

## WATER PROGRAM

The Water Program is administered by the Utilities Department. The program is designed to achieve five primary strategic objectives:

- 1) Replace and/or rehabilitate aging infrastructure;
- 2) Maintain or increase system reliability;
- 3) Improve system efficiency;
- 4) Address system growth; and
- 5) Regulatory compliance.

The Water Program continues to plan and invest in the future of the city by maximizing treatment capacity and ensuring facilities are in place to reliably provide water to current and future city residents. The program is slated to improve and enhance the city's water supply, treatment and distribution systems, and provide for new construction and/or upgrades of the city's infrastructure such as pump stations, tanks, treatment facilities, and transmission and distribution water mains.



*Dean Drive Storage Tank*

### **PRIOR YEAR ACCOMPLISHMENTS**

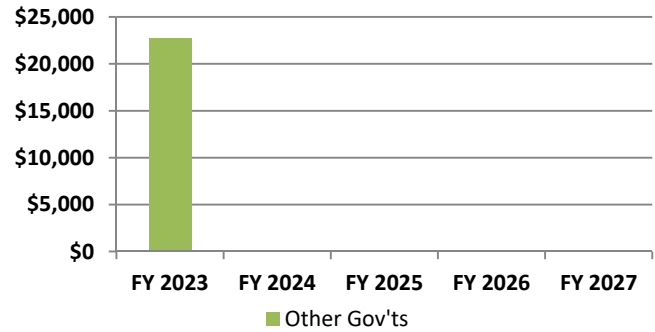
The Water Program continues to invest in ongoing projects to maintain and upgrade the City's reservoir, Water Treatment Facility, and transmission/distribution system. These projects include:

- Upgrading existing 24" water transmission main to 36" (W-042). Phase V of the project, replacing 5,600 feet along Route 28 was completed.
- Completed construction of the new 2.5-million gallon storage tank on Dean Drive (W-071).
- Rehabbed the filter system and replaced the media and flocculators 1 and 2 at the water treatment plant.

### **THE FIVE-YEAR PLAN (FY 2023 – FY 2027)**

The FY 2023 Five-Year Capital Improvement Program (CIP) includes \$22,700,000 in Federal Aid.

FY 2023 funding consists of \$22,700,000 in Federal Aid.



*(Dollars in Thousands)*

### **FY 2023 CAPITAL PROJECTS**

#### **24" Transmission Main Replacement (W-042)**

Ongoing work to replace the existing 24" transmission main.

#### **Water Treatment Plant Improvements**

Ongoing improvements at the water treatment plant to increase finished water capacity to 18 MGD (W-047), clear well addition and roof renovation (W-065), surge tank expansion (W-072) and screw press decant (W-076).



### **FY 2023 MAINTENANCE CAPITAL PROJECTS**

#### **Main Replacement/Looping (W-050)**

Replace undersized and aging/failing water mains and loop existing dead-ends on Peabody Street (Stonewall Road to Hazel Drive), Hazel Drive (Peabody Street to Peabody Street), Park Street, and Park Avenue.

### **NEW CAPITAL PROJECTS**

There are no new projects in the Water Program.



**WATER CAPITAL PROJECT LISTING**

(\$ in Thousands)

<b>Project Name</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Future</b>	<b>Total Project</b>	<b>5-Year CIP</b>
24" Transmission Main R	16,710	16,000	-	-	-	-	-	32,710	16,000
Finished Water Capacity	7,600	-	-	-	-	-	-	7,600	-
Clear-Well Addition and	5,071	-	-	-	-	-	-	5,071	-
Nokesville Road Water	1,300	-	-	-	-	-	-	1,300	-
Surge Tank Expansion	2,000	-	-	-	-	-	-	2,000	-
Screw Press Decant	-	6,700	-	-	-	-	-	6,700	6,700
<b>Total</b>	<b>32,681</b>	<b>22,700</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>55,381</b>	<b>22,700</b>















# WATER MAINTENANCE CAPITAL PROJECT LISTING

(\$ in Thousands)

The City identifies Capital Projects as projects with a cost greater than \$100,000 **and** a useful life of 10+ years. The City recognizes that there are additional projects/needs that are capital in nature but do not meet the requirement set forth for a capital project. These additional projects/needs are considered Maintenance Capital Projects, a list of which is provided below for the Water Program.

Project Name	Prior Years	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Future	Total Project	5-Year CIP
Main Replacement / Loo	4,144	-	400	400	400	400	-	5,744	1,600
Water Plant Improvemen	1,717	-	400	200	200	200	-	2,717	1,000
Conventional Filter Reha	488	-	-	-	-	300	300	1,088	300
<b>Total Cost</b>	<b>6,349</b>	<b>-</b>	<b>800</b>	<b>600</b>	<b>600</b>	<b>900</b>	<b>300</b>	<b>9,549</b>	<b>2,900</b>

## Funding Sources

General Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-	-
Water Fund	5,861	-	800	600	600	900	300	9,061	2,900
Electric Fund	-	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-	-
Bonds	488	-	-	-	-	-	-	488	-
State	-	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-	-
<b>Total Funding</b>	<b>6,349</b>	<b>-</b>	<b>800</b>	<b>600</b>	<b>600</b>	<b>900</b>	<b>300</b>	<b>9,549</b>	<b>2,900</b>