

found in it fully to justify my disgust at its then condition. Since that time, however, it has, I am informed, been but once emptied, and it is now in a not very inviting condition.

I have advocated, and still advocate a general filtration of the public water supply, and as the materials are at hand and not costly, I again urge this upon the attention of the citizens. The mode of filtration is simple, and only implies intelligence and labor. The most available filter is composed of

1. Fine sand, 2 ft. 6 in.
2. Coarse sand, 1 ft.
3. Shells, 6 in.
4. Fine gravel, 3 in.
5. Coarse gravel, 3 ft. 3 in.

These are best disposed in waves, and below the convex curve of each undulation is placed a porous earthenware pipe conveying the water into a reservoir, whence it is distributed. This filter will remove the whole of the suspended matter, three-fourths of the organic matter, and one-half of the mineral salts in solution, yielding a very pure and soft water. It would be necessary to have two or more sets of filters, and about once a week or once a fortnight throw one set out for cleansing, which may be done by simple washing, drying, and re-sifting of materials. The quantity filtered is about eight gallons per square foot of surface per hour. Filters of 270 square feet would yield about 1,700 gallons per hour per day. The cost of such filtration is about \$575 per annum per million gallons per diem.

The distribution in Montreal is excessive, amounting to sixty or seventy gallons per head per day, while Glasgow and Edinburgh supply thirty-five gallons; London, twenty-one to thirty-four, by various companies; and Liverpool has reduced its consumption from $33\frac{1}{2}$ to $19\frac{1}{2}$ per head. Now, as it is much cheaper to filter the water than to increase the supply, by preventing the large amount of waste now going on we might practically double the available supply and have an abundance of water at thirty gallons per head and the cost of filtration would be saved.

As a house filter I can cordially recommend that recently constructed by Messrs. Prowse Bros., of this city, which combines the advantages of the best known materials, simplicity of structure, readiness of cleansing, and consequently durability.

In conclusion I would urge upon the public to demand from the City Fathers water that *is water*, and *nothing but water*, on the above sanitary and economic grounds.