliance with the Mogale City Water Services By-laws;
- f) the applicant shall notify the Municipality or its authorised agent, in writing, as soon as possible after he or she becomes aware of, or at least 14 days before anything is done to cause, any material alteration in the nature or quantity or discharge of the sewage specified in this application or in any of the facts stated by him or her therein;
- g) similarly, the applicant shall immediately notify the Municipality or its authorised agent, in writing, if any change in the nature, quantity or rate of discharge of sewage occurs, or is proposed, and which would exceed any limits in the permit; and
- h) the applicant shall ensure that the installation is maintained and serviced in accordance with the manufacturers’ or suppliers’ recommendations and shall keep a record of such maintenance or services for inspection by the Municipality or its authorised agent during business hours.

The applicant hereby declares and warrants that the information given by him or her on this form or otherwise in connection with this application is to the best of his or her knowledge and belief in all respects correct; and the applicant agrees that the said information, being in all respects correct, shall form the basis on which the Municipality or its authorised agent grants this application.

I, (full name)

the undersigned, duly authorised to act on behalf of

to be known as the applicant, declare that the information given on this form is accurate to the best of my knowledge and accept that the said information may be used as basis for the issuing of a permit to install an appliance for lifting sewage.

DATE

SIGNATURE OF APPLICANT

_____ Authority or Capacity of the applicant

I, (full name)
 the undersigned, being the owner of the premises or being authorised to act on behalf of the
 owner (full name and registration number of the owning entity).....

 consent to the installation of the appliance for the lifting of sewage.

 DATE

 SIGNATURE OF OWNER OR
 AUTHORISED REPRESENTATIVE
 OF THE OWNER

_____ Authority of the
 Representative of the owner

I, (full name)
 the undersigned, being a professional engineer (registration number:.....)
 having designed the appliance to lift sewage on the premises confirm that the appliance can
 perform the purpose for which it has been designed and is in accordance with the
 requirements of the National Building Regulations.

 DATE

 SIGNATURE OF THE
 PROFESSIONAL ENGINEER

Permission is hereby granted by me on behalf of the Municipality, I being duly thereunto
 authorised, for the installation of an appliance to lift sewage into the Municipality's
 wastewater disposal system in accordance with the Mogale City Water Services By-laws as
 described in this form and in the circumstances therein set forth: provided that this
 permission shall be revocable by the Municipality or its authorised agent at any time at its
 absolute discretion on the expiry of reasonable notice in writing given by it to the applicant.

The said permission is given subject also to the following special conditions:

SIGNED by or on behalf of the
 Manager: Water and Sanitation _____

SIGNATORY (full name)

CAPACITY

 SIGNATURE OF SIGNATORY

 DATE

**ANNEXURE C: FORM OF APPLICATION FOR PERMISSION
TO DISCHARGE TRADE/INDUSTRIAL EFFLUENT INTO MOGALE
CITY LOCAL MUNICIPALITY'S WASTEWATER DISPOSAL SYSTEM**

Date

Permit number

Issued By:
Name & Designation

Issued To:
Name & Designation

**MOGALE CITY LOCAL MUNICIPALITY
DIRECTORATE INFRASTRUCTURE SERVICES**

PERMIT

**TO DISCHARGE TRADE / INDUSTRIAL EFFLUENT
INTO THE WASTEWATER DISPOSAL SYSTEM**

Manager: Water and Sanitation
P O Box 94
KRUGERSDORP
1740

MOGALE CITY LOCAL MUNICIPALITY

FORM OF APPLICATION FOR PERMISSION TO DISCHARGE TRADE/INDUSTRIAL EFFLUENT INTO THE MUNICIPALITY'S WASTEWATER DISPOSAL SYSTEM

Application for a Permit to Discharge Trade/Industrial Effluent into the Wastewater Disposal System (To be completed in block letters, in duplicate and to be renewed on a yearly basis)

I,duly authorised to act on behalf ofand hereinafter referred to as the applicant, hereby apply in terms of the provisions of the Mogale City Water Services By-laws, for permission to discharge trade/industrial effluent into the Municipality's wastewater disposal system on the basis of the information set out herein.

1. GENERAL INFORMATION

LOCATION OF BUSINESS			
Street Name	Street Number	Erf Number	Contact Number
			Tel no: Fax no: E - Mail
Postal Address		Physical Address	
Contact Person		Account No.	
OWNERSHIP OF THE PREMISES			
Name of Owner		Address of Owner	
NATURE OF PROCESSES OR TRADE PERFORMED ON THE PREMISES			
Name of Applicant		Designation of Applicant	
REGISTERED NAME OF THE BUSINESS TO WHICH THE PERMIT WILL APPLY			

2. INFORMATION RELATING TO EMPLOYEES:

	Office	Trade/industry
(1) Total number of daily employees (not incl. In (4)):		
(2) Number of shifts worked per day:		
(3) Number of days worked per week:		
(4) Number of persons resident on the premises:		
(5) Is a canteen provided?:		

3. QUANTITY OF EFFLUENT AND DISCHARGE CONDITIONS

CONNECTION POSITION GPS Reading/ Connection Position	MAXIMUM DISCHARGE RATE IN kℓ		
	Per Month	Per Day	Per Hour
Discharge periods (hours)	Monday to Friday	Saturday	Sunday

4. FACTS RELATING TO THE CONSUMPTION OF WATER**Total number of litres of water consumed in six months:**

	Meter No.	Meter No.	Meter No.	Total
Water purchased from the Municipality				
Water from borehole or other source				
Water entering with raw materials				
Section of plant served by meter				
Total A				

5. WATER CONSUMPTION

(1) Trade/industrial purposes	kℓ/month
Quantity of water in product	
Quantity of water lost by evaporation	
Quantity of water used as boiler make-up	
Quantity of water for other uses (e.g. cooling, gardening, etc.)	
Total B	
(2) Domestic purposes	
Total number of employees (Allow 1 kilolitre/person/month)	
Total number of employees permanently resident on the premises e.g. Hostels (allow 1 kilolitre/person/month)	
Total C	

EFFLUENT DISCHARGED			
Water entering premises	%	Water consumed on premises (not entering the wastewater disposal system)	%
From municipal sources		In boiler use	
From other sources		In evaporation	
Total entering premises	100	Leaving in product	
Total consumed on premises		In other use (e.g. recycling, cooling, gardening, domestic purposes)	
Effluent discharged		Total consumed on premises	

NOTE: A recent flow diagram must be supplied, as well as any other information as requested by the Municipality or its authorised agent.

6. PRE-TREATMENT OF EFFLUENT BEFORE DISCHARGE

(Insert sizes, capacities, etc. where pre-treatment is present. Place a cross where a particular unit does not exist.)

TYPE OF TREATMENT	UNIT	DISCHARGE POINTS			
		1	2	3	4
Screens (hand raked)	Area (m ²)				
Screens (mechanical)	Area (m ²)				
Comminutors					
Grit Tanks					
Grease/fat traps					
Sedimentation tanks	Area (m ²) Volume (m ³)				
Balancing/equalization tanks	Area (m ²) Volume (m ³)				
Biological processes Type:					
Chemical Processes Type:					

7. PHYSICAL AND CHEMICAL CHARACTERISTICS OF EFFLUENT

(Insert value or place a cross where absent)

	pH	Temp in °C	Conductivity in mS/m at 20 °C	Suspended Solids in mg/l	COD in mg/l	NH ₃ as N in mg/l	O-PO ₄ as P in mg/l
Maximum							
Minimum							
Average							

Concentration in mg/ℓ of the following:
(Insert maximum value or place a cross where absent)

Acidity (as CaCO ₃)		Mineral oils and grease	
Alkalinity (Total) (as CaCO ₃)		Ortho-Phosphate (O-PO ₄)	
Ammonia (NH ₃ -N)		Phenolic compounds	
Chemical Oxygen Demand (COD)		Sodium (Na)	
Chlorides (as Cl)		Sugars / Starch as glucose	
Dyes		Sulphates (as SO ₄)	
Fat, vegetable oil, etc.		Sulphides (as S)	
Fluoride compounds (as F)		Tar products and distillates	
Formaldehyde (as HCHO)		Total dissolved solids (TDS)	
Hydrogen cyanide (as HCN)		Volatile Solvents	

Concentration in mg/ℓ of the following:
(Insert maximum value or place a cross where absent)

Group 1 Metals		Group 2 Metals		Total Concentration	
Cadmium (as Cd)					
Chromium (as CrO ₃)		Lead (as Pb)		Group 1 Metals	
Cobalt (as Co)		Mercury (as Hg)		Group 2 Metals	
Copper (as Cu)					
Iron (as Fe)		Selenium (as Se)		Other Elements	
Manganese (as Mn)					
Nickel (as Ni)		Other elements			
Titanium (as Ti)		Arsenic (as As)			
Tungsten (as W)		Boron (as B)			
Zinc (as Zn)					

(Cross out which is not applicable)

Are Radioactive Wastes or Isotopes present in the effluent?	Yes	No
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8. FOR OFFICIAL USE

Permit Number		Issued by		Date	
Water allocation factor		Directorate Financial Services notified		Date	

MOGALE CITY LOCAL MUNICIPALITY

Conditions of Acceptance of Trade/Industrial Effluent

This application shall only be granted on the applicant's undertaking, as he or she is by virtue of his signature hereto appended deemed to do, to observe the following terms and conditions and any further special conditions, which the Municipality or its authorised agent may deem fit to impose in any particular case:

- i) a valid permit for discharge is held, and the conditions stated in the permit are obeyed;
- j) any special conditions requiring the pre-treatment of the effluent before discharge is obeyed, and the work is carried out to the satisfaction of the Municipality or its authorised agent;
- k) the conditions of the Drainage Regulations as noted in the National Building Regulations are obeyed;
- l) the applicant shall annex hereto descriptions and a statement of the dimensions of grease and oil traps, screens, dilution and neutralizing tanks and any other provisions made by him or her for the treatment of the trade/industrial effluent before it is discharged to the sewer;
- m) the applicant shall submit to the Municipality or its authorised agent if requested, plans showing the reticulation systems on the premises for water and trade effluent or industrial effluent;
- n) the applicant shall, in addition to complying with the provision of the Mogale City Water Services By-laws concerned with the protection of its employees, sewers and treatment plant from injury or damage, comply with any direction concerned with such protection given to him or her by the Municipality or its authorised agent verbally or in writing for the purpose of ensuring the applicant's compliance with the said By-laws;
- o) the applicant must provide a separate drainage installation from the domestic drainage installation for trade effluent or conveying industrial effluent and to discharge same into a sewer via a separate connection as directed by the Municipality or its authorised agent;
- p) the applicant shall notify the Municipality or its authorised agent, in writing, as soon as possible after he or she becomes aware of, or at least 14 days before anything is done to cause, any material alteration in the nature or quantity or discharge of the trade effluent or industrial effluent specified in this application or in any of the facts stated by him or her therein;
- q) similarly, the applicant shall immediately notify the Municipality or its authorised agent, in writing, if any change in the nature, quantity or rate of discharge of effluent occurs, or is proposed, and which would exceed any limits in the permit;
- r) the applicant agrees to provide a suitable sample point for his or her trade effluent or industrial effluent and manage the effluent in such a manner that at all times the samples taken thereof are an accurate representation of the strength and composition of the trade or industrial effluent; and
- s) the applicant shall within 30 days from the date of signature of this application, procure an accurately representative sample of not less than 5 litres of the effluent to be discharged, which shall be free of domestic sewage. One half of this sample shall be submitted to the Municipality or its authorised agent for analysis. In addition, a report must be submitted to the Municipality or its authorised agent of analysis of the other half of the same sample by an analyst appointed by the applicant at the owner's or occupier's expense: provided that in the case of a newly established industry the period specified in this rule may be extended by the Municipality or its authorised agent for a period not exceeding six months or such further extended periods as the Municipality or its authorised agent in its discretion may from time to time in writing permit.

The applicant hereby declares and warrants that the information given by him or her on this form or otherwise in connection with this application is to the best of his or her knowledge and belief in all respects correct; and the applicant agrees that the said information, being in all respects correct, shall form the basis on which the Municipality or its authorised agent grants this application.

I, (full name)

the undersigned, duly authorised to act on behalf of

to be known as the applicant, declare that the information given on this form is accurate to the best of my knowledge and accept that the said information may be used as basis for the issuing of a permit to discharge Trade/Industrial effluent into the Wastewater Disposal System.

DATE

SIGNATURE OF APPLICANT

Authority or Capacity of the applicant

Permission is hereby granted by me on behalf of the Municipality, I being duly thereunto authorised, for the discharge into the Municipality's wastewater disposal system in accordance with the Mogale City Water Services By-laws of trade effluent or industrial effluent as described in this form and in the circumstances therein set forth: provided that this permission shall be revocable by the Municipality or its authorised agent at any time at its absolute discretion on the expiry of reasonable notice in writing given by it to the applicant.

The said permission is given subject also to the following special conditions:

SIGNED By or on behalf of the
Manager: Water and Sanitation

SIGNATORY (full name)

CAPACITY

SIGNATURE OF SIGNATORY

DATE

ANNEXURE D: LIMITS AND MAXIMUM CONCENTRATION OF CERTAIN SUBSTANCES

Subject to the provisions of **Clause 81.1** the following limits will apply:

- a) the maximum concentration limits of substances contained in any sewage, trade effluent, industrial effluent or other liquid discharged to the sewer:

Parameters	Units	Max Standards
Alkalinity (TALK)***	mg/l CaCO ₃	2000
Cadmium (Cd)	mg/l Cd	5
Chemical Oxygen Demand (COD)	mg/l	5000
Chloride (Cl)	mg/l Cl	600
Chromium – total (Cr)	mg/l Cr	5
Cobalt (Co)	mg/l Co	5
Copper (Cu)	mg/l Cu	5
Cyanide – total (CN)	mg/l CN	20
Electrical Conductivity (EC)	mS/m	500
Iron (Fe)	mg/l Fe	5
Lead (Pb)	mg/l Pb	5
Magnesium (Mg)	mg/l Mg	5
Nickel (Ni)	mg/l Ni	5
Nitrogen – Ammonia (NH ₃ -N)	mg/l N	50
Oil & Grease	mg/l	2000
pH	-	6-10
Phenol	mg/l	1
Phosphate – Ortho (O-PO ₄)	mg/l P	10
Sodium (Na)	mg/l Na	400
Solids – Suspended (SS)	mg/l	1000
Solids – Total Dissolved (TDS)	mg/l	3250
Sulphate (SO ₄)	mg/l SO ₄	1800
Sulphates, hydro-sulphates and polysulphates (expressed as S)	mg/l	50
Total Metal (excluding sodium)	mg/l	20
Zinc (Zn)	mg/l Zn	5

b) Metals:

Group 1:

Metal	Expressed as
Cadmium	Cd
Chromium	Cr
Cobalt	Co
Copper	Cu
Iron	Fe
Manganese	Mn
Nickel	Ni
Silver	Ag
Tungsten	W
Titanium	Ti
Zinc	Zn

the total collective concentration of all metals in group 1 (expressed as indicated above) in any sample of the effluent, shall not exceed 20 mg/l, nor shall the concentration of any individual metal in a sample exceed 5 mg/l;

Group 2:

Metal	Expressed as
Lead	Pb
Mercury	Hg
Selenium	Se

The total collective concentration of all metals in group 2 (expressed as indicated above) in any sample of the effluent, shall not exceed 10 mg/l, nor shall the concentration of any individual metal in a sample exceed 5 mg/l;

c) Other elements:

Metal	Expressed as
Arsenic	As
Boron	B

the total collective concentration of all elements (expressed as indicated above) in any sample of the effluent, shall not exceed 20 mg/l; and

d) Radio active wastes or isotopes

such concentration as may be laid down by the Atomic Energy Board or any State Department provided that, notwithstanding the requirements set out in this **Clause d)**, the Municipality reserves the right to limit the total mass of any substance or impurity discharged per 24 hours into the sewers from any premises.

NOTE: The method of testing in order to ascertain the concentration of any substance here mentioned, shall be the test normally used by the Municipality or its authorised agent for these purposes. Any person discharging any substance referred to in this section shall ascertain the details of the appropriate test from the Municipality or its authorised agent.

ANNEXURE E: TARIFF STRUCTURE FOR TRADE / INDUSTRIAL EFFLUENT

Industrial Effluent Charge

According to Mogale City Water Services By-laws any charges payable in respect of a trade/industrial effluent shall be based on the following formula:

$$\frac{(R \times a)}{\Sigma a} + \frac{(S \times b)}{\Sigma b} + \frac{(T \times b)}{\Sigma b} + \frac{(X \times b)}{\Sigma b} + \frac{(Z \times b)}{\Sigma b} \times \frac{(\text{COD} - 600)}{\text{CODs}}$$

Where:

- R = capital cost of wastewater reticulation system
- S = capital cost of outfall sewers
- T = capital cost of wastewater treatment works
- X = overhead costs of the wastewater reticulation including 40% of the overhead costs of the wastewater treatment works and laboratory
- Z = overhead costs of the wastewater reticulation system including 60% of the overhead costs of wastewater treatment works and laboratory
- a = area (m²) of the specific premises
- Σa = total area served by the wastewater reticulation system
- b = effluent flow from premises
- Σb = total annual wastewater flow to the wastewater treatment works
- COD = the monthly arithmetical average of the Chemical Oxygen Demand of the effluent discharged from the specific premises measured in mg/ℓ
- CODs = average Chemical Oxygen Demand of the wastewater entering the wastewater treatment works measured in mg/ℓ