

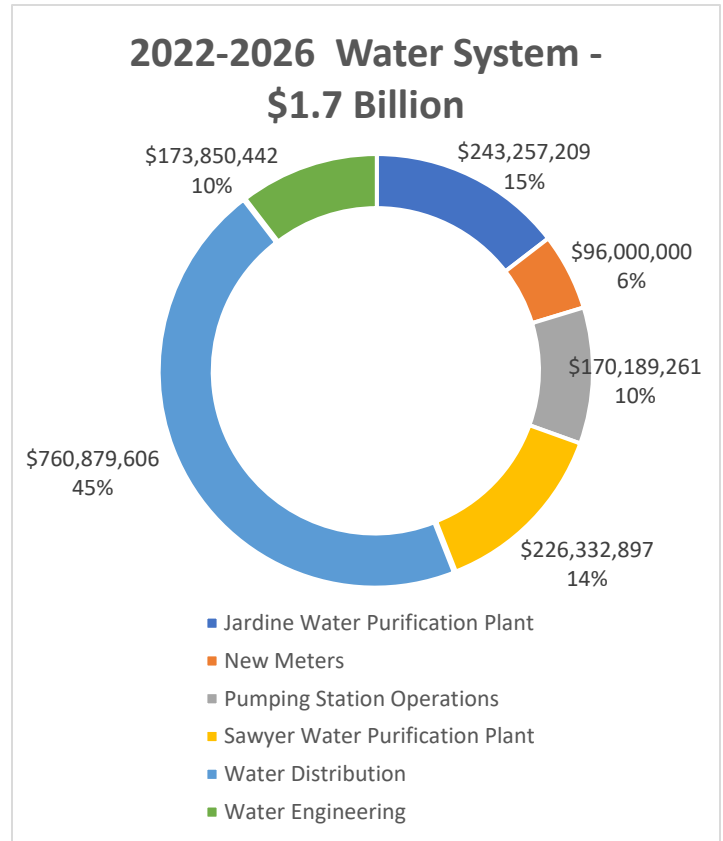
# Water System

DWM is responsible for delivering potable water from the filtration plants to pumping stations, the Chicago consumer, and adjacent suburban communities. The Water System Program includes maintaining the City’s two water purification plants; maintenance and upgrades to 12 pumping stations; increase the available water supply through installation of new and replacement of old grid mains and various appurtenances; and replacing unreliable meters to ensure proper accountability of water usage.

The total 2022-2026 Water System allocation is \$1.7 billion including \$271.8 million from water fees, \$878.3 million from bond funds, and \$519.6 million from state & federal grants and loans.

DWM plans to continue water main installation; however, the department is currently evaluating the mileage of water mains to be replaced in 2022. After carefully reviewing the project locations, and in anticipation of the private drain pilot study results, the goals for capital construction will be finalized based on the findings.

The Lead Service Lines Replacement Program contains approximately 380,000 lines within the City of Chicago. DWM is working on two pilot programs to assess the cost and method



of replacing these lead service lines. The department is also reviewing various funding options to fund water main replacements.

## Jardine & Sawyer Water Purification Plants

The City has two water purification plants: Jardine and Sawyer. The capital program focuses on improvements help to properly maintain the facilities ensuring continuity and efficiency at the city’s major purification plants. The work will include replacement of outdated boiler systems; filter underdrain replacement; filter building roof replacement; and the Joliet Tunnel

Water System Programmatic Funding				
Funding Type	2022 (\$)	2022 (%)	2022-2026 (\$)	2022-2026 (%)
Bond	\$ 80,073,079	29.04%	\$ 878,253,820	52.57%
City	\$ 118,349,776	42.92%	\$ 271,800,186	16.27%
Federal	\$ 15,020,000	5.45%	\$ 265,720,000	15.91%
State	\$ 61,448,001	22.28%	\$ 253,868,948	15.20%
TIF	\$ 866,461	0.31%	\$ 866,461	0.05%
<b>Total</b>	<b>\$ 275,757,317</b>		<b>\$ 1,670,509,415</b>	



Connection at the Sawyer Water Purification Plant. At the Jardine Water Purification Plant, the sediment force main project; HVAC Improvements; the turbidity meters & actuators will be replaced; and work will begin on the filter building brick rehabilitation project. The investments at the two purification plants from 2022-2026 total \$469.6 million.

### **New Meter Program**

The New Ultrasonic Meter Pilot began in early 2020 as a potential new type of water meter to utilize in Chicago. While awaiting the results of the pilot program the existing meter program will continue. The 2022-2026 New Meter Program budget is \$96.0 million.

### **Pumping Station Operations**

The City has 12 pumping stations ensuring distributions to all parts of the city as well as the 123 suburban customers. Construction will continue at the Central Park pumping station, and Western Ave and Mayfair pumping stations will be in the design phase for their respective capital improvements. Additionally, the 5-year CIP includes work for upgrades of pumps and motors at various existing electric powered stations. The 2022-2026 Pumping Station Operations Program is \$170.2 million.

## Water Distribution

The Water Distribution program will replace and restore existing water mains throughout all parts of the 4,400 miles of the city water system including the start of the Lead Service Line Replacement Program. The 2022-2026 Water Distribution Program is \$760.9 million.

## Water Engineering

The Water Engineering program performs topographical surveys, structural inspections, leak surveys, and fire flow testing that guide the capital construction for Water Systems. The 2022-2026 Water Engineering Program is \$173.8 million.

