to all.

Water Supply.

THE SPRING VALLEY WATER WORKS draw their principal supply at present from the Pe sula, where they control the water-shed of thirty-nine square miles, which supplies their tistorage reservoirs, namely: the Pilarcitos, the San Andreas, and the Crystal Springs. The are located at a sufficiently high altitude to supply all parts of the city by gravitation. are located at a sufficiently high altitude to supply all parts of the city by gravitation. There reservoirs together have a storage capacity of over fifteen thousand million gallons. They and will be increased to forty-six thousand million gallons, by building the lower Crystal Spr dam. The water from these reservoirs is conducted, by means of two thirty-inch plate-iron pi into the Lake Honda and the College Hill reservoirs, respectively. The former holdsthirty-t million gallons, and the latter fifteen million gallons. These two reservoirs again feed the million gallons, and the latter fifteen million gallons. These two reservoirs again feed the smaller distributing reservoirs in San Francisco, viz: Market Street, Russian Hill, Viz: Ma The water from these distributing reservoirs is furnished to the inh sixty million gallons. tants of San Francisco through a system of cast-iron pipes, laid in the streets, nearly hundred and seventy miles in length, varying in diameter from twenty-two inches to three inc The Company also obtain from Lobos Creek, by means of an aqueduct and pumping work Black Point, two million gallons daily. It owns additional water rights relating to the c streams above and below Spanishtown, which will enable it to utilize a water-shed of s square miles. It has also acquired Calaveras Valley, which controls two hundred and square miles of water-shed, and is the next nearest source of supply to San Francisco that ex It has facilities readily adapting it to the construction of reservoirs that will contain f thousand million gallons. From these Calaveras reservoirs the water will be conducted by aqueduct, consisting of two miles of tunnel, twenty-two miles of pipe, and about twenty-four n of open aqueduct, to Crystal Springs and San Andreas Reservoirs; independent pipe lines convey the water from there to the city reservoirs. When the entire works are developed proposed, the Spring Valley Water Works will have a storage capacity aggregating eighty thousand million gallons, and fed from a total water-shed of about three hundred and tifty sq miles; all of which, when developed, will give an average yield of more than two hundred lion gallons daily—which, according to the amount consumed in Liverpool, England, viz: f teen and one-half gallons per capita, will be enough to supply near fourteen million inhabita The Company is also prepared, in case of any exigency requiring additional supplies, to prepared. water from Lake Merced to the extent of five million gallons per day.

Exhaustive surveys, looking to the building of water works to be owned by the city, by onel Mendell, of the United States Engineer Corps, under the direction of the Board of W. Commissioners created by the act of the Legislature of 1876, were made in 1876 and 18 Some mine different schemes were presented as the result, but the City and County Attor giving an opinion against the power of the city to contract outside of the Peninsula, all fur proceedings looking to the erection of new works were abandoned and overtures were made

the purchase of the Spring Valley system.

Finding it impossible to agree upon a price, the Commissioners made a formal condemna of the Spring Valley Works, and appointed Messrs. James R. Kelly, Patrick Crowley, and J. L. Meares as a Board of Arbitration, to assess and award damages for the property condemnates of the prope

J. L. Meares as a Board of Arbitration, to assess and award damages for the property condems. Pending their action, a bill was introduced and passed through the lower House' of the I islature of 1878, authorizing the purchase of the Spring Valley Works by the city, the price fi in the bill being \$15,500,000. The manifest injustice of these figures, so utterly beyond the value of the property in question, awakened such a storm of indignation and brought forth vehement a protest from the people of the city, that the bill never was pressed to a pass. Since that time no further steps in the matter of the arbitration have been taken. A very geral sentiment is, however, gradually manifesting itself in the community looking to establishment of a right on the part of the city over the rates as well as property of water of panies.

## Public Libraries.

The Mechanics' Institute contains thirty-three thousand volumes, of which about fifthundred were added during the past year. This Library is the official depository of the Rep of the Patent Office at Washington; it also possesses the English Patent Reports, some thousand volumes, which were presented by the British Government, and is the only set this Coast. It occupies a three-story brick building, owned by the Institute, on the south of Post Street, between Montgomery and Kearny. The Mechanics' Industrial fairs are under the auspices of the Mechanics' Institute for the benefit of this Library. The Thirtze Industrial Fair was opened August 13, 1878, and continued for a period of thirty-two de Expenditures, \$20,904.24. The receipts: From admissions, \$37,289.65; privileges, \$3,855 total \$41,145.55—gain \$20,241.31.

The building occupied by the Institute is valued at \$135,000, books and fixtures \$48, The ground floor is used for stores; first floor for general library and reading-room; see floor, reading-rooms for newspapers, periodicals, etc., and chess rooms. This Library is

BEAMISH, Shirt Manufacturer, Nucleus Building, Market, cor. Third.

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