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Philadelphia, January 20, 1928.

ANNUAL REPORT - 1927

The Bureau of Water has registered an impressive smount of work in the extension and improvement of water service and has provided additional security for the maintenance of the water supply at the initial stations and the purification plants. A waste water survey with activities centered generally in West Philadelphia has been of value in uncovering heavy underground leakage on the distribution systes. Discoveries classhere in the southern section of the city between the Delaware and Schuylkill Bivers have added to the water saving in material volume.

An average of 345 m.g. per day has been supplied to the City from the filter stations which equals, on a per capita basis, 168 gallons per day.

The quality supplied to the consumer has been of a safe character, assumption of which is confirmed by the typhoid statistics which register 1.42 deaths per 100,000 inhabitants.

Reference to the activities confined in a general way to the various branches of the Eureeu is listed.

River Petrol

Continued scrutiny has been directed upon the water of the Schuylkill and Delaware Rivers and their tributary streams, into which may be contributed the drainage of industrial plants.

Pumping Stations

At Shewmont work on interior of engine room has included a new floor, roof and well painting. Revolving screens with house enclosure have been added for protection of intake, and for the heating of station an oil plant was planned and is in operation.

At Torresdele the erection of six (6) main pumping units and filter wash water pumps have been completed with an adjustment of electrical connections. An oil heating plant is under construction and a floor has been placed with interior painting of walls and roof. 141

At Queen Lone the installation of a new boiler has been completed and new stoker engines planned with setting begun.

At Lardner's Point basement floor in engine room have received attention and extensive repair work has been accomplished on the baffling of boilers and correction of stoker operation. Installation of generators and attendent wiring have added to the improvement of plant operation.

The High Service Stations at Torresdale, Oak Lone, Roxborough and Queen Lone, are functioning under completed construction.

At Chestnut Hill and Belmont additional units have added to the capacity for high service and at the latter construction activities will carry into the coming year.

Filters.

At Torresdale final filters the routine operation was augmented by activities on deep cleaning of beds. At the preliminary plant the rehabilitation progressed to a stage of 95 per cent. completion. The wash water tower was encased by a new brick shell.

At Queen Lame the cleaning and restoring of filtering material on the preliminary beds was accomplished and a contract let for similar work on the mechanical units. Machines were added to the chemical equipment to provide a pre-oblorinating dose to water passing to the mechanical units. At Belmont the superstructure on the mechanical plant was erocted and a contract executed for the furnishing and placing of gravel and sand.

The send washing has been accomplished in a satisfying manner with the support of the Blaisdell machine equipment and the operation of beds has delivered a water of sufficient quantity and gratifying quality.

The loads imposed upon the filter plants are materially lessened by the application of a congulant, the use of which during the latter part of the year, was in unusual demand on the Schuylkill due to the continued high content of suspended matter.

Distribution

Building operation on an extensive scale has required the laying of many service mains. Next Philadelphia has offered a field for the addition of large mains and connecting links for an improved pressure and volume for service. The subway construction on South Broad street required an adjustment of the pipe system and new mains were laid to clear Broad st. for tuncel construction.

The water waste survey corrected considerable underground lookage and attention was directed by operating forces towards large valve repairs in cross-connecting underground chambers. A new roof was built on one valve chamber to provide additional access.

Added to the piping system during the year were 60 miles of new mains ranging from 48 to 6 inch in size, giving a total of 2,817 miles now in service. This total includes an 8" extension of 1,250 feet for the High Pressure Fire System.

Meters.

The total setered services number 186,555 there being added 15,545 meters during the year.

Repairs were made to 13,460 motors at the City Shop and 5,996 on the premises of the consumer.

Revonue

There has been returned \$7,070,452.17 contributed from the following sources:-

Water Rents:-

Flat rates -

Fixtures

Current

\$2,905,115.69

" delinevent

205,458,12

\$3,110,555.91

Meter rates -

Delincoent

Frontage - water pipe

Heter searches

Specials

New services

Noter repairs

Hiscellaneous

\$8,254,921.54

225,837.56

\$3,480,259.10

5,788.50 286,498.40 9,897.44

\$8,275,50

55,275,30

63,914,12

479,689,26

\$7,070,452.17

Financial

Selary and wages

Natorial and equipment

Additions and betterments

Grand Total

\$1,737,168.44 <u>1,639,934.65</u> \$3,376,997.09

1.878.877.15

\$5,255,874.24

Construction Nork

Stations:-

Torresdale - Completion of motor drive pump installation. Construction of new floor and the painting of interior of engine room. Installation started on oil heating system.

Lardner's

Point - Baffle replacement in boiler plant; replacement of basement floor started in Engine House No. 2. Extensive repairs made on pump and discharge connections.

- Queen Lane Completion of boiler installation; placement of motor drives for stokers.
- Belmont Installation of feed pumps.
- Shawsont Placement of station floor; installation of oil heating system; building house enclosure over intake screens.

High Services-

Filteret-

	Chestaut Hill	*	Installation of additional pumps and piping with attendent electrical equipment.
	Bolmont		Installation of additional pumps and piping.
	Cucon Lene	-	Completion of pupp installation and electrical equipment.
*			
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Torresdale - Activities approaching completion on pre-filters. Erection of brick enclosure on each ester tower.

Belmont - Continued construction on mechanical plant,

Queen Lene - Erection of additional chesical apparatus; completion of the reveaping of preliminary filters. Pipe Linest-

- 48" steel main from George's Hill to Belmont and Westminster Aves.
- 48" cast iron main on Juniper street and 48" and 36" steel mains on S. Penn Square in connection with the Broad st. Subway.
- V 36° cast iron main on Woodland avenue from 65th to 68th sts.
- 1,50" cast iron main on 58th street from Woodland to Gibson aves.
- √30" cast iron main on Gibson avenue from 58th to 65th sts.
- 24" cast iron main from Belmont and Westminster aves. to 32nd and Spring Garden streets by way of Ludlow street.
- 24" cast iron main on 65th street from Gibson to Buist eves. 24" pumping main from Belmont High Service to existing main on Belmont avenue.
- /16* cast iron main on Elawood evenue from 65th to 98th sts.
 8* High Pressure Fire Service on Servive street from Susquehanna to Hegert st.

13.

Reservoirst-

Oak Lones- Construction of retaining well and sidewalk.

Contemplated Bork - 1928.

The coming year should include activities in general as follows:-

Stations:-

Terresdale - Installation of pumps

Lardner's Point - Station roof and floor construction. Belmont - Installation of pumps and attendant work. Dredging of Schuylkill river intake. Shawmont - Dredging of Schuylkill River intake.

Filterst-

Torresdale - Improvement of filters with send restoration.

Belment - Construction towards completion of sechenical plant.

Queen Lane - Waterproofing of filter floors.

Distribution:-

Pumping main from Torresdale. Service mains general Nater weste surveys.