PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET

PROJECT INFORMATION

Project Name: **Tank Re-Chlorination Program**

CIP Number: WST-111

JDE Number(s): Not Assigned

Location: County Wide

Pressure Zone: Multiple

Sewershed: Multiple

Magisterial District: Multiple

Project Estimate: Order of Magnitude

Estimate By: Operations and Management Division

PROJECT DESCRIPTION

Project Description: Residual Control System (RCS) is a management system that provides an intelligent, automated disinfectant boosting system that provides the ability to set, control, and maintain cost-effective chlorine residual levels in our water storage tanks. In addition, the project will install the management system, controls, and ancillary equipment. Other Components that are upgraded as needed are electrical equipment, tank mixing system, and thermal probes to monitor mixing. The storage tanks scheduled for an RCS during this 5-year CIP period include Dominion Valley (T-30), Manassas South (T-24) and Haymarket (T-20). The timing and execution are subject to change based on operational needs and priorities.

Project Benefit: This project provides an important safeguard against the risk of subsequent contamination after treatment, a unique and significant benefit for public health.

Source Derivation: Operations and Maintenance Division; Managed by Operations and Maintenance Division

PROJECT PICTURE

PROJECT FUNDING

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
630	450	550	450	550	450	0	**3080**

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
PROJECT TOTAL	**100%**

FREQUENTLY ASKED QUESTIONS

1. **What is the timeline of the project?**
   The project started in January 2024 and is anticipated to be complete by the Fall of 2025.

2. **What is a residual control system?**
   A residual control system measures existing chlorine levels in real-time and adds chlorine
   to the water stored in the tank as needed. In addition, the system being installed will continuously mix water from the Service Authority's distribution system in the tank and use thermal probes to monitor the degree of mixing. These processes will maintain water quality by helping to reduce the amount of organic material inside the tank.

3. **Why is the Service Authority doing this project?**
   A residual control system in the Braemar Water Tank will help the Service Authority ensures adequate levels of disinfection in drinking water in some areas of our distribution system. All water utilities in the Commonwealth must meet Virginia Department of Health (VDH) water quality standards, which include maintaining a minimum level of chlorine within their distribution systems.

4. **Will the residual control system project affect my water service or water pressure?**
   No. Throughout the project, the Service Authority will continue to deliver drinking water to its customers as usual.

5. **Will there be a difference in the taste or odor of my water during the project or after it is finished?**
   No, there will be no change in odor or taste of your drinking water as a result of this project.

6. **Will there be traffic impacts in the area because of the project?**
   No, although you might notice contractor vehicles going to the project site for work.

7. **Where will contractor vehicles park?**
   The vehicles will park at the project site or in a designated public parking area.

8. **What are the approved work hours for this project?**
   The project work hours are 7 a.m. to 5 p.m., Monday through Friday, excluding Prince William County-recognized holidays. The contractor can only work extended weekday hours or weekends with specific, advance approval from the Service Authority.

9. **Will the project have any other impacts on the surrounding residential community?**
   No. Noise from this project should be minimal.

10. **Where can I get more information about the Project?**
    - Email Project Manager Micah Archibald at marchibald@pwcsa.org.
    - Email For immediate assistance regarding a water service issue, contact the Service Authority's Emergency Dispatch at (703) 335-7990.