

CITY OF READING SEWER SYSTEM IMPROVEMENTS



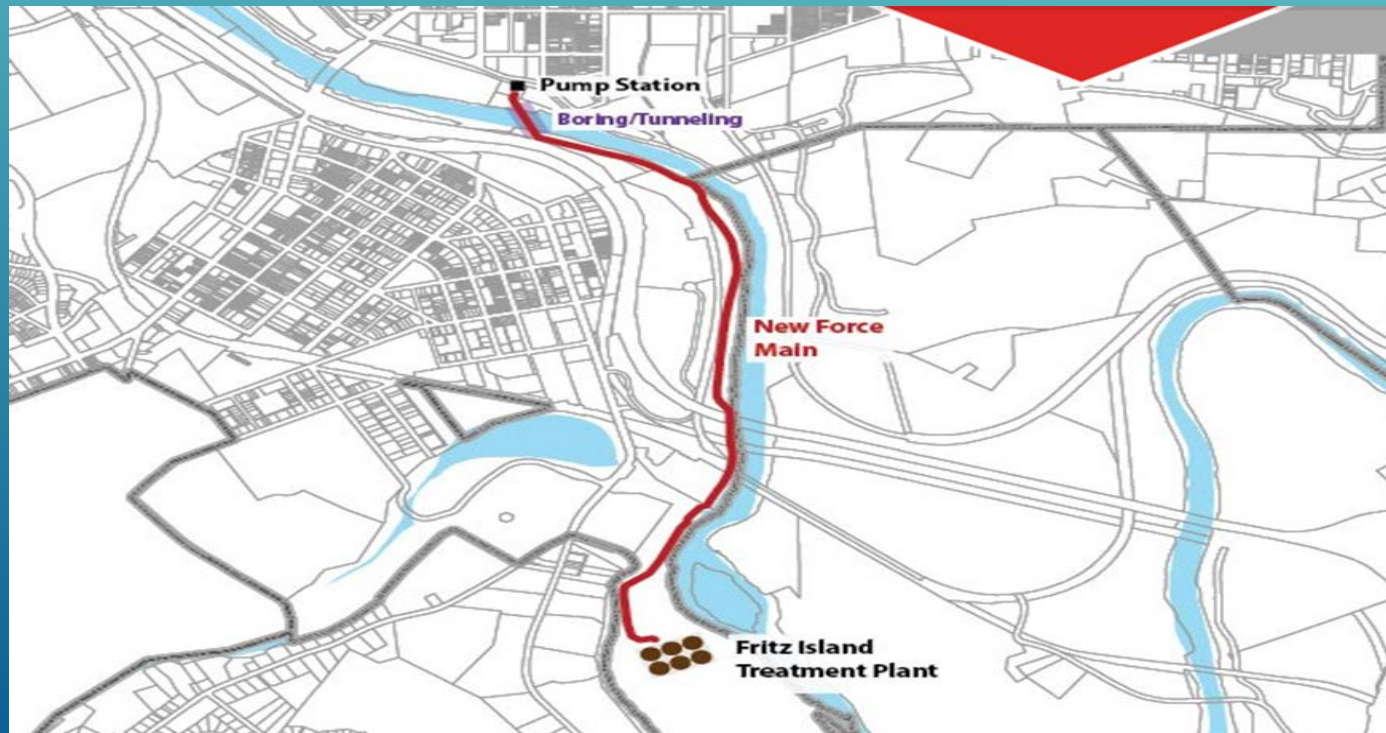
SYSTEM PROBLEMS

- ▶ Aging Infrastructure
- ▶ Sewage discharging into Schuylkill River
- ▶ Not meeting Effluent Limits
- ▶ Hydraulically overloaded during wet weather
- ▶ Federal consent decree
- ▶ FUNDING???



2009 PENNVEST APPROVED \$8,448,134 LOAN

- ▶ Partners
 - ▶ \$5,000,000 from DCED's H2O program
 - ▶ \$1,034,500 from Reading Sewer Fund
- ▶ Project
 - ▶ Replace nearly 50 year old force main with 7000 feet of 42 inch iron ductile force main from 6th & Canal to Treatment plant



FORCE MAIN IMPROVEMENTS COMPLETED

JUNE 2014



Liquids project - \$108,161,309 loan 20 years 1.000%

\$84,586,036 approved April 2015

\$23,575,275 approved 2016

- ▶ Project includes:
- ▶ Construction of a primary clarifier distribution structure, rehabilitate primary clarifiers, replace a trickling filter treatment system with 4 new biological reactors, new blower building and blowers, new final clarifier distribution structure, 4 new final clarifiers, new pumping station, conversion of aeration tanks to chlorine contact/post aeration tanks, chlorination and de-chlorination facilities and new effluent structure.



A PICTURE IS WORD A THOUSAND WORDS...



SOLIDS PROJECT - \$40,747,008 LOAN 20 YEARS 1.000%
\$37,214,485 APPROVED JULY 2015
\$3,532,523 APPROVED 2016

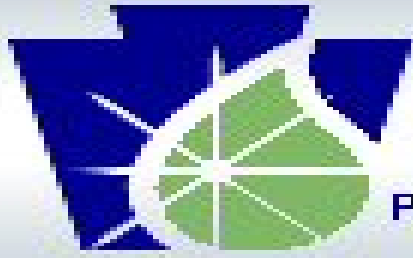
- ▶ **Project Includes:**
- ▶ Construction of a new blend tank, primary sludge pumps, digester covers and mixing systems, transfer pumps, heaters and building, digested sludge holding tank, two centrifuges, sampling system and membrane roof. Rehabilitate the gravity belt thickener, scum concentrator, freight elevator, odor control system and improvements to five digesters and sewer buildings.



LIQUIDS AND SOLIDS PROJECT

- ▶ Settlement on funds expected January 18, 2017
- ▶ General Construction commencing under a Letter of No Prejudice late 2016.





PENNVEST

PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY

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