

The New Water Works.

From the Argus.

The time fixed for supplying the city with pure and wholesome water, from the springs and streams north-west of the city, through the new water works, which for two years past have been in progress of construction, is near at hand. Saturday last was set apart by the Chief Engineer, Mr. McALPINE, and others connected with this great work, as a day to make the first trial of the conduit which connects the retentive reservoir with the supply pipes, and in accordance with previous arrangement, and in the presence of Mayor PERRY, the Common Council, the Water Commissioners, ROBERT BOYD, LEMUEL STEELE, Prof. PERKINS, and many other citizens, the gate was raised, and the water permitted to flow in its new channel.

The distance of the retentive reservoir from the city is some five miles, and the conduit leading to the other reservoirs is completed, with the exception of about half a mile. At this break, the water passed out of the conduit into a temporary channel. The water was let in gradually, and coursed its way through the 5,700 feet in about 40 minutes. The conduit is three feet wide by four high built of masonry, oval or egg form, and is capable of discharging 6,000,000 gallons in 24 hours. The retentive reservoir covers a surface of 30 acres, and it is estimated it will contain 129,000,000 gallons. The gates being raised the water passed through to the gate chamber, where the arrangement is perfect for either cutting off the city supply and turning the water, as heretofore, down the creek, or *vice versa*.

The trial proved eminently satisfactory, and there was but one opinion of the stability of the structures, their adaption to the intended purpose, and the skill and expedition with which they had been carried forward.

The work on the main conduit is in such a state as to warrant the expectation that it will be completed in the course of three weeks—when the water will have a clear flow through the city, as far as the pipes are laid.

It was at the upper reservoir, or lake, where this experiment was made. The embankments are not yet fully completed, but will be by the time the Conduit line is entirely closed—about half a mile of which, through a section of quick sand, involving immense labor, is yet to be built.

The Bleecker Reservoir, which will receive its supply from the Rensselaer lake, is nearly completed. But it will not be used for several months. Meanwhile, the water will pass directly into the supply pipes from the Conduit—the pipes being carried round the reservoir for that purpose.

The lower Reservoir is already in use, supplying the Pipes which lead through that part of the city lying below Pearl street.

It is confidently expected that water will be let in to all the Pipes before the close of the present month. The work has been prosecuted with great energy, and the completion of the great enterprise will be hailed with joy by our citizens.