

28
AN ORDINANCE AMENDING ORDINANCE NO. 23 OF THE SANITARY SEWER SYSTEM, BY DELETING SECTION 4. OF ORDINANCE NO. 23 OF THE TOWN OF BEASLEY AND SUBSTITUTING THE FOLLOWING SECTION 4.

BE IT ORDAINED BY THE BOARD OF ALDERMEN OF THE TOWN OF BEASLEY, TEXAS:

That Ordinance No. 23 and Section 4 of the Town of Beasley is amended by deleting Section 4. and substituting:

SECTION 4. Rates for Sewer Service are based on water consumed as registered on each customer's meter. The following rates per month shall be the rates charged for Sanitary Sewer Service to water consumers within the corporate limits of the Town of Beasley.

For all service in excess of fifteen (15) days in each calendar month, a full monthly minimum charge plus usage shall apply. For fifteen (15) days or less in each calendar month a charge of fifty (50) percent of the minimum plus usage will be made.

In all cases where more than one living or business unit is supplied through one meter, a minimum charge will be made for each living unit or business unit supplied through such meter.

Minimum gallonage applies to each meter and not to the individual living or business unit.

The Town of Beasley Town Council will review debt service and user charges annually and revise them periodically by resolution, to reflect actual treatment works operation and maintenance costs.

1. COST RECOVERY SYSTEM:

A Farmers Home Administration loan has been secured by the Town of Beasley to pay the local share, \$125,000.00, of the project. The capital recovery costs, based on the 5%, 30 year loan will be adjusted yearly.

A_A = Annual Amount
 C_m = Cost per Month
 V_u = Total Customers
 T_x = Ad Valorem Tax Revenue

The capital recovery costs will be distributed to the customers on an equal basis and will constitute the "base charge", or minimum fee, of the charge schedule. The minimum monthly charge per customer will be:

Minimum Monthly Charge Per Customer = $A_A - T_x/12/V_u$

2. USER CHARGE SCHEDULE:

A. Normal Use:

In the Town of Beasley, since there is no industrial waste, as such, the pollutant concentration discharged by all users is approximately equal; therefore, the user charges for operation and maintenance (O & M) costs can be on a volume basis, in accordance with the following equation:

$$C_u = (C_t/V_t) \times (V_u)$$

where C_u = A user's charge for O & M per unit of time

C_t = Total O & M costs per unit of time

V_t = Total volume contribution from all users per unit of time

V_u = Volume contribution from a user per unit of time.

Above is the basic user charge schedule, applicable to users with normal domestic sewage of BOD and SS concentrations of 200 and 200, respectively.

B. Surcharge for Excessive Pollutant Concentrations:

In the event that pollutant concentrations from a user exceed the normal range of strength of normal domestic sewage as defined in the preceding article, the following surcharge will be levied and the surcharge be computed by the following formula:

$$C_s = [B_c(B) + S_c(S)] \times V_u$$

where C_s = Surcharge for sewage of excessive strength

B_c = O & M cost for treatment of a unit of BOD

B = Concentration of BOD from a user above the base level of 200 mg/l

S_c = O & M cost for treatment of a unit of suspended solids (SS)

S = Concentration of SS from a user above the base level of 200 mg/l

V_u = Volume contribution from a user per unit of time


O & M costs at Beasley are influenced by three basis elements:

- a. Volume
- b. BOD
- c. SS

Volume cost per user is automatically accounted for in the surcharge equation, by V_u ; therefore, the total O & M surcharge will be considered to be due to BOD or SS.

The importance of this ordinance creates an emergency and imperative public necessity that the rule requiring ordinances to be read at regular meeting be suspended, and this rule is hereby suspended, and this ordinance shall take effect and be in force from and after its adoption.

PASSED and APPROVED this 9th day of March, 1976.



Marvin Hartmann

Marvin Hartmann, Mayor

ATTEST:

Clinton Conrad

Clinton Conrad, City Secretary

EXAMPLES (Typical First Year)

1. CAPITAL COST RECOVERY:

$$Av - Tx/12/Vu =$$

$$\$7975.00 - \$4,100.00/12/130 = \$2.48 \text{ minimum monthly charge/customer}$$

2.

A. NORMAL USE CHARGE FOR O & M

$$\text{O \& M Costs/year} = \$7,916.00 \text{ or } \$659.67 \text{ per month}$$

130 users

$$Cu = (Ct/Vt) \times (Vu)$$

$$Cu = \$659.67/4060 \times 130 = \$0.00125 \text{ per gallon}$$

$$Cu = \$1.25 \text{ per thousand gallons}$$

WATER USED: IN GALLONS

2,000	=	\$2.48	+	\$ 2.50	=	\$ 4.98
4,000	=	2.48	+	6.00	=	8.48
8,000	=	2.48	+	10.00	=	12.48
10,000	=	2.48	+	12.50	=	14.98

B. SURCHARGE FOR O & M

$$\text{BOD COST} = 50\% \text{ of } \$7,916.00 = \$3,958.00/12 = \$329.83$$

$$\text{SS COST} = 50\% \text{ of } \$7,916.00 = \$3,958.00/12 = \$329.83$$

$$\text{TOTAL SEWAGE FLOW} = 4060 \times 130 = 527,800 \text{ Gal/month}$$
$$= 0.53 \text{ MG/ month}$$

UNIT COSTS:

$$Bc = 329.83/200 \times 0.53 = 3.11 \text{ per mg/l per MG/month}$$

$$Sc = 329.83/200 \times 0.53 = 3.11 \text{ per mg/l per MG/month}$$

PROPOSED SURCHARGE RATE:

$$Bc = \$3.11 \text{ per mg/l per MG per month}$$

$$Sc = \$3.11 \text{ per mg/l per MG per month}$$

EXAMPLE OF CALCULATION OF SURCHARGE

$V_u = 10,000 \text{ Gal/month} = 0.01 \text{ MG per month}$

$B_c = \$3.11 \text{ per mg/l per MG per month}$

$B = 100 \text{ mg/l excess (above 200 mg/l)}$

$S_c = 3.11 \text{ per mg/l per MG per month}$

$S = 0$

$C_s = (\$3.11 \times 100) + (\$3.11 \times 0) \times 0.01 = \3.11 per month