

## The Way to Supply Rochester with Water from Lake Ontario.

EDS. U. & A.: A good plan to bring water from Lake Ontario to Rochester is as follows: Lay an iron pipe or make a canal or conduit of stone, like a sewer, in water lime, or cement, so as to be water tight, along the river's edge from the Lower Falls to the Lake. This conduit to be covered beyond the reach of frost. This pipe could run along the Lake shore westward, to a point beyond the reach of the water from the river, and then into the Lake far enough to get pure water. On the high bank of the Lake west of the road from Charlotte an iron stand pipe could be erected. Into this the water could be forced by a steam engine and high enough so that gravity would force it up the conduit to the Lower Falls. A small engine would do this work, for the water would only be raised thirty feet. It would be best to have two engines, either of which would afford the power, and that if one was disabled the other could be used. These engines would cost no more than \$8,000.

At the Lower Falls large water wheels would be constructed to be driven by water from the river. These wheels would drive large pumps by which the water would be lifted to a stand-pipe high enough to force it to all parts of the city where it is required for fire or other purposes. There is plenty of water in the river at all seasons to drive these pumps. If stone for the conduit is preferred there is abundance of stone all along the river bank of which to construct it. The conduit would not be laid deep and the water in the river would not disturb the work of building.

I do not intend to make a tunnel under the Lake, but would make a coffer dam, dig a trench in the Lake bottom, lay an iron pipe and bury it. A crib at the end of the pipe in the Lake would prevent anything but water from entering. It seems to me that this is the true plan to secure pure water and an abundance for all time, at a small expense. The cost of running the works will not be more than ten thousand dollars per year. The city promised to pay the old company \$20,000 per year for water for public purposes. The city should construct these works and own them. The stock would be equal in value to gas stock. There is not the slightest hope of getting water from Hemlock Lake through wooden tubes for they have been tested and will not stand the pressure. It is folly to go thirty miles for water when that which is as good can be had in a fourth the distance.

Let the people take hold of this project and have the works constructed and owned by the city and not let a ring have the profits of the work.

J. H. W.