

tus be connected to these. The devices thus installed will be automatic in their action, and the application of a uniform quantity of the germicidal agent be insured. The entire sterilizing apparatus and recording devices from the venturi meters would be contained in a house perhaps twenty feet square. Provision should be made to heat this building so that temperature therein will not at any time fall below about 68 degrees Fahrenheit.

In selecting a site for the location of the chlorination plant, consideration should be given to the selection of a site which will best suit the requirements when a filtration plant is built, for the two should be together, and arranged so as to allow the entire purification process of filtration and sterilization to be carried through without pumping.

I have studied the various chlorinators offered on the market, chief among which for efficiency, reliability and cost may be mentioned the machines furnished by the Electric Bleaching Gas Company and the Wallace and Tiernan Company both of New York, and for reason detailed in the appendix of this report, I recommend the Wallace & Tiernan device as best suited for your needs.

CONCLUSIONS

To recapitulate, the water supply of the City of Quebec is normally colored, and possesses a noticeable turbidity which becomes very marked at times. Bacterially, it shows unmistakable signs of sewage contamination, and there is no sound reason why an outbreak of typhoid fever should not occur in Quebec at any time if a case of this disease should occur on the watershed.

To make the water supply of Quebec perfectly safe and aesthetically satisfactory at all times, filtration is the only