



Pittsburgh
Water & Sewer
Authority

**COLLABORATION DAY
CAPITAL IMPROVEMENT PROGRAM
DISTRIBUTION AND COLLECTION
SYSTEM PROJECTS**

November 18, 2015
8:30 – 9:45

Distribution System Project Descriptions

Project Name	Description
<p>Upper Lawrenceville Waterline Relay Phase 2</p>	<p>Replacement of 6,800 linear feet of 6-inch cast iron pipe with 8-inch ductile pipe, including valves, fire hydrants, and other appurtenances.</p>
<p>Lothrop Street, Victoria Street, Darragh Street, Terrace Street, Fifth Avenue, and Neville Street Waterline Relay</p>	<p>Replacement of 2,900 linear feet of existing 6-inch and 8-inch pipe with a minimum of 8-inch ductile pipe, including valves, fire hydrants, and other appurtenances.</p>
<p>Future Annual Water Distribution System Improvements</p>	<p>Strategic replacement or rehabilitation of water mains to improve system reliability as well as improve water pressure, maintain water quality, and minimize disturbance to the community.</p>
<p>Annual Water Urgent Repair and Relay</p>	<p>Replacement of existing water mains, valves, fittings, service connections, and hydrants due to emergency situations.</p>
<p>Annual Valve and Hydrant Replacement</p>	<p>Replacement of defective or non-operational valves and broken or older model type hydrants throughout the water distribution system.</p>

Distribution System Projects

Project Name	Pre 2016	2016	2017	2018	2019	2020	Post 2020	Total
Upper Lawrenceville Waterline Relay Phase 2	\$0.23	\$4.66	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.89
Lothrop Street, Victoria Street, Darragh Street, Terrace Street, Fifth Avenue, and Neville Street Waterline Relay	\$0.13	\$2.17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.30
Future Annual Water Distribution System Improvements	\$0.00	N/A	\$3.99	\$4.11	\$4.23	\$4.36	\$4.49	\$21.16
Annual Water Urgent Repair and Relay ²	\$1.00	\$1.14	\$1.18	\$1.21	\$1.25	\$1.29	\$1.33	\$8.39
Annual Valve and Hydrant Replacement	\$2.91	\$2.99	\$3.08	\$3.18	\$3.27	\$3.37	\$3.47	\$22.27
Total	\$4.26	\$10.98	\$8.25	\$8.50	\$8.75	\$9.01	\$9.28	\$59.03

Collection System Project Descriptions

Project Name	Description
Wastewater System Improvements	Strategic replacement or rehabilitation of sewer mains to improve system reliability and minimize disturbance to the community.
31st Ward Sewer System	Installation of a new gravity trunk line to convey flow to West Mifflin Sanitary Sewer Municipal Authority.
Annual Urgent Sewer Repair and Reconstruction	Repair or reconstruction of existing sewers, manholes, catch basins, and inlets due to emergency situations or pipe failures.
Annual Sewer Point Lining	Installation of a cured-in-place pipe liner to renew up to ten feet of small diameter (less than 24-inch) sewer mains to renew structural integrity and water tightness.
Annual Sewer Lining	Installation of a cured-in-place pipe liner to renew structural and water tightness of sewer pipes.
Annual Sewer Gunite	Rehabilitation of large diameter sewer mains to renew structural integrity, and water tightness of trunk sewers.
Long Term Control Plan Development	Updates and refinement to the previously developed Wet Weather Feasibility Study to comply with the proposed Consent Order.
CSO Improvements	Placeholder for system improvements recommended by the Long Term Control Plan, and accepted by Regulators

Collection System Projects

Project Name	Pre 2016	2016	2017	2018	2019	2020	Post 2020	Total
Wastewater System Improvements	\$1.22	\$5.31	\$5.47	\$5.64	\$5.81	\$5.98	\$6.161	\$35.60
31st Ward Sewer System	\$0.00	\$0.61	\$3.96	\$0.00	\$0.00	\$0.00	\$0.00	\$4.57
Annual Urgent Sewer Repair and Reconstruction	\$1.06	\$1.14	\$1.18	\$1.21	\$1.25	\$1.29	\$1.33	\$8.46
Annual Sewer Point Lining	\$0.00	\$1.15	\$1.19	\$1.22	\$1.26	\$1.30	\$1.34	\$7.46
Annual Sewer Lining	\$1.97	\$1.73	\$1.78	\$1.84	\$1.89	\$1.95	\$2.01	\$13.16
Annual Sewer Gunite	\$1.29	\$1.15	\$1.19	\$1.22	\$1.26	\$1.30	\$1.34	\$8.75
Long Term Control Plan Development	\$0.00	\$0.00	\$0.00	\$0.55	\$0.00	\$0.00	\$0.00	\$0.55
CSO Improvements	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$62.70	\$62.70
Total	\$5.54	\$11.10	\$14.77	\$11.68	\$11.47	\$11.81	\$74.87	\$141.24

Stormwater System Projects

Project Name	Pre 2016	2016	2017	2018	2019	2020	Post 2020	Total
11 th Street Storm Relief Sewer	\$0.00	\$0.00	\$0.59	\$3.81	\$0.00	\$0.00	\$0.00	\$4.39
Annual Catch Basin Replacement	\$3.33	\$1.91	\$1.97	\$2.03	\$2.09	\$2.16	\$2.22	\$15.72
Total	\$3.33	\$1.91	\$2.56	\$5.84	\$2.09	\$2.16	\$2.22	\$20.11

Project Name	Description
11 th Street Storm Relief Sewer	Installation of dedicated storm sewer on 11th Street from Bedford Avenue to the Allegheny River.
Annual Catch Basin Replacement	Strategic replacement of catch basins and storm inlets throughout the system to replace failed units, stormwater control reliability and minimize disturbance to the community.

