

(Continued from the First Page)

Discussing possible development of a new water supply, the commission reported that it was "not prepared at this time to recommend the inclusion of such a project in the public-improvement program." The commission explained that the Mayor intends to name a commission to make a thorough survey of sites and previous recommendations concerning new sources of water.

Extent of Lag Uncertain
"Immediately after the end of the war there probably will be a serious unemployment problem or lag until the industry can be converted to peacetime production," the commission said. "How extensive such unemployment will be and how long it will continue, cannot be predicted with certainty. However, it is not to be denied that a substantial amount of employment will have to be provided, at least temporarily."

"One of the quickest ways to provide employment is the construction of public works. Expenditures for labor on the site of the high two-thirds of the cost, and analysis of the cost of materials has shown that at \$90 per cubic yard, the cost ultimately for labor. Both skilled and unskilled workers are required."

The report continues: "Among recommended projects are: water treatment, waterworks, rehabilitation and City State high ways have been given priority. Plans and specifications are completed or in preparation. Estimated to cost \$23,800,000."

"Work could proceed immediately on the rehabilitation of highways provide an estimated 5,700,000 man-hours of labor. Additional plans are completed or in preparation. Estimated to cost \$23,800,000."

"There are, in addition, a considerable number of recommended projects for which the financing has not been arranged but for which plans and specifications are completed or could be completed within six months. Included in these projects are flood relief, additional drainage, reconstruction of highway bridges, projects related to railroad terminal improvements, grade reconstruction, reconstruction and repaving, elimination of dead ends in the water distribution system, reconstruction of water mains and other miscellaneous improvements."

"Approximately \$18,500,000 of such work as is now ready to start and would furnish 4,052,000 man-hours of employment. An additional amount of similar projects could be ready within six months, and would provide 5,712,000 man-hours of employment."

"Projects for repairs, replacements and minor construction are being completed or are being planned. The program and the City Planning Commission recommends that it be completed as rapidly as possible. Since financing of the project already has been arranged, there is no delay due to lack of funds."

should be no delay due to lack of funds. The report stated: "A far-reaching program for improvement of city streets and highways has been proposed for the immediate post-war period, when the city will be in a position to motor-vehicle production and gas consumption will make quite better thoroughfares."

"In the light of subsequent developments, certain changes in the program are being studied, and studies preliminary to negotiations for necessary revision of the agreement are now under way."

"It is estimated that the city projects still to be completed under the new program will cost not less than \$36,807,000, of which approximately two-thirds will be required for completion of the Market Street Subway extension and the balance for highway and bridge construction."

Concerning the proposed tunnel, the report had this to say: "An important consideration in planning for the Market Street Subway extension, as a whole, is the provision of adequate transportation across the Delaware River."

The commission reported that the total length of the highway recommended for improvement is about 35 miles. Two of the most urgently needed projects among the many included in the program, are provision of adequate approaches to the Philadelphia Municipal Airport, which is to be expanded by the construction of the low-gradient-inland highway entering the city from the northeast.

Market St. Subway Extension
"Most important of the high-speed transportation proposals, because of its strategic relationship to the future development of the central city area, is completion of the Market Street Subway extension from west of 20th st. to near 22d st."

"This section from 24th st. to 22d st., including the tunnel under the Schuylkill River, already has been planned and construction of the entire line, ready for operation, is estimated to cost \$24,490,000."

After discussing a \$18,510,000 project for completing the concourse under and around City Hall and a \$210,000 project for purchase and installation of sump pumps for the North Broad Street Subway.

"The largest area requiring new or additional transit facilities is in the downtown district. However, the provision of new facilities in this section must be co-ordinated with general city development programs. The N. E. Airport Work \$2,415,000."

"For the improvement of the Municipal Airport, the construction of a new terminal building and other facilities was proposed at an estimated \$3,275,000, including the lease of additional land imposed upon it by the increase in population and the intensified industrial activity around it."

"The waterworks rehabilitation project has been included in the program and the City Planning Commission recommends that it be completed as rapidly as possible. Since financing of the project already has been arranged, there is no delay due to lack of funds."

It discussed accomplishments in 1925 which included the Pennsylvania and Baltimore & Ohio railroads were parties, and the remaining steps that were called for in the program for the construction of Pennsylvania Boulevard on the line of Filbert st. and the widening of the Market Street between Market and Cuthbert sts."

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Ben Franklin Knew City's Need of Better Water; Made Provision in Will, but Estate Lacked Cash

BY LEEDS MORELLEY

Benjamin Franklin, who pioneered in a, many assorted fields of activity, was one of the first to recognize that Philadelphia's drinking water was bad.

When the public-spirited High st. printer drew up his will in 1789, he included a bequest of \$10,000 for damming the Wissahickon as a new source of supply and outlining a plan for piping it into the city by gravity flow.

Unfortunately, his far-sighted benefaction turned out to be only a gesture. When he died the following year his estate was so shrunken there was no money to carry out the bequest.

But most of Franklin's contemporaries were unperturbed. To them that came that the clear, cold water that now flows through the city's pipes, contaminated seemed ridiculous—until a series of epidemics struck the city.

First Waterworks Built
By 1797 there was so much reversal of feeling that City Councils, spurred by petitions signed by an unprecedented number of respectable citizens," engaged Benjamin Henry Latrobe, an outstanding engineer of that day, to study the practicability of obtaining a water supply within a reasonable distance of the city.

The result was the erection of the city's first waterworks—a pumping plant and a steam engine at Chesnut st., which pumped water to a "receiving tank" at the foot of Independence Square—the present site of City Hall.

The building, because of its circular form, was known familiarly as the Pepper mill. A steam engine, made mostly of wood, pumped the water into huge wooden tanks at the top of the hill, from there it flowed by gravity through the city mains.

Finished in 1801
The waterworks, ultra-modern in its day, for all its crudity by present standards, was completed in 1801. It might be said to have fished some but for one unhappy mishap.

It was the illness of Nicholas J. Roosevelt, of Passaic, N. J., the engineer who built the steam pumps and the receiving fountain which collapsed, the water spouting from the fountain. Franklin D. Roosevelt, who was to describe the Philadelphia water situation 140 years later as "a stench in the nostrils."

Nicholas Roosevelt got sick from drinking Philadelphia water.

Drank Well-Water
In the interests of historical accuracy it must be emphasized that the position that so upset Nicholas Roosevelt was not the Schuylkill cocktail that we know now, but the "good" well-water from which the city depended before the waterworks was built.

Today our city is polluted by the sewage discharged into them—by us and by the municipalities upstream. In 1800 there were no sewers; the walls were polluted by the underground drainage of privy vaults but the Schuylkill was clear and pure.

It is hard to look at the foul, ill-smelling water which flows through its still-clogged channels through its still-clogged channels that we know, and realize that the "good" well-water was what prompted William Penn to locate his "City of Brotherly Love" here.

Considered Other Site
Penn had just about made up his mind to lay out his city farther downstream on the Delaware, where Chester now stands, but the Commission hastened to declare the Schuylkill could be properly guarded from pollution.

So Philadelphia continued to drink the water which was so polluted sources. And it paid the price in sickness and death, with the loss of many lives.

However unpleasant today's "chlorine cocktail" may taste—changed his plan and located his city at that point. And when the city, a century or so later, turned to the "Hidden River" for its drinking water, the stream was still so clean and pure that the water could be piped directly into homes, without filtering or medication.

Didn't Stay Pure
But it did not remain that way. For while pollution was no problem in the oxygen normally contained in the water, it became a substantial amount of pollution many years ago.

The plan of City Council to fix flat rates for sewer service to fund the construction of sanitary disposal plants in the city was blocked by two sanitation experts.

The proposal, which calls for an expenditure of \$48,000,000 to "rectify and improve the service of the Philadelphia water supply," is being opposed by John J. Gericke, of 2337 S. 16th st., a Federal employe, the Philadelphia Real Estate Association, United Business Men's Association, neighborhood and other real estate groups.

The Schuylkill began to raise the specter of that threat that the privy vaults have presented in the days of the wells.

By 1828 the threat was so severe and the Legislature passed the first of a long—but impotent—series of laws intended to safeguard the purity of the Schuylkill. More followed in 1832, 1860, 1861, 1867 and 1871. In 1836 Fairmount was created.

Delaware Polluted Too
Meanwhile, the city had started drawing water from the Delaware to augment the pumpage from the Schuylkill and the Delaware was becoming polluted, too. By 1866 there was "so much objectionable matter" being drained into both rivers that H. P. M. Bigkinbine, who was chief engineer of the Water Department at the time, recommended an entirely new source of supply on the Perkiomen near Ziegler's Ford.

But Council could not silence the typhoid statistics. And in 1902 the city began construction of treatment works. The job was finished in 1913, but even before that it had reduced typhoid to less than 50 percent. And in 1914, the first year of complete eradication, there were 100 typhoid deaths—or "3.5 per cent" of population.

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ards set by the United States Public Health Service.

Philadelphia's city had only four typhoid deaths—a rate of 0.2 per 100,000 of population—and the typhoid cases were traced to human carriers. But in the 1880's and 1890's the typhoid rate was as high as 79.2 per 100,000, and the raw, untreated water was chiefly responsible.

The peak was in 1888, when an epidemic of the disease killed off 783 persons out of a total population of 1,036,000. The following year was almost as bad, with 736 deaths.

The typhoid rate tapered off then, dropping to a "low" of 370 deaths (22.7 per 100,000) in 1898. Then it rose to a new high of 947 deaths in 1899, but because the population was up to 1,278,000, then the rate was only 74.9. That it was proportionately less severe than the 1878 outbreak is then the rate was only 74.9. That it was proportionately less severe than the 1878 outbreak is then the rate was only 74.9.

The furor over the polluted condition of the rivers became so great that Council felt impelled to adopt a resolution instructing the Water Department at the time to make a complete report on the situation—because it was "giving the city a bad name!"

New Source
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SEWER RENT PLAN RECORDED

Engineers Testify City's Proposal Is 'Fair and Reasonable'

Read editorial, "Time to End City Version of the Farmer's Wife."

Two engineering experts defended yesterday as 'fair and reasonable' the sewer disposal proposal being pushed by the city to finance its \$42,000,000 sewerage-disposal project.

"Universal assessment of the rates is not essential," said Mr. Jacobs, said that while some of the University of Pennsylvania (testified) no fair rental could be charged for the sewerage disposal project, he said that the rates are not one-half the city's \$60,000,000 sewerage disposal project.

"The experts testifying for the city in answer to a taxpayer's suit to halt the levy were Nathan B. Jacobs, of Pittsburgh, consulting engineer to the Philadelphia Department of Public Works, and Samuel A. Greeley, Chicago hydraulic and sanitary engineer. The rates, which would range from 50 to 100 percent of the present sewerage disposal rates, are discriminatory but Judge Greer, F. Flood in Common Pleas Court has ruled in favor of the city.

John J. Gericke, an seven real estate and other organizations. Defendants are the Delaware and Schuylkill rivers, might be started next year despite the year.

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