Water /Sewer Systems Concession Lease Update

Presented by:

City of Allentown

Office of Compliance

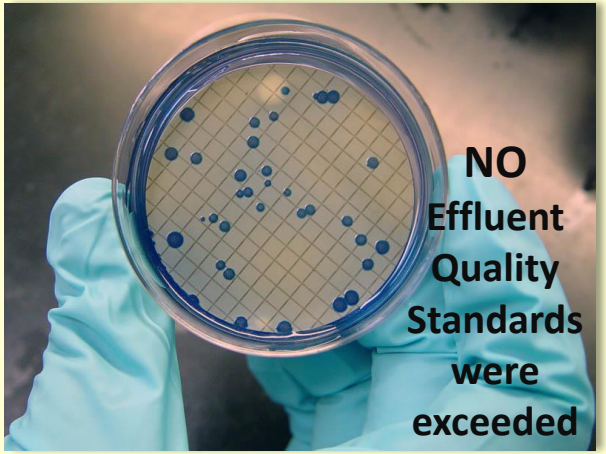
Department of Public Works

610-437-7587

December 19, 2018

Wastewater Treatment Plant

		Performance Standards	NPDES Discharge Permit Effluent Limitations		
Parameter	**LCA**	**Monthly Average Effluent Concentration**	**Monthly Average Effluent Limit**	**Weekly Average Effluent Limit**	**Instantaneous (Daily) Maximum Effluent Limit**
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	Met Requirement	≤ 12 mg/L	20 mg/L	30 mg/L	40 mg/L
CBOD5 Percent Removal	Met Requirement	≥ 90 %	≥90 %	---	---
Total Suspended Solids (TSS)	Met Requirement	≤12 mg/L	30 mg/L	45 mg/L	60 mg/L
TSS Percent Removal	Met Requirement	≥90 %	≥90 %	---	---
Ammonia Nitrogen (NH_3-N) May 1 to October 31	Met Requirement	≤4.0 mg/L	5 mg/L	---	10 mg/L
Ammonia Nitrogen November 1 to April 30	Met Requirement	≤12.4 mg/L	15 mg/L	---	30 mg/L
Fecal Coliform May 1 to September 31	Met Requirement	200/100 ml geometric mean			
Fecal Coliform October 1 to April 30	Met Requirement	2,000/100 ml geometric mean			
Residual Chlorine	Met Requirement	≤0.5 mg/L			
pH	Met Requirement	6.0 to 9.0 SU			
Dissolved Oxygen	Met Requirement	5.0 mg/L minimum			



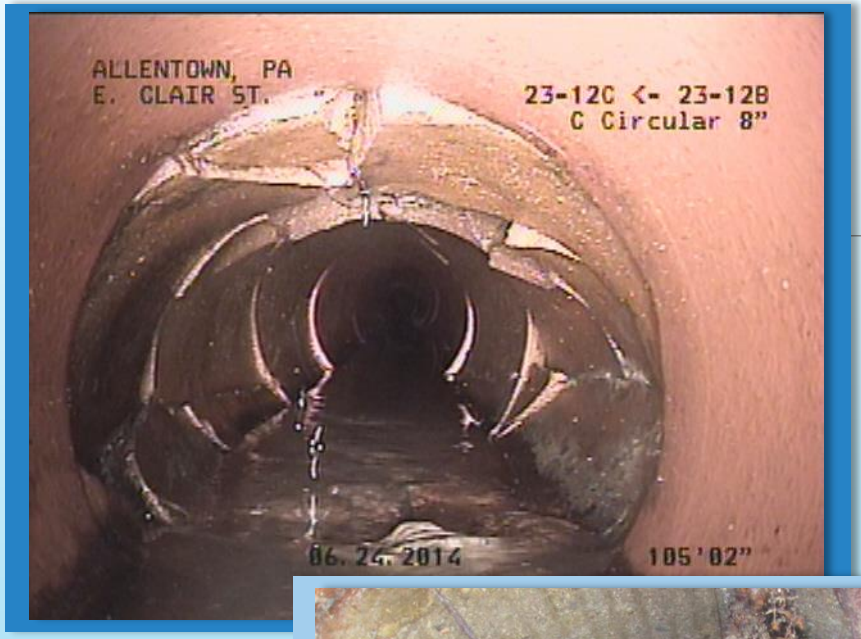
Wastewater Treatment Plant

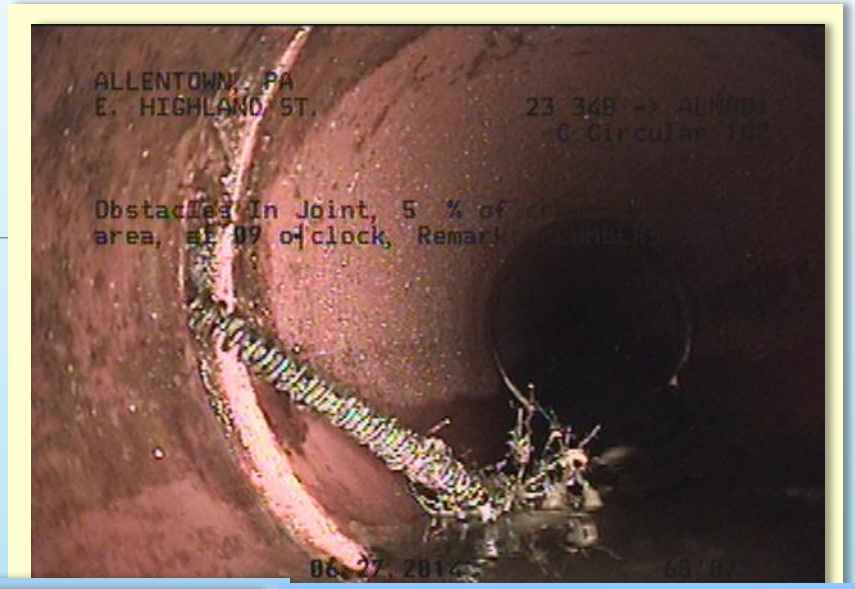
pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In November 2016, comments to the 3rd draft NPDES Permit were submitted to PaDEP. No response has been given.

Regulatory Update

Sewage Collection System





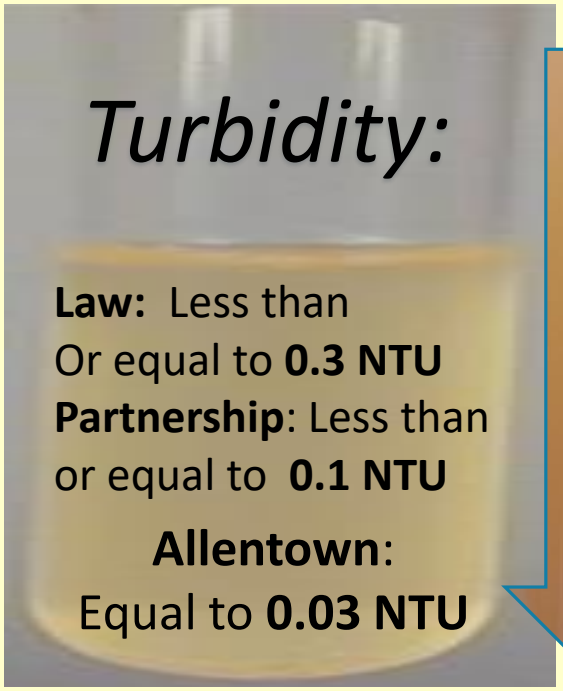
CCTV Minimum linear footage requirement: 55,000 feet

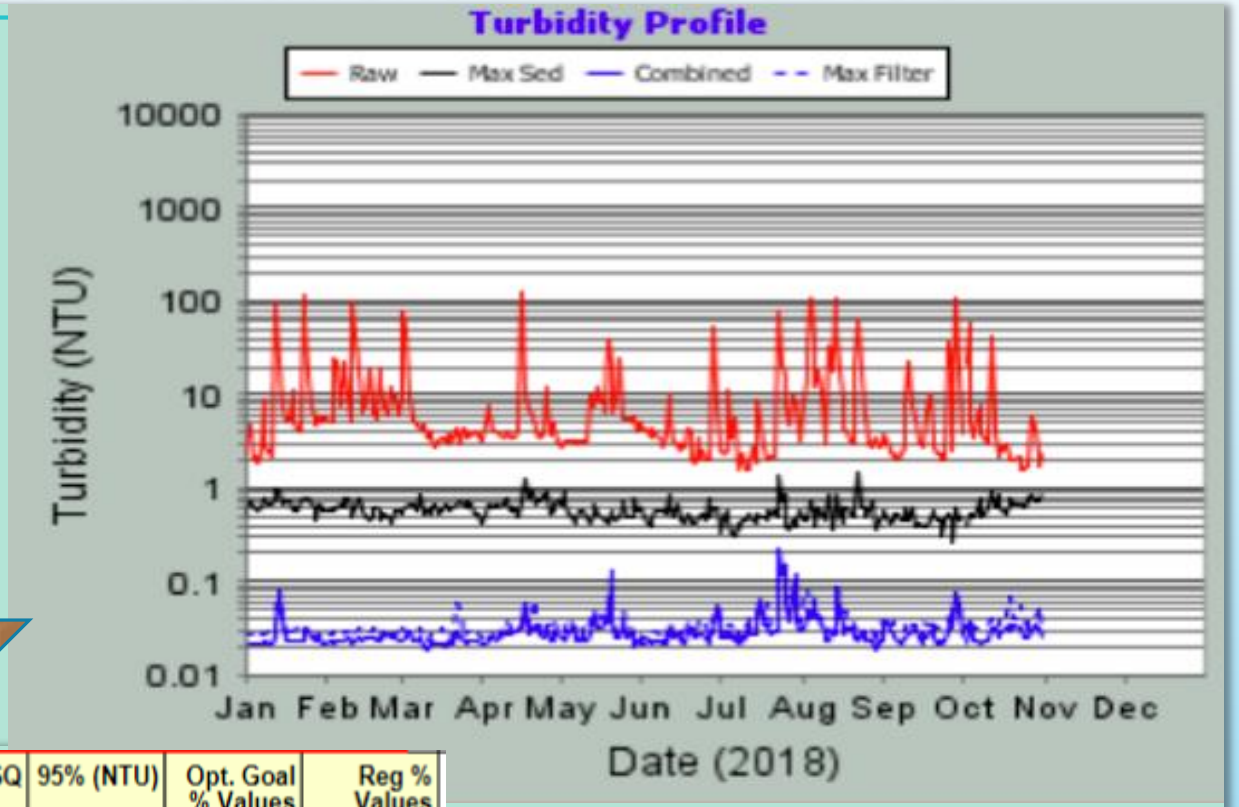
Linear feet televised

January 1 - September 30, 2018:

138,548 feet (Including Credits)

Drinking Water Treatment and Production





ANNUAL DATA	Avg (NTU)	Min (NTU)	Max (NTU)	RSQ	95% (NTU)	Opt. Goal % Values	Reg % Values
Raw Turbidity	10.96	1.53	122.38	n/a	51.23	n/a	n/a
Max. Settled Turbidity	0.59	0.27	1.43	0.08	0.82	100	n/a
Max. Filtered Turbidity	0.036	0	0.147	0.02	0.065	98.6	n/a
Combined Filtered Turbidity	0.03	0.019	0.228	0.69	0.052	98.6	100

RSQ = Correlation Coefficient for two selected data sets.
95% = 95th Percentile value for data set.
Opt. Goal = % of values in data set that are less than or equal to the selected optimization turbidity goal.
Reg. = % of values in data set that are less than or equal to the regulated turbidity requirement.

Partnership for Safe Water

PARTNERSHIP FOR SAFE WATER®

Drinking Water Treatment and Production

NO
Maximum Contaminant Levels were exceeded.

Contaminant Testing

https://lehighcountyauthority.org/wp-content/uploads/ALD.pdf

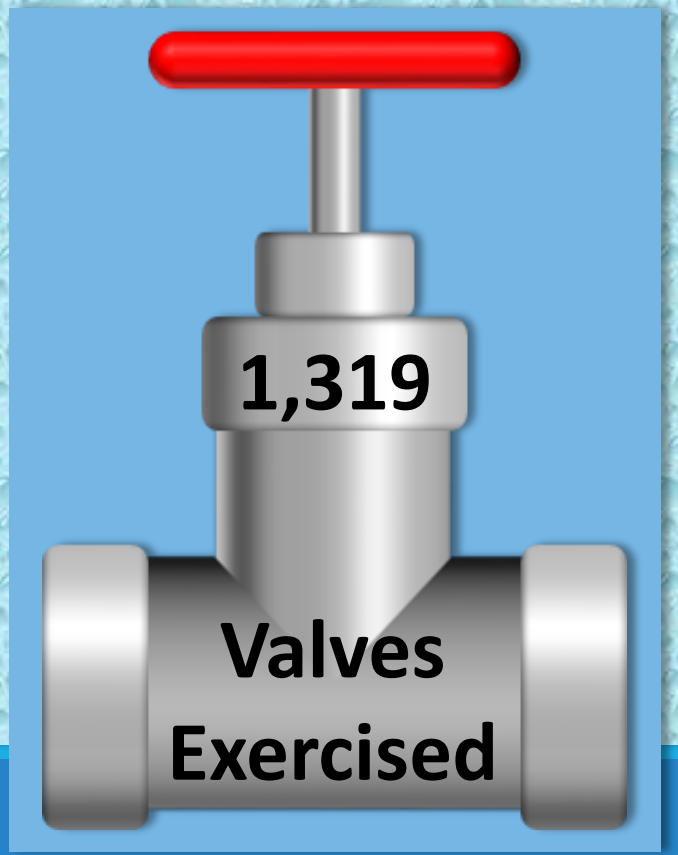
Drinking Water Distribution System

Hydrants Inspected

995

and Tested

107.88 Miles of Pipe Checked for leaks



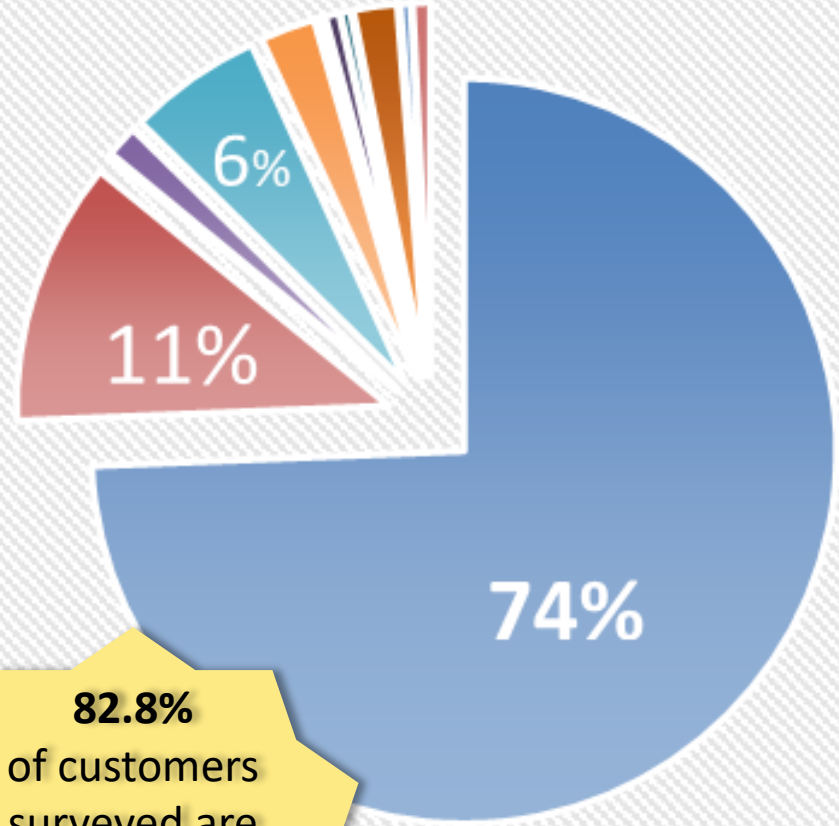
Notices of Violation

Security

A security breach occurred

2/23/2017

Customer Service Calls: Jan - June 2018



- General Billing
- Change Address / Property Settlement
- Delinquency
- Credit Card Payment
- Turn On / Turn Off
- Meter / Technical Problem

82.8% of customers surveyed are "Satisfied or Very Satisfied"

CHANGE of LAW

Change of Law is the impact of a means either (A) the enactment, adoption, promulgation, modification or repeal after the Bid Date of **any federal, state or local Law**, or the change in interpretation (as evidenced by a final official action of a Governmental Authority having jurisdiction or a decision of a court with jurisdiction over the subject matter and with respect to which no appeal is pending or may be taken) **after the Bid Date…**

Section 7.1 Imposition of Service Charges

(g) Change of Law. The Schedule of Service Charges shall be subject to prospective **annual adjustment, upward or downward,** on account of any Change of Law in order to reflect any changed cost or expense related to the System and incurred by the Concessionaire as a result thereof, all as may be reasonably **agreed to by the City and the Concessionaire.**

CHANGE OF LAW – Revised Total Coliform Rule

Cost: $16,443.67

2018 Ratepayer expense:

$0.004/1,000g

CHANGE OF LAW

Cost: $21,010.39

2019 Ratepayer expense:
$0.00587/1,000g

CHANGE OF LAW – CHAPTER 109 USSP

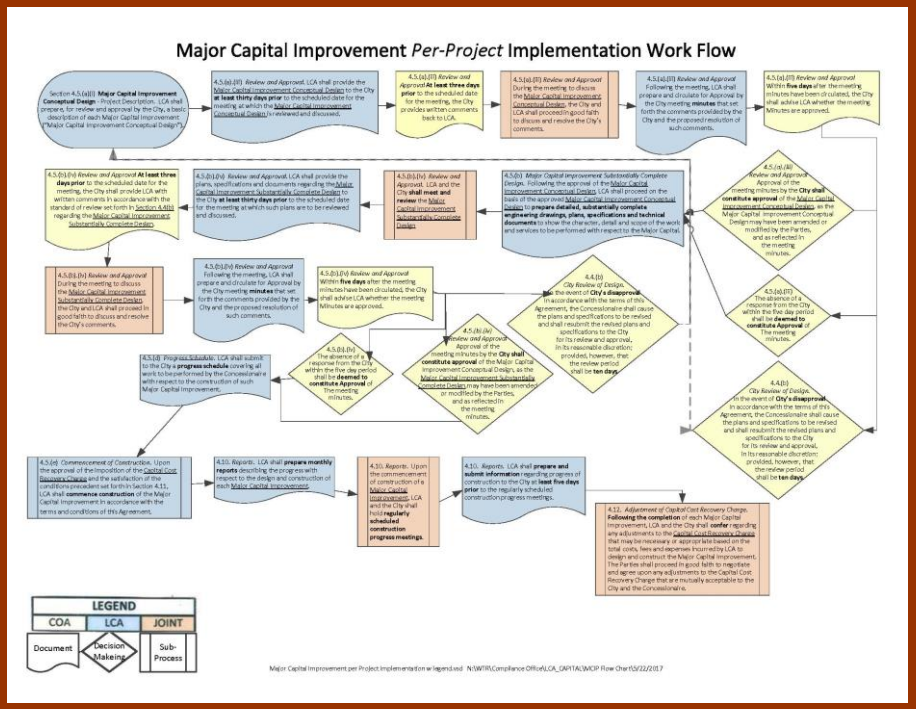
Uninterrupted System Service Plan ensure that safe and potable water is continuously supplied to users

Potential for 2020

CAPITAL PROJECTS

"Restoration Work" and "Uncompleted Work" is planned work not completed by the transfer date.

"Required Capital Improvements" "Schedule 7" are Major Capital Improvements required by the Concession Lease Agreement to be completed by Winter 2017.

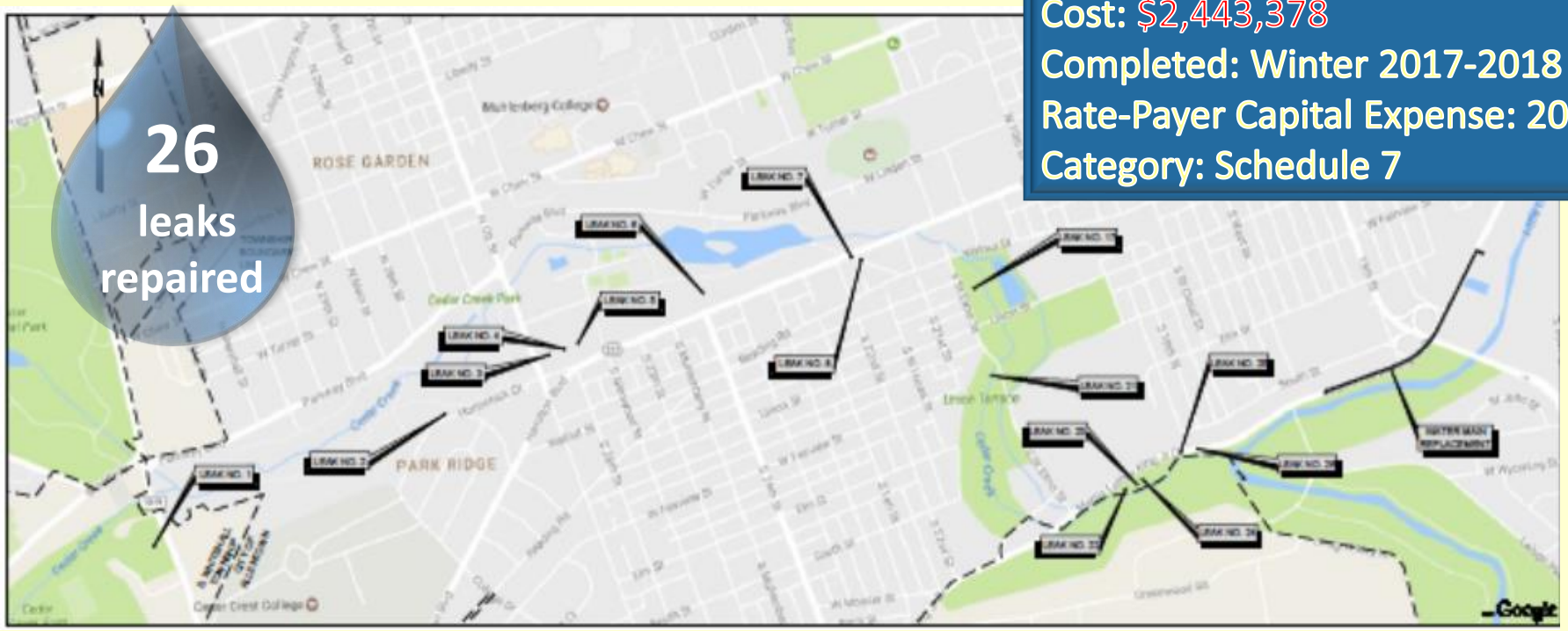


"Administrative Order Projects" Projects planned to comply with the Administrative Orders.

Major Capital Improvements are those projects, approved by the Office of Compliance which cost more than one million + CPIU (Consumer Price Index for Urban).

Water Filtration Capital Projects - 2017

Schantz Spring Water Main Replacement Project



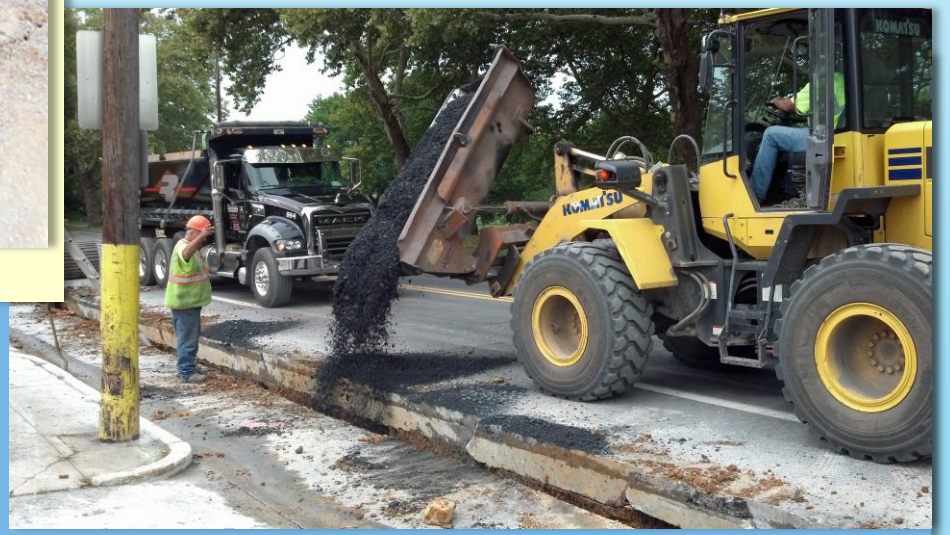
Cost: $2,443,378
Completed: Winter 2017-2018
Rate-Payer Capital Expense: 2019
Category: Schedule 7

Distribution System Capital Projects - 2016

Cycle IV- Water Main Replacement Project

0.98 miles- using exceedance credit.

Cost: approx. 2,000,000.
Anticipated Completed: Dec 2018
Rate-Payer Capital Expense: 2020
Category: MCIP



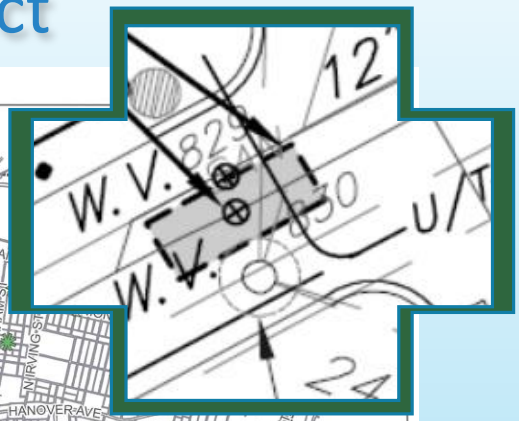
Water Main Replacement

The Pipe Prioritization Assessment Program identifies mains that will need to be replaced using various sources of data: pipe age, break history, geology and ground subsidence history.

Water Distribution Capital Projects - 2017

Inoperable Valves Replacement Project

Cost: $1,110,000
Complete: December 2018
No Rate-Payer Capital Expense
Category: Uncompleted Work



Replacing 55 inoperable valves in multiple locations throughout the City.

Wastewater Treatment Plant Capital Project - 2017

Primary and Secondary Digesters

Replaced anaerobic floating covers

Estimated Cost: $3,012,225
Completed: Fall of 2017
Rate-Payer Capital Expense: 2019
Category: Schedule 7

Wastewater Treatment Plant Capital Project - 2019

Replacement of the 480V Substation No. 2

Estimated Cost: $2,847,500
Anticipated Completion Date: End of 2019
Rate-Payer Capital Expense: 2021
Category: MCIP

Administrative Orders

Borough of Alburtis
Borough of Emmaus
Borough of Macungie
City of Allentown
Coplay-Whitehall Sewer Authority
Hanover Township
Lehigh County Authority (LCA)
Lower Macungie Township
Lowhill Township
Salisbury Township
South Whitehall Township
Upper Macungie Township
Upper Milford Township
Weisenberg Township

Administrative Orders

- CWA-03-2007-0332DN
- CWA-03-2009-0313DN

QUESTIONS

Happy Holidays