

Regarding the bacteriological examination of the water, no analyses were officially made till February 24th, and later dates when samples were sent to the Provincial Laboratory. It is true that some desultory testing was done in my laboratory by some of the senior students in the second week of February which showed the water to contain colon like bacilli. Owing however to the inexperience of those testing and perhaps also to the fixed desire of the city officials, not to find anything wrong with the water, these results were entirely passed over.

I append in Table V, Dr. Amyot's reports on the samples submitted to him. Only those samples which would throw light on the water actually furnished the city and the water at intake, are included in this table.

One notes at once in the examinations made in March that the pump house tap water was inferior bacteriologically to that of the intake water, a piece of evidence pointing strongly to a break in the water pipe. About the same time as the second series of the above examinations were started I was able to return partially to work and instituted analyses of the laboratory tap water. In Table VI I give the results contrasted with previous analyses made of the city supply.

It will be noted that my results in the main confirm those of Dr. Amyot and show that the city water was undoubtedly contaminated with sewage bacteria. The bacterial analyses made in 1902 were in marked contrast to those of March, 1903.

On receipt of Dr. Amyot's reports and of the interpretation of them by Prof. Goodwin and myself, the waterworks committee examined the water pipe. At a point about 1300 feet out from shore near the point B in the map, a decided break was found in the pipe. The pipe at this point lies along the lake floor and had been caught by an anchor in October, 1902. After the failure of the ship's crew to raise it after repeated attempts, the cable was cut and the anchor left on pipe, the city authorities paying the vessel owners \$35.00 therefor. No examination was made of the pipe to see what damage was done at the time and the result was an epidemic of typhoid and typho-coloid fever which cost the citizens many thousand dollars and the