

**HENRICO COUNTY  
NOTICE OF SPECIAL MEETING  
BOARD OF SUPERVISORS**

Please take notice that the Board of Supervisors of Henrico County will hold a joint special meeting with Richmond City Council on **Monday, June 30, 2025, at 3:30 p.m.** at 1801 Commerce Road, Richmond, VA 23224.

The matter to be reviewed is:

3:30 - 5:00 p.m.                      Regional Collaboration – Public Water Service

Special meetings of the Board of Supervisors are open to the public. However, the Board does not anticipate opportunities for public comments.

The meeting will be livestreamed at:

<https://henrico.webex.com/henrico/j.php?MTID=mc30bea3593f05ab9469e5daec51c7924>

*Tanya N. Brackett*

Tanya N. Brackett, CMC  
Clerk, Henrico County Board of Supervisors  
June 25, 2025

# Joint Meeting

**June 30, 2025: at 3:30 p.m.**

Richmond Department of Public Utilities, Main Conference Room  
1801 Commerce Road; Richmond, Virginia 23224

This meeting will be livestreamed at:

[https://www.youtube.com/live/\\_A7BDLKXMLY](https://www.youtube.com/live/_A7BDLKXMLY)

<https://henrico.webex.com/henrico/j.php?MTID=mc30bea3593f05ab9469e5daec51c7924>

## Agenda

Mayor Danny Avula; Richmond City Council; Henrico County Board of Supervisors

### **I. Opening**

#### **a. Call to order and Welcome**

Danny Avula, Mayor of Richmond

#### **b. Opening remarks**

Cynthia Newbille, Richmond City Council President

#### **c. Opening remarks**

Roscoe D. Cooper, III, Henrico County Board of Supervisors Vice Chair

### **II. Staff Presentations**

#### **a. Presentation**

Scott Morris, Director, Richmond City Department of Public Utilities

#### **b. Presentation**

Bentley Chan, Director, Henrico County Department of Public Utilities

### **III. Discussion and Next Steps**

### **IV. Adjournment**

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City of Richmond  
Department of Public Utilities

# Overview - Richmond

**Background and Plant History**

**Wholesale Contracts**

**Plant Enhancements**

**Ongoing Improvements**

**Regional Coordination**



# Background and Plant History

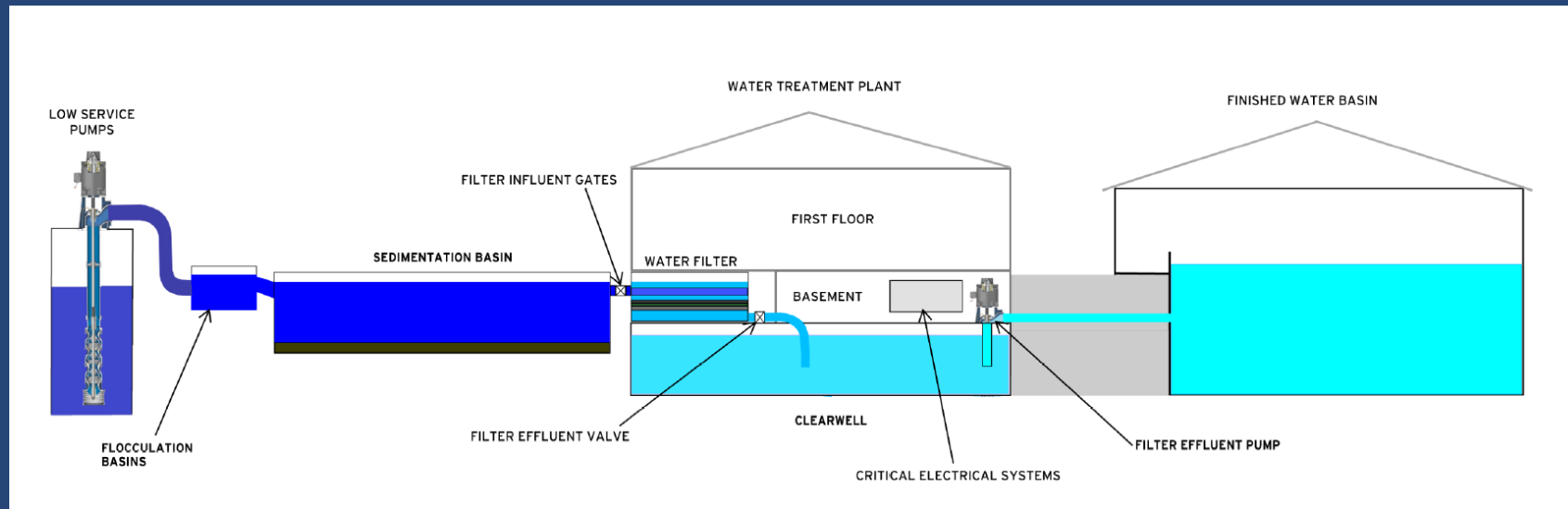


Richmond's Water Treatment Plant was built on the banks of the James River in 1924.

The second plant was built in 1950.

Before then, more than 300 years ago, Richmond's drinking water came from numerous springs and an open stream flowing from the Capitol across Main Street.

Today, Richmond's Department of Public Utilities' water plant can produce up to 132 million gallons per day (MGD). DPU also provides water to Henrico, Chesterfield, and Hanover, counties through wholesale contracts and indirectly provides water to Goochland and Powhatan counties, as well as the Town of Ashland.



# Wholesale Contracts



- Max Capacity – 35 MGD
- Average Demand – 12.43 MGD
- Max Hour Demand – 40MGD
- Expires - 2040



- Max Capacity – 32 MGD
- Average Demand – 9.14 MGD
- Max Day Demand – 33.6 MGD
- Expires - 2045



- Max Capacity – 20 MGD
- Average Demand – 6.0 MGD
- Max Day Demand – 21MGD
- Expires – 2035

# Plant Enhancements - Raw Water Pump Screens

**Need:** Existing raw water screens were at end of life.

**Scope:**

- Replace 2 Raw Water Pump Variable Frequency Drives (VFDs) (1 & 2).
- Install new mechanically cleaned fine screening (1, 2, 3 & 4) on intakes to replace temporary screening.

**Status:** Construction – 75%. Completion Fall 2026. Working to get 2 VFDs started imminently.



# Plant Enhancements - Substation #1 Replacement

**Need:** Existing substation was at end of life. Need for integration of substations, switchgear controls, and automation of emergency generator.

**Scope:**

- Replace main substation #1 and associated electrical, control, and structural components.
- Install automatic transfer switch for control of standby generator.

**Status:** Construction – 75% (new substation/controls on site and operating but in temp location).



# Plant Enhancements - Filters

**Need:** End of equipment life, flow restriction through media.

**Scope:**

- Replace four way and drain valve actuators in Plants 1 and 2 filtration systems.
- Replace filter media.
- Replace filter deck and walkway, and other piping in filter area.

**Status:**

- Design – 90%.
- Jan 6 event expedited actuator replacement.



# Plant Enhancements – Electrical

**Need:** Relocate critical electrical equipment from the basement of Plant 1 & 2 to a new electrical room on 1st floor. Replace the aged equipment as needed. Improve plant power reliability and resiliency.

## Scope:

- Phase 1 – new/raised 4160V soft starters for filtered water pumps S2 & S4. Temporary use of power from disconnect switch to feed existing S3 VFD and new S2 & S4 soft starters.
- Phase 2 – Install permanent disconnect switches or breakers to replace temporary connection. Raise other electrical equipment from basement.

**Status:** Design Phase 1 – 90% (project just started).



# Plant Enhancements Byrd Park Reservoir

**Need:** End of useful life

**Scope:**

- Replace the roof membrane and its support system.
- Demolish existing isolation valves and install new inlet piping and valves.

**Status:** West roof nearly complete. East roof to follow. Anticipated completion August 2028.



# Water Distribution SCADA/controller Updates - Phase 3B

**Need:** Update the SCADA system and controllers for distribution system. Current assets are aged or obsolete with unsupported parts and hardware.

**Scope:**

- Phase 1 – Provided distributed process control (DPS) system for control /monitoring of some stations and remote sites from Trafford PS and WTP (complete).
- Phase 2 – Incorporated pumping stations, tanks and meters not included in Phase 1 (complete).
- Phase 3A – Converted Verizon leased line to Fiber Optic MPLS (complete).
- Phase 3B – Replace DPS with PLCs at pumping stations.
- Next Phase - Re-design the infrastructure of the distribution/WTP SCADA.

**Status:** Construction of 3B – 50%, Completion Summer 2026.

# Plant Enhancements - Planning

- Created 52 Standard Operating Procedures
- Restructured Organization
- Additional Operational Staff Added
- Annual Training/Drills
- Filter Optimization Plan
- Preventative Maintenance Review
- Multiple Condition Assessments
- Water Treatment Plant Master Plan Update
- Risk and Resilience Assessment
- Revising Emergency Response Plan

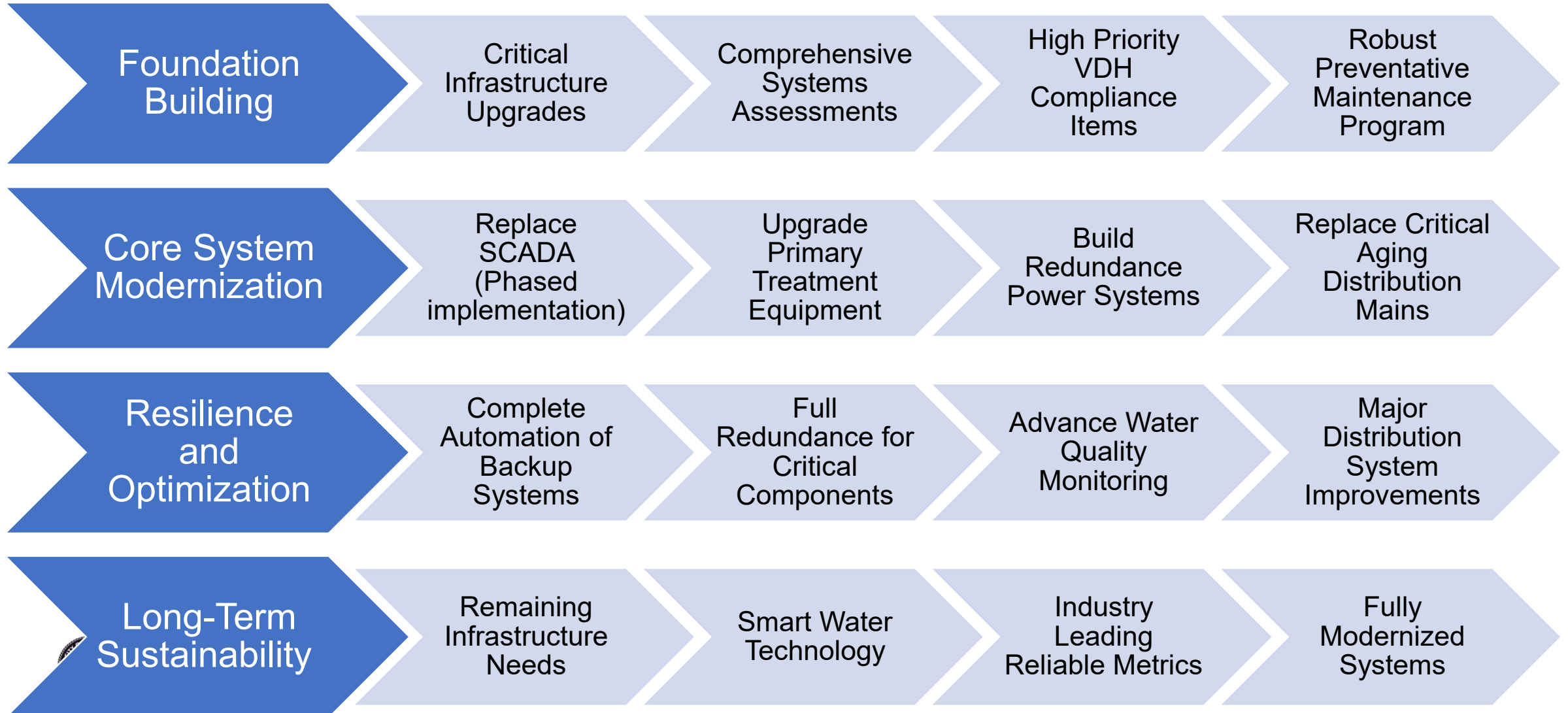


# Plant Enhancements – Water Distribution

- 1000 miles of transmission mains
  - Current replacement target: 10 miles per year
  - New target: 10-20 miles
- 69 million gallons of finish water storage
  - Minimum finished water storage based on peak day of 96 million gallons – 48 million gallons (12VAC5-590-640)
- 1-2 Tanks rehabilitated annually



# Water Plant 10 Year Modernization Plan



# Re-established Regional Coordination

- **Quarterly DPU Director Meetings**
- **Capital Improvement Project Meetings (Held May 30, 2025)**
- **Regional Tabletop Exercise Meeting (Scheduled August 25, 2025)**




CITY OF RICHMOND / HENRICO COUNTY

# Regional Collaboration

PUBLIC DRINKING WATER SERVICE

JUNE 30, 2025



# OVERVIEW - HENRICO

01. Background & History
02. Richmond Contract
03. Lessons Learned from Water Crisis
04. Current Water System
05. Water Treatment Facility
06. Cobbs Creek Reservoir
07. Capital Improvement Program
08. Rate Increase Allocations
09. Water System & Demands
10. Facilities Planning Study



## BACKGROUND & HISTORY - HENRICO COUNTY

- Prior to 2004, Henrico purchased drinking water from the City of Richmond and utilized high-capacity drinking water wells.
- Following 2004, Henrico opened its 80 MGD (55MGD initially) Water Treatment Facility (Three Chopt and Gaskins Roads) producing and distributing drinking water to western and portions of central Henrico. Portions of central and eastern Henrico remained on Richmond water.
- Henrico water and Richmond water are distributed through ~1,600 miles of water distribution mains and 26 facilities across the County.



# RICHMOND CONTRACT - HENRICO COUNTY

- Henrico entered into a Water Agreement with Richmond in September 1994.
- County agreed to contract in exchange for 80 MGD James River allocation and support for construction of Water Treatment Facility.
- 35 MGD capacity in Richmond's Water Treatment Plant.
- From 2007 to end of contract, County minimum purchase is ~12 MGD.
- No additional capacity costs unless agreed to by both County and City.



# RICHMOND CONTRACT - HENRICO COUNTY

- County may resell to other customers located outside the County, with the written approval of the City.
- Yearly Cost Allocation Study required to determine actual cost of service. Real and personal property taxes also applicable.
- Project water requirements due to City each May 1st.
- Agreement in effect until July 1, 2040.
- Agreement shall continue in force thereafter unless terminated by the Manager of the City or the Manager of the County with 5 years' notice.

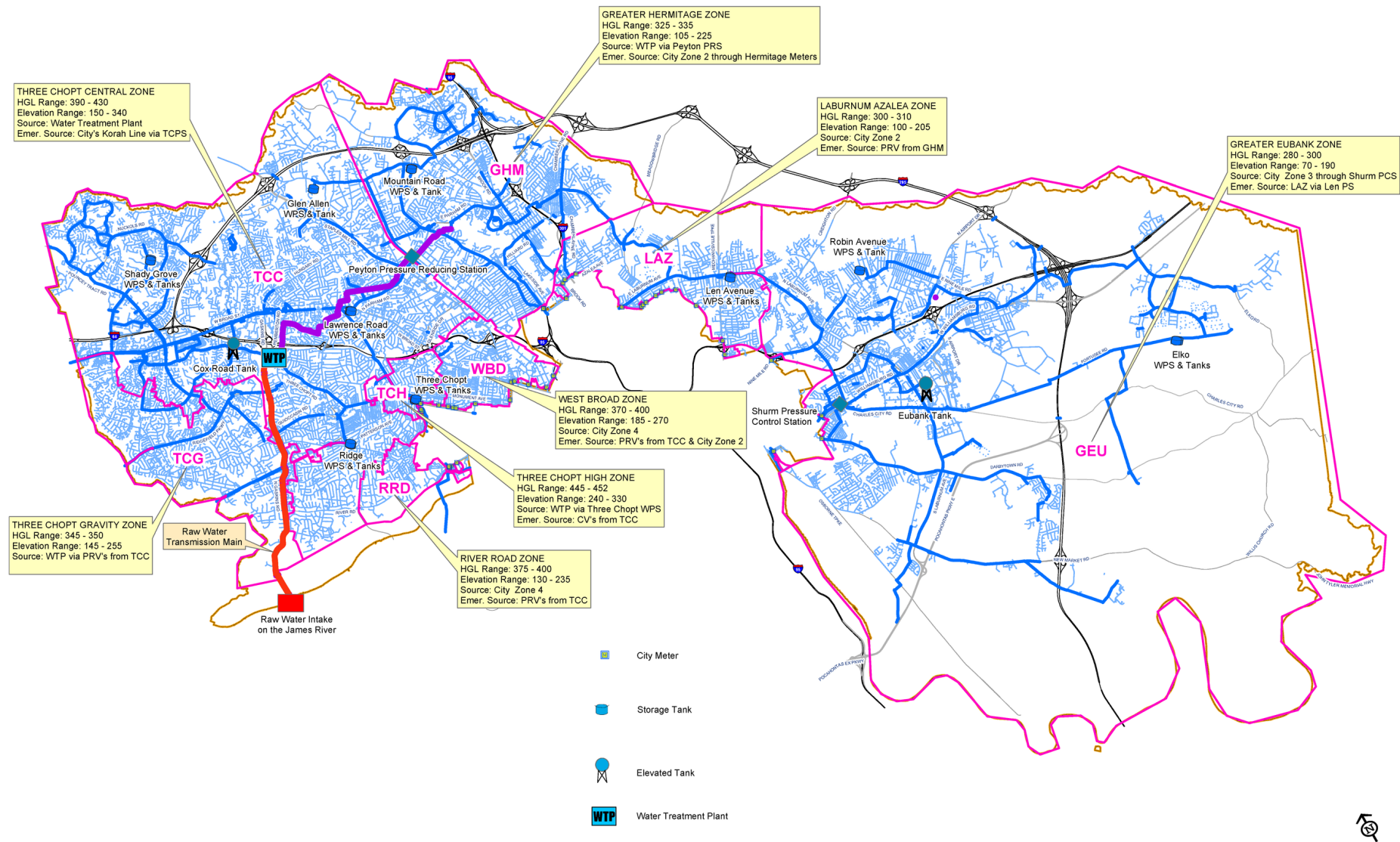
03/29/2025 07:07:22  
1101 Horsepen Rd  
Henrico County

# LESSONS LEARNED FROM WATER CRISIS - HENRICO COUNTY

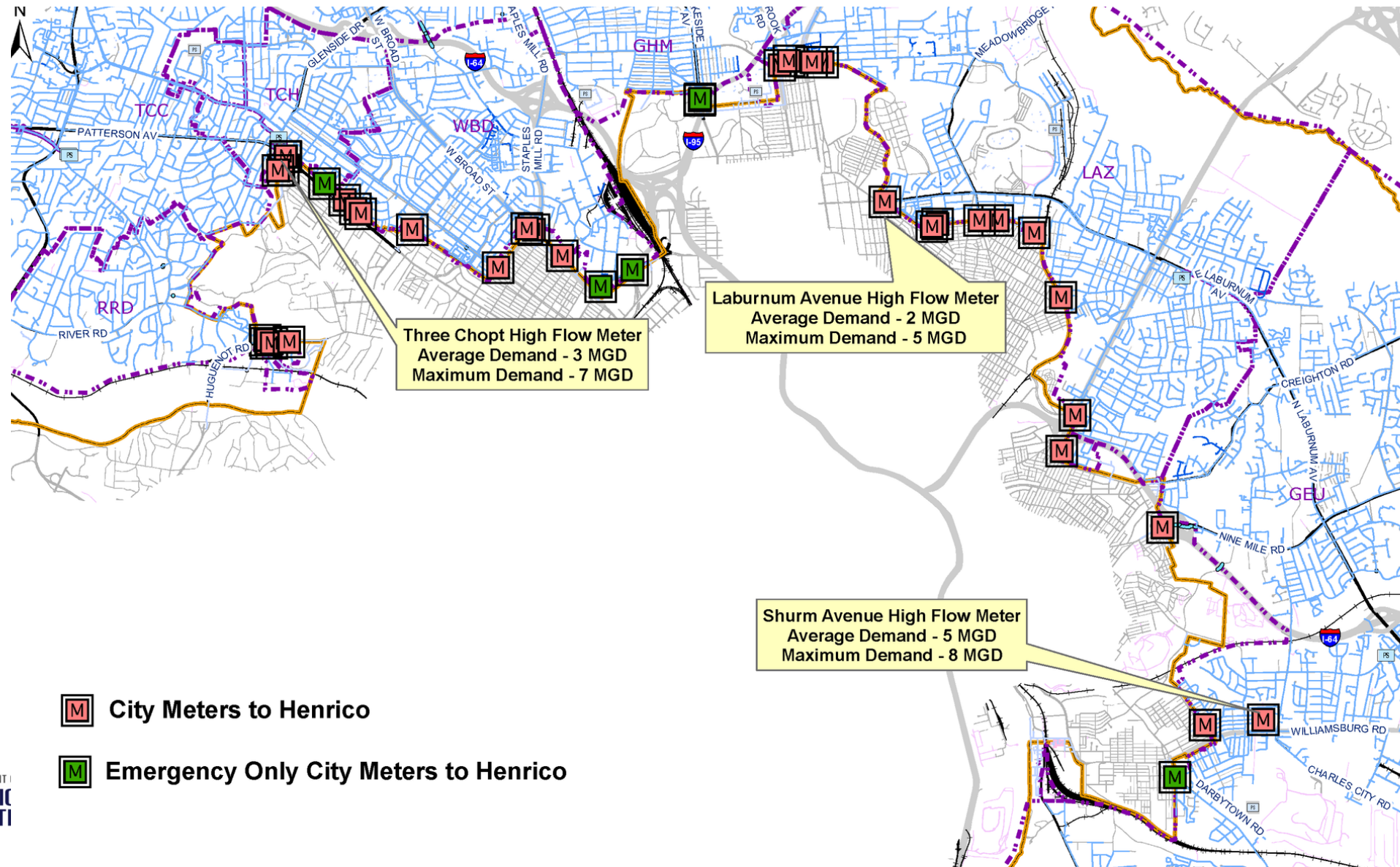
- Advance notification and enhanced communication and coordination between localities on issues
- Additional need for mutual response and aid in emergency situations
- Additional need for emergency response exercises and preparation
- Operational adjustments to ensure service reliability
- Need for redundancy and resiliency in systems



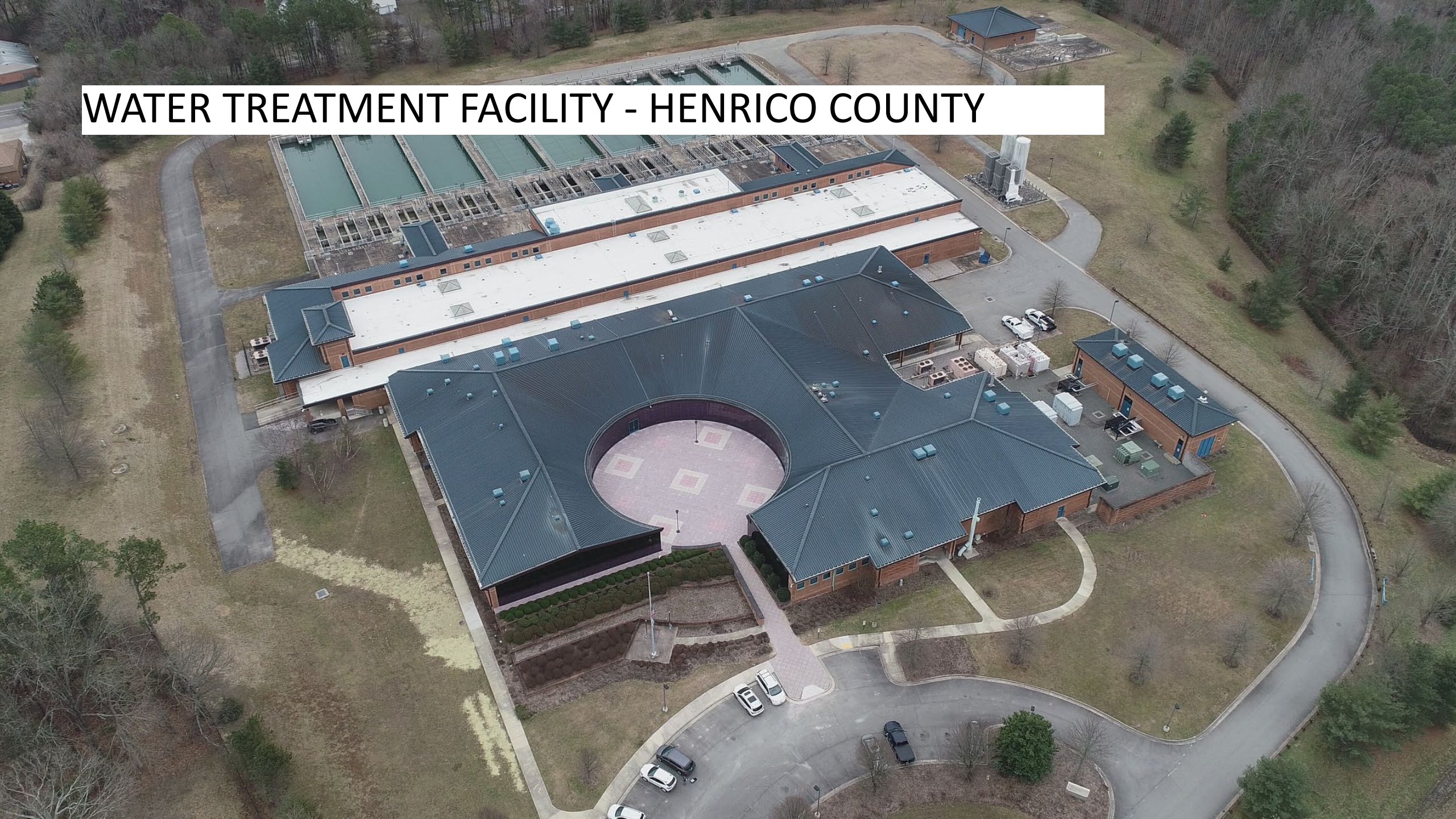
# CURRENT WATER SYSTEM - HENRICO COUNTY



# CURRENT WATER SYSTEM - HENRICO COUNTY



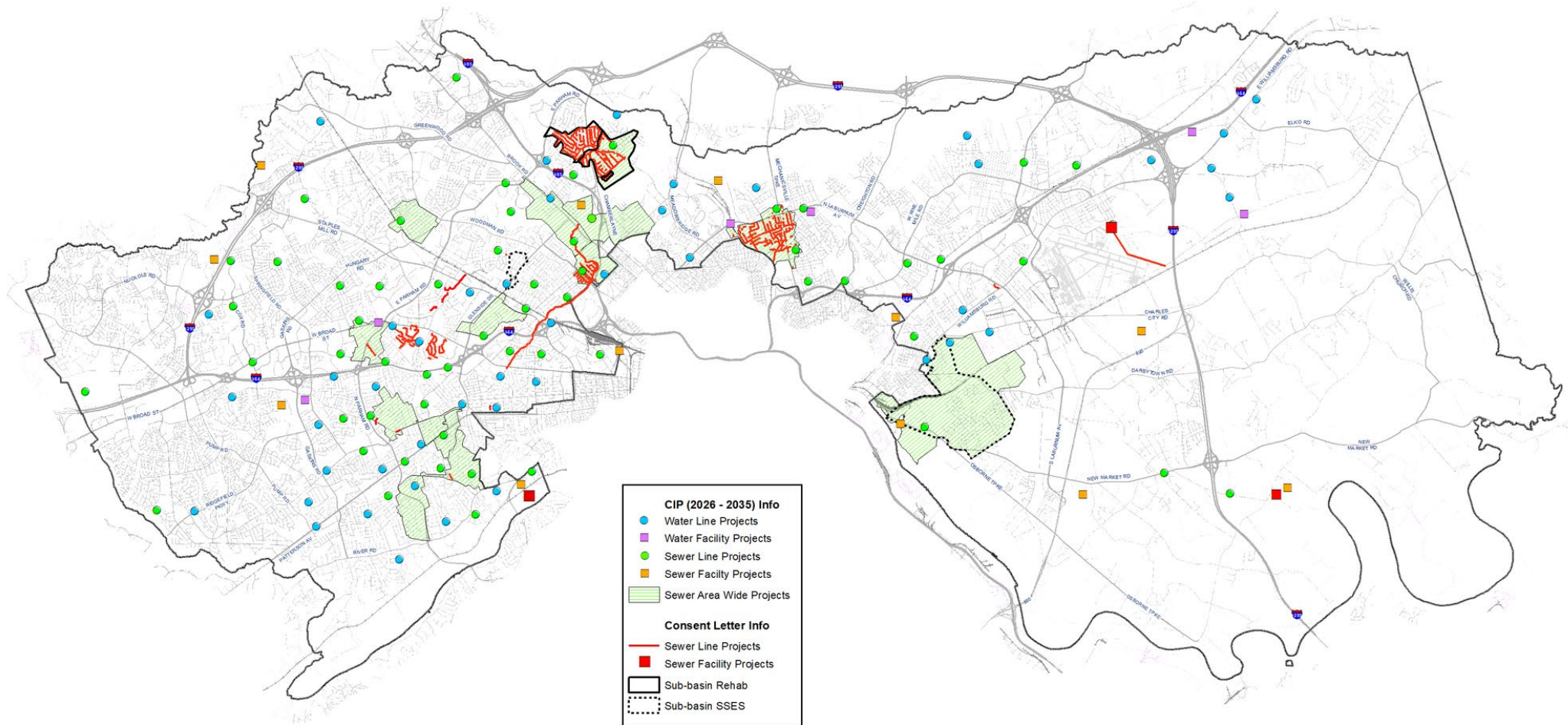
# WATER TREATMENT FACILITY - HENRICO COUNTY



# COBBS CREEK RESERVOIR - HENRICO COUNTY



# 10-YEAR CAPITAL IMPROVEMENT PROGRAM – HENRICO COUNTY



# 5% RATE INCREASE ALLOCATION – HENRICO COUNTY



# WATER PRODUCTION / DEMANDS - HENRICO COUNTY

## Current Demands:

- Average Day (2021) = 35.22 MG
- Max Day (2021) = 63.83 MG

## Future Demands:

- Average Day (2055) = 104.87 MG
- Max Day (2055) = 173.26 MG

## Current Production:

- Avg Henrico (2021) = 20.77 MG
- Avg City (2021) = 14.45 MG
- Max Henrico (2021) = 38.96 MG
- Max City (2021) = 24.87

## Future Production (Henrico):

- Average Day (2055) = 104.87 MG
- Max Day (2055) = 130 MG



# FACILITIES PLANNING STUDY - HENRICO COUNTY

- Coordination with Henrico Department of Planning's 2045 Comprehensive Land Use Plan.
- Estimate Future Average and Maximum Day Demands and Water Facilities Capacities needed for population growth.
- Identification of and planning for Capital Projects (including Treatment Facility Expansion) to Meet Demands and for Redundancy and Resiliency.
- Evaluate Needed and Required Water Supply, Storage, and Treatment Requirements and Cost Estimates.



CITY OF RICHMOND / HENRICO COUNTY

# Regional Collaboration

PUBLIC DRINKING WATER SERVICE

JUNE 30, 2025

# Memorandum of Agreement

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This Memorandum of Agreement (MOA) is entered into as of the date of the last signature below, by and between the City of Richmond, Virginia, through its Department of Public Utilities (hereinafter referred to as 'COR DPU'), and the undersigned Regional Wholesale Purchasers (hereinafter referred to individually as 'Purchaser' and collectively as 'Purchasers').

## 1. History

Richmond's Water Treatment Plant was built on the banks of the James River in 1924. Before then, more than 300 years ago, Richmond's drinking water came from numerous springs and an open stream flowing from the Capitol across Main Street. Over the years the plant has been upgraded and enlarged to meet the growing demand of the Richmond Region.

Today, Richmond's Department of Public Utilities' water plant can produce up to 132 million gallons per day (MGD). DPU also provides water to Henrico, Chesterfield, and Hanover, counties through wholesale contracts and indirectly provides water to Goochland and Powhatan counties, as well as the Town of Ashland.

## 2. Purpose

The purpose of this MOA is to outline the terms, responsibilities, and commitments of the COR DPU and the Purchasers regarding the provision and purchase of wholesale water services to ensure reliable, efficient, and sustainable water supply management. This MOA will also be shared with jurisdictions who indirectly receive water supply from the City of Richmond through these wholesale water service agreements.

## 3. Commitments by COR DPU

COR DPU shall:

- a) Provide a consistent and reliable supply of finished water to the Purchasers in accordance with the following executed contractual agreements with the following terms:
  - i. Henrico County
    - 1. Contract Year: 1994
    - 2. Contract Period: 46 years
    - 3. Max Day: 35 mgd
    - 4. Max Hour: 40 mgd
    - 5. Option to Obtain Additional Capacity: No
  - ii. Chesterfield County
    - 1. Original Contract and Amendment Years: 1989, 1994, 2018
    - 2. Contract Expiration: July 1, 2045
    - 3. Max Day: 32 mgd
    - 4. Max Peak Day Volumes: 105%

- 5. Option to Obtain Additional Capacity: Yes
  - iii. Hanover County
    - 1. Contract Year: 1994
    - 2. Contract Period: 41 years
    - 3. Max Day: 20 mgd
    - 4. Max Peak Day Volumes: 105%
    - 5. Option to Obtain Additional Capacity: Yes
- b) Maintain, operate, and upgrade infrastructure as necessary to meet service demands.
- c) Coordinate with Purchasers on contributions for any maintenance or infrastructure replacement for any infrastructure that has a direct benefit to the respective party.
- d) Provide invoices in a timely manner in accordance with contractual agreements.
- e) Provide Purchasers access to 5-year CIP upon request.
- f) Provide Purchasers access to emergency plans, training records, and standard operating procedures upon request.
- g) Notify Purchasers promptly of any anticipated disruptions in service or quality issues, including those reported to the Virginia Department of Health.
- h) Collaborate with Purchasers on planning and demand forecasting.
- i) Create a dashboard for Purchasers to view water quality parameters.
- j) Provide Purchasers recommended improvements to meet demands annually by the following dates:
  - i. Henrico County: August 1<sup>st</sup>
  - ii. Chesterfield and Hanover Counties: October 1<sup>st</sup>

#### 4. Commitments by the Purchasers

Purchasers, through their Utilities Departments, agree to:

- 1. Purchase finished water from COR DPU in accordance with their executed contractual agreements.
- 2. Pay all invoices in a timely manner as stipulated in billing agreements.
- 3. Notify COR DPU of their 10-year demand projections annually by the following dates:
  - a. Henrico County
    - i. May 1<sup>st</sup>
  - b. Chesterfield County
    - i. July 1<sup>st</sup>
  - c. Hanover County
    - i. July 1<sup>st</sup>
- 4. Approve of CIP projects that impact service by the following dates:
  - a. Henrico County
    - i. December 1<sup>st</sup>
  - b. Chesterfield and Hanover Counties
    - i. January 1<sup>st</sup>
- 5. Support water conservation initiatives and promote efficient usage during periods of drought.

## **5. Joint Commitments**

COR DPU and Purchasers both agree to:

1. Participate in annual CIP joint planning and coordination meeting(s).
2. Participate in quarterly meetings between the Directors of COR DPU and the Purchasers.
3. Participate in regional training exercises, minimum of one per year.
4. Participate in Regional Water Supply Planning Unit Discussions for Middle James 3 Regional Planning Unit.
5. Coordinate Press Releases that impact COR DPU and Purchasers.
6. Address any and all recommendations in a timely fashion.
7. Establish a Joint Advisory Committee that will review CIP projects on an annual basis and make recommendations to the City of Richmond's Engineering Services Division. Each Purchaser will have two members on the Joint Advisory Committee and the City of Richmond will have two members. Any recommendations for which consensus cannot be reached will be referred to the Director of COR DPU and addressed in accordance with existing agreements.
8. Provide timely updates to any changes in emergency contacts and review emergency contact list annually.

## **6. Term and Termination**

This MOA shall be effective upon execution by all parties and shall remain in effect unless terminated earlier by mutual written agreement or by one party with 90 days written notice to the others.

## **7. No Amendment of Existing Agreements**

This MOA is not intended to and does not amend the existing contractual agreements between COR DPU and the Purchasers. In the event any term of this MOA conflicts with a term of an existing contractual agreement, the term of the existing contractual agreement shall control.

## 8. Signatures

IN WITNESS WHEREOF, the parties have executed this Memorandum of Agreement as of the dates written below:

City of Richmond Department of Public Utilities:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Henrico County Department of Public Utilities:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Chesterfield County Department of Public Utilities:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Hanover County Department of Public Utilities:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

## **WATER AGREEMENT**

THIS CONTRACT, made this 29th day of September, 1994, by and between the CITY OF RICHMOND, a municipal corporation of the Commonwealth of Virginia ("City"), and the COUNTY OF HENRICO, a political subdivision of the Commonwealth of Virginia ("County"), replaces and supersedes the Water Agreement between the parties dated July 1, 1985.

### **WITNESSETH:**

The parties recognize that they are each potentially capable of providing their independent water supply and distribution systems to adequately serve their respective political subdivisions. It is deemed of mutual benefit by the parties for the County to purchase water from the City. For and in consideration of this and other mutual benefits from the undertakings of the parties, the City and the County covenant and agree, each with the other, as follows:

1. The City will provide water from the City's water distribution system to the County for resale by the County to water customers located within the County. The County may continue to resell to customers in Hanover and Goochland Counties water purchased from the City. The County may also resell water to other customers located outside the County, with the written approval of the City.

2. The City will actively support the County's permit application before the United States Army Corps of Engineers (Corps) and other regulatory agencies to construct a new 55 MGD water treatment plant ("WTP") along the James River. The County will actively support the City's application to the Corps and other regulatory agencies to redevelop the City's canals system and downtown riverfront.

3. The County agrees not to begin operating its WTP before January 1, 2003. However, the County may operate its plant during 2002 for testing purposes providing the water produced for such testing shall in no way diminish the amount of water the County would otherwise purchase from the City during the testing period.

The County agrees to obtain its water exclusively from the City, except for well production, until at least January 1, 2003. From January 1, 2003 through December 31, 2006, the County will purchase a minimum of 35 million ccf from the City. From January 1, 2007 through the term of this Contract, the County will purchase a minimum of 5.8 million ccf annually.

The City will make water available to the County through the year 2002 to meet the County's entire water demands, not met by well water production. The City's commitment hereunder for the period from January 1, 2003 through the remaining term of this Contract will be limited to 20 MGD on any calendar day unless the County and the City agree to a greater volume pursuant to Section 6. Notwithstanding the foregoing, the County may request, for a period of up to six months after the City obtains a rating of 132 MGD for the City's WTP and the City's determination that it can deliver 132 MGD, and the City will agree to deliver, up to 35 MGD on any calendar day after

January 1, 2007. If the County's demands are so increased, the County demands in Exhibit A-1 for the period from January 1, 2007 through the remaining term of this Contract will be increased up to 35 MGD for peak day demands and proportionately up to 40 MGD for peak hour demands and all other peak day and peak hour demands will be increased accordingly.

4(a). There shall be an annual review of the peak day demand projection for the Richmond metropolitan area served by the Richmond and Henrico WTPs. The annual review shall be based on a methodology agreed upon by the jurisdictions to be served and will be conducted by representatives of those jurisdictions.

(b). At the time of the annual review, the jurisdictions shall also review the long-range water needs of the region. Such analysis shall include projections for periods exceeding ten years and alternatives such as long-term storage and water availability outside the region, as appropriate.

(c). Prior to January 1, 2003, the City and the County also will determine whether the service needs of the Richmond metropolitan area served by the Richmond and Henrico WTPs will exceed the capacity of the Richmond WTP. The City shall be responsible for meeting projected service needs, which can include adding capacity at the City WTP, unless the City determines it is unable to meet the additional demands, in which case the City will provide the County with at least four years' advance written notice to accelerate the on-line date of the County WTP, and the County will so accelerate the on-line date. If the City expands its plant beyond 132 MGD in order to meet the County's demands before the on-line date of the Henrico WTP and not at the

County's request, any costs incurred solely for the expansion shall be Joint Costs in the annual cost allocation study only until the County WTP comes on-line. Thereafter, the County shall not be responsible for any of the increased capacity costs unless the County approves such costs in accordance with Section 6, or upon the written agreement of the County and the City. The County will accelerate the on-line date of its plant only if the City and the County so agree, and if the County so accelerates the on-line date of its plant, the dates and obligations in Sections 3 and 5(d) of this Contract shall be accelerated accordingly.

5. The charges for the sale of water to the County under this Contract shall be adjusted annually on a fiscal year basis, which fiscal year shall be from July 1st through the following June 30th. The formula for this adjustment is set forth in paragraphs 5(a) through 5(f) below.

5(a). The charges for water sold to the County after June 30, 1994 until the expiration of the Contract shall be based on the actual cost to the City, as defined below, for the fiscal year in which the sale of water occurred. The actual cost, for purposes of charges, shall be expressed in a two part rate structure consisting of a Capacity Charge per hundred cubic feet (Ccf) per month, based on twenty-four (24) hour demand, and a Commodity Charge per Ccf based on metered use. The capacity charge for billing shall be based on the demand used in the annual cost allocation study. Because the actual cost of the service in any given fiscal year cannot be determined until the close of the accounting books for that period, estimated charges per Ccf will be used until the cost allocation study is completed and the actual cost of service is determined. These

estimated charges shall be based upon the actual cost allocation study for the immediately preceding fiscal year, plus five percent (5%) for estimated increases in cost. A preliminary cost allocation study shall be completed prior to the first day of October of each year and a final cost allocation study shall be completed within thirty (30) days of completion of the City's annual audit during the term of this Contract.

5(b). The determination of actual cost of operating expenses for the City's Water Utility shall include all of the City Water Utility's operating expenses as included in Exhibit A of this Contract. The Directors of Public Utilities for the County and the City may modify the operating expenses to be included in the cost allocation study by mutual written agreement.

In addition, a payment in lieu of the City's real and personal property taxes applicable to the water utility properties within the City shall be considered a part of the actual costs.

The actual cost of service determination shall include a rate of return on rate base. Such rate of return shall be the rate of return charged the City's water customers, but shall not exceed a reasonable and conventional rate of return allowed by the Virginia State Corporation Commission for a comparable investor-owned water utility under usual industry standards.

The total rate base shall be derived from the City's Water Utility and shall include an appropriate share of the Stores and Transportation Utility Capital Accounts, also set forth in the City's "Financial Report" and shall be based upon the average of the amounts recorded (per books) as of the beginning and end of the fiscal year, beginning

with fiscal year ending June 30, 1995, for the respective utility's plant investment less accrued depreciation and contributions, plus working capital, which includes materials and supplies, prepayments and a forty-five (45) day allowance of Operation and Maintenance Expenses, excluding purchased power, for cash working capital.

5(c). The allocation of costs to serve the County shall be based upon the methodology set forth in the revised cost allocation study for the water utility. An updated cost allocation study shall be prepared by the City annually, a copy of which will be furnished to the County. If the study is not found to be mutually acceptable, a review of the study and procedures shall be conducted by the County and City, respectively.

5(d). A cost allocation study for Fiscal Year 1992-93 has been prepared by The Columbia Group dated October 1993, and this mutually agreed-upon report is attached as Exhibit A and made a part hereof. The method used in the revised cost of service determination to distribute and allocate the various costs incurred by the City in providing water service contains the parameters, procedures and principles which have been mutually agreed to by the City and the County. Such methods, parameters, procedures and principles shall be reviewed in detail upon the request of either party, except that such reviews shall be required no more frequently than one each five (5) years unless by agreement of both parties.

For cost allocation purposes for the period running through the fiscal year ending June 30, 2002, the maximum County demands used to develop the allocation factors in the cost allocation study, shall not be less than any of the highest such demands after January 1, 1988.

The cost allocation study for each fiscal year following the fiscal year ending June 30, 2007 shall use the greater of (i) the actual volumes obtained from the City during the year for each allocation factor; or (ii) the volumes for each allocation factor as included in Exhibit A-1.

For each of the fiscal years ending June 30, 2003 and June 30, 2007, two cost allocation studies will be performed. The amount the County shall pay the City for service each fiscal year shall be determined by taking one-half of each of the two studies for the fiscal year and adding the two halves together.

For cost allocation purposes for the fiscal year ending June 30, 2003, the first study shall include the maximum County demands used to develop the allocation factors in the cost allocation study, achieved after January 1, 1988. The second study shall use the actual County peak demands, including peak day, peak hour, and the like, achieved by the County from January 1, 2003 through June 30, 2003.

For cost allocation purposes for the fiscal year ending June 30, 2007, the first study shall use the maximum County peak demands achieved by the County from January 1, 2003 through December 31, 2006. The second study shall use the actual County peak demands, including peak day, peak hour, and the like, achieved by the County from January 1, 2007 through June 30, 2007.

For cost allocation purposes for the three fiscal years ending June 30, 2004 through June 30, 2006, the studies shall use the maximum County peak demands achieved by the County from January 1, 2003 through June 30, 2006.

If the County WTP is placed in service after January 1, 2003, the dates for which the cost allocations studies cited above are to be performed shall be adjusted so that County water demands are allocated to each fiscal year proportionately to the number of months they occur each year, on a basis comparable to the above allocation.

5(e). After the actual cost allocation study has been prepared each year and the cost of service per Ccf for capacity and commodity is determined, the total amount of water sold to the County by the City's Water Utility for the previous fiscal year and the total amount paid by the County shall be ascertained. The actual allocated cost of service per Ccf shall be used to compute what the County should have paid for all water purchased from the City for the entire fiscal year. If the actual payments exceed what the County should have paid under the actual cost of service per Ccf, then the County shall be reimbursed for such excess payment within thirty (30) days after completion of the cost allocation study or receive credit for such excess payment on the next invoice, whichever is earlier. If the County paid less than what it should have for all water purchased, then the County shall pay the difference within thirty (30) days of presentation of an invoice for such difference.

5(f). The City shall maintain separate continuous property and general accounting records of the costs directly assigned to the County and such other records as are necessary to implement the actual cost of service study. Such records shall be available for review by the County.

6. The County shall provide the City, annually, on or before May 1, the projected peak-hour and peak-day water requirements at each and every metering point for the

next ten (10) calendar years. Should additional metering points be established, the projected peak-hour and peak-day will be estimated as mutually agreed upon by the City and the County.

In the event that the County's projected requirements, overall or at any delivery point, exceed the capacity of any of the City's Water Utility facilities to deliver the projected increase in the County's requirements, as determined by the City, the City will, within ninety (90) days of receipt of the projection, advise the County of the scope and estimated cost of the capital improvements directly assignable to the County that are required to provide the projected increase in the County's requirements.

The County will be permitted to undertake capital improvements on its system or other means to reduce the projected peak-hour and peak-day requirements to the City's existing capabilities and will advise the City within the following ninety (90) days as to whether or not the County will do so. Upon receipt of County approval, the City will undertake the necessary capital improvements at its expense, and such costs will be assigned to the County.

The City will incur no liability to the County in the event that the County withholds its approval and the City fails to supply the increase in the County's requirements. The City shall have a reasonable time in which to enlarge or modify its distribution and plant facilities to meet increases in the County's requirements.

7. The quality and pressure of water delivered to the County under this Contract shall be that furnished City customers in the area from the main or mains from which the water is taken by the County at the metering point or points and at the time of

delivery, and it shall meet the minimum requirements of the Commonwealth of Virginia Water Works Regulations for public water supplies.

8. The County will cause to be constructed, maintained, repaired and operated in the County such water pumping stations, reservoirs and/or mains and connections thereto as are necessary to provide water service in the County under this Contract. The plans and specifications therefor and the materials used in the construction, maintenance, repair and operation thereof shall meet the minimum requirements of the Commonwealth of Virginia Water Works Regulations.

9. The City shall have the right to inspect all work done in connection with the construction, maintenance, repair and operation of the water facilities constructed or provided in the County under the provisions of paragraph 8 of this Contract and connected with the City's water distribution system, to determine whether such work is done in accordance with the provisions of paragraph 8 of this Contract, and the County will take any additional actions reasonably necessary to permit such inspection to be made.

10. Title to water facilities in the County constructed or provided by the County or caused to be constructed or provided the County under the provisions of paragraph 8 of this Contract shall vest and remain vested in the County in fee simple.

11. The City will not sell water to customers in the County without the approval of the County; however, the City will be permitted to continue service to existing customers in the County until such time as the County elects to provide service under the provisions of paragraph 13 below.

12. Except to meet projected increases in the County's peak-day and peak-hour requirements as permitted by paragraph 6, the County, insofar as it may legally do so, will not permit any person, association, firm or corporation to supply water for use on any premises or property in the County nor permit any person, association, firm or corporation to use the streets, roads, highways, alleys or other public ways or places in the County for the construction, maintenance and operation of a water distribution system or systems without the approval of the City.

13. Whenever the County desires to sell or distribute water to any resident or occupant of premises or property in the County being supplied by the City with water, the County shall have the right to do so with the approval of the City on the condition that the County will thereafter sell or distribute water to such resident or occupant, and the contract in force between the City and such resident or occupant shall be terminated by the City.

14. Whenever the County decides to distribute water in the County where the City owns a water main or mains and serves one or more consumers in the County, the County shall have the right, subject to the approval of the City, to take over the main or mains for operation, maintenance, repair, replacement and enlargement, and such facilities may be sold by the City to the County if mutually agreeable to maintain operating efficiencies; otherwise, the title to the main or mains shall remain vested in the City. However, if such main is extended by the County or caused to be extended by the County, title to such extension shall vest in the County.

15. The County will furnish to the City, on request, such information as may be required by it which will permit the accurate recordation of the location of the main or mains and connections thereto constructed or provided by the County.

16. The City will provide, install and maintain a meter at each point of delivery of water to the County under this Contract, and the quantity of all water delivered to the County at each point shall be measured through the meter. The costs and expenses associated with such metering facilities shall be included in the appropriate parts of the cost allocation study.

The Directors of Public Utilities for the County and the City shall establish the delivery and metering points by mutual written agreement. The maximum demand ratios, as established by combination commodity and demand meters at these or other locations in the future, will be used to determine the total demands for all water sales to be billed the County and will be used for cost allocation purposes.

17. The City shall read all meters monthly. The County shall have the right to read such meters simultaneously with the City for the purpose of verifying the accuracy of the readings made by the City. The County at its own option and expense shall have the right to test and verify the accuracy of such meters in the presence of the City's appropriate representatives.

18. The City shall render to the County each month as soon as practicable a bill for water delivered to the County through all meters after each monthly reading thereof. The County will pay the amount of the bill to the City within thirty (30) days after its receipt. Such bill shall itemize the readings for each such meter. Monthly billings will

be based on the estimated charges described in paragraphs 5 and 16. Such billings will be adjusted annually to reflect actual costs as also described in paragraph 5.

19. The City shall have the right to extend its water lines in the roads, streets, highways, alleys, or other public ways or places or part thereof of the County to connect sections or parts of the City's water distribution system or to serve other political subdivisions and authorities of the Commonwealth of Virginia or customers located therein. The County will provide all necessary approvals for any such City water main construction, performed in conformity with this Agreement, on the same basis as any other entities which require street access and any other County approvals. The City shall fully restore any County street, road, highway, alley or other public way or place or part thereof disturbed by such construction, extension or repair of the City systems in accordance with the County's specifications or agreements with the City in effect at the time of such construction. The City will furnish to the County, on request, such information as may be reasonably required by it to allow the accurate recordation of the location of the water main(s).

20. At any time the County constructs or reconstructs a water main or the City constructs or reconstructs a gas main in the County and at the same time the other party is constructing or reconstructing its gas or water main as the case may be, then each may join together and use a common trench and in so doing each shall pay one-half of the cost of excavating and backfilling the trench and restoring and replacing the street, road, highway, alley or other public way or place, or part thereof, including paving disturbed on account of such construction or reconstruction.

21. Neither the City nor the County shall be liable in damages to the other for any act, omission, or circumstances occasioned by or in consequence of any acts of God, strikes, lockouts, acts of the public enemy, wars, blockades, insurrections, riots, epidemics, landslides, lightning, earthquakes, fires, storms, floods, washouts, arrests, and restraints of rules and people, civil disturbances, explosions, breakage or accident to machinery or lines of pipe, the binding order of any court or governmental authority which has been resisted in good faith by all reasonable legal means, and any other cause, whether of the kind herein enumerated or otherwise, not reasonably within the control of the party claiming suspension and which by the exercise of due diligence such party is unable to prevent or overcome. Failure to prevent or settle any strike or strikes shall not be considered to be a matter within the control of the party claiming suspension. Such causes or contingencies affecting the performance hereunder by either the City or the County, however, shall not relieve it of liability in the event of its concurring negligence or in the event of its failure to use due diligence to remedy the situation and to remove the cause in an adequate manner and with all reasonable dispatch, nor shall such causes or contingencies affecting such performance relieve either party from its obligations to make payment of amounts then due hereunder in respect of water theretofore delivered.

22. The County shall maintain during the life of this Contract such personal and bodily injury liability and property damage liability insurance or documentable self-insurance as shall protect it from claims for damages for personal or bodily injury,

including death, as well as from claims for property damage, which may arise from alleged negligence of the County in the distribution of water supplied by the City.

23. The County shall not during the term of this Contract impose, levy or collect a tax of any type whatsoever upon the business, property and facilities of the City located within the County which are used for the purposes of carrying out the City obligations and privileges under this Contract, provided that this provision shall not apply to consumer taxes levied by the County.

24. The City and County covenant and agree each with the other that this Contract shall be in full force and effect until July 1, 2040 and shall continue in force thereafter until terminated by either the Manager of the City or the Manager of the County giving to the other five (5) years' written notice to that effect. The City and County covenant and agree each with the other that if this Contract is terminated by the County, the County will reimburse the City for the original cost less accumulated depreciation of the facilities set forth in Schedules 1 and 9 of Exhibit A of this Agreement, additional facilities that have been constructed pursuant to paragraph 6, and facilities allocated to serve the County provided such facilities are not required by the City. The value of joint use facilities allocated to serve the County is approximately \$27,173,311 and direct cost/contract facilities constructed to serve the County is approximately \$7,421,444 as of June 30, 1993. If this contract is terminated by the City, there shall be no reimbursement from the County to the City for any facilities constructed to serve the County.

25. The City and County agree to fully support and abide by the regional James River Management Plan to ensure the environmental integrity of the James River and the critical minimum flows for the Richmond Canal projects. The City and County will seek to secure oversight of the plan by the Virginia Department of Environmental Quality or some other appropriate and mutually agreed upon State agency.

26. The City agrees to conduct a comprehensive study, subject to peer review, to determine the ability of the City's WTP to treat 132 to 150 MGD and to meet projected requirements of the Safe Drinking Water Act. The study will be completed by December 31, 1994.

27. In consideration of the County's promises in this agreement, Richmond agrees to convey 80 MGD of Richmond's water rights in the James River to Henrico. Richmond agrees not to oppose Henrico's application for withdrawal of up to 55 MGD for its Water Treatment Plant. Richmond agrees that it will not oppose Henrico's application for withdrawal of other amounts of water sufficient to treat up to 80 MGD of potable water in Henrico's Water Treatment Plant so long as the County's withdrawal is in conformance with the River Management Plan.

28. The County agrees that once its WTP comes on-line, it will reimburse the City for 50 percent of the annual operating and maintenance expenses incurred by the City in the operation and maintenance of Boshers's Dam.

29. Waiver. No failure or delay on the part of either party in exercising any of its rights and remedies hereunder or otherwise shall constitute a waiver of such rights and remedies.

30. **Modifications.** No modification of this Agreement shall be effective unless made in writing and executed by both parties.

31. **Severability.** The invalidity or unenforceability of any particular provision of this Agreement shall not affect other provisions, and this Agreement shall be construed in all respects as if such invalid or unenforceable provision were omitted.

32. **Authorities.** The City and County each represents and warrants for itself as follows as of the date of this contract:

- (a) It has the power to enter into this contract and the transactions contemplated hereunder and to perform the obligations hereunder according to the terms of this contract.
- (b) It has duly taken all actions and obtained all consents necessary to enable it to enter into this contract and to perform its obligations hereunder and to be bound hereby.
- (c) The person or persons executing or attesting the execution of this contract on behalf of each party has or have been duly authorized and empowered to so execute and attest.
- (d) The execution of this contract on behalf of the party will bind and obligate the party to the extent provided by the terms hereof, and each party represents and warrants that it has no legal basis to avoid any of its obligations hereunder nor will it seek to avoid any such obligations.

(e) Each party acknowledges that the representations and warranties it makes within this agreement are relied upon by the other party in entering into this contract.

(f) This contract is a continuing services agreement for the provision of water whereby the County agrees to pay for water service when rendered by the City.

(g) The charges payable under this contract shall not be deemed to create or constitute an indebtedness or a pledge of the full faith and credit of the Commonwealth of Virginia or of any political subdivision thereof, including the County, for purposes of any constitutional or statutory limitation.

By signing their names below, the persons executing or attesting the execution of this contract represent and warrant that they are duly authorized and empowered to so execute and attest.

IN WITNESS WHEREOF, the City has caused its name to be hereunto signed by its City Manager, and its seal to be hereunto affixed and attested by its Clerk, said action being authorized by Ordinance No. 94-220-199 adopted by the Council of the City of Richmond on the 26th day of September, 1994, and the County has caused its name to be hereunto signed by its County Manager, and its seal to be hereunto affixed and attested by its Clerk, the said action being authorized by a resolution adopted at a duly called meeting of the Henrico County Board of Supervisors on the 28th day of September, 1994.

WITNESS the following signatures and seals:

SEAL

CITY OF RICHMOND, VIRGINIA

By Robert C. Bell  
City Manager

ATTEST

Mildred B. Smith  
Asst. City Clerk

APPROVED AS TO FORM:

Michael J. Sh  
Asst. City Attorney

COUNTY OF HENRICO

By Deirdre L. Hayslett  
County Manager

ATTEST

Martha A. Jexer  
Clerk

APPROVED AS TO FORM:

Joseph P. Campanella, Jr.  
County Attorney

|                               |
|-------------------------------|
| Execution authorized          |
| by Board minutes              |
| # 462-94                      |
| Date 9-28-94                  |
| Initials m j                  |
| APPROVED                      |
| Subscribed <u>[Signature]</u> |
| For <u>AAJ</u>                |
| Signature                     |

a:\Water.k2: updated 9/14/94

**Richmond/Henrico Cost Allocation Study  
Summary of Factors for Contract Negotiations**

July, 1994

| <u>Factor</u> | <u>Name</u>                              | <u>Status</u>  | <u>Minimum Input</u>  | <u>Reference</u>  |
|---------------|--|--|---|---|
| Factor 1      | Joint Costs Classification               | No change  |   |   |
| Factor 2      | Richmond Costs Classification            | No change  |   |   |
| Factor 3      | Contract Costs Classification            | No change  |   |   |
| Factor 4      | Base Cost Classification                 | No change  |   |   |
| Factor 5      | Annual Volume Sendout                    | Changes with<br>Contract volume<br>assumption  | 5,800,000 Ccf<br>15,890 Ccf/day<br>662 Ccf/hour   | Schedule 2, Page 1<br>Lines 1-8                             |
| Factor 6      | Non-Coincident Maximum Day Sendout       | Changes with<br>Contract volume<br>assumption  | 20,000,000 gals<br>26,736 Ccf/day   | Schedule 2, Page 1<br>Lines 12, 22, 28-30                   |
| Factor 7      | Non-Coincident Maximum Hour Sendout      | Changes with<br>Contract volume<br>assumption  | 23,870,108 gals<br>1,330 Ccf/hour   | Schedule 2, Page 2<br>Lines 14, 16, 22, 24-26               |
| Factor 8A     | Coincident Maximum Day Sendout (Joint)   | Changes with<br>Contract volume<br>assumption  | See Factors 5 & 6   | Schedule 2, Page 1<br>Lines 14-16                           |
| Factor 8B     | Richmond Coincident Maximum Day Sendout  | No change  |   |   |
| Factor 9A     | Coincident Maximum Hour Sendout (Joint)  | Changes with<br>Contract volume<br>assumption  | See Factors 5 & 7   | Schedule 2, Page 2<br>Lines 6-8                             |
| Factor 9B     | Richmond Coincident Maximum Hour Sendout | No change  |   |   |
| Factor 10     | Non-Coincident Base Plant (Henrico only) | Changes with<br>Contract volume<br>assumption  | 811 Ccf/hour total capacity<br>572 Ccf/hour extra capacity<br>239 Ccf/hour balance  | Schedule 2, Page 3<br>Lines 7-9                             |
| Factor 11     | Weighted Payroll                         | Changes with<br>Contract volume<br>assumption due<br>to interaction<br>with Factors<br>8A and 9A | 5,800,000 Ccf<br>15,890 Ccf/day<br>662 Ccf/hour<br>20,000,000 gals<br>26,736 Ccf/day<br>23,870,108 gals<br>1,330 Ccf/hour | See Factor 5<br>.<br>See Factor 6<br>.<br>See Factor 7<br>. |

EXHIBIT A-1

**Richmond/Henrico Cost Allocation Study  
Summary of Factors for Contract Negotiations**

**July, 1994**

| <u>Factor</u>               | <u>Name</u>   | <u>Status</u>  | <u>Minimum Input</u>  | <u>Reference</u>   |
|-----------------------------|---|--|---|--|
| Factor 12                   | Services, Plant   | No change  |   |  |
| Factor 13                   | Meters, Plant   | No change  |   |  |
| Factors 14, 15,<br>16, & 17 | O & M Expenses  | Changes with<br>Contract volume<br>assumption due<br>to interaction<br>with Factors<br>8A and 9A | 5,800,000 Ccf<br>15,890 Ccf/day<br>662 Ccf/hour<br>20,000,000 gals<br>26,736 Ccf/day<br>23,870,108 gals<br>1,330 Ccf/hour | See Factor 5<br>"<br>"<br>See Factor 6<br>"<br>See Factor 7<br>" |
| Factor 18                   | Rate Base Richmond                                      | No change  |   |  |
| Factor 19                   | Structures & Improvements, Tanks                        | No change  |   |  |
| Factor 20                   | Pumping Station Structures & Improvements               | No change  |   |  |
| Factor 21                   | Mains & Accessories                                     | No change  |   |  |
| Factor 22                   | Real Estate & Property Taxes                            | Changes with<br>Contract volume<br>assumption due<br>to interaction<br>with Factors<br>8A and 9A | 5,800,000 Ccf<br>15,890 Ccf/day<br>662 Ccf/hour<br>20,000,000 gals<br>26,736 Ccf/day<br>23,870,108 gals<br>1,330 Ccf/hour | See Factor 5<br>"<br>"<br>See Factor 6<br>"<br>See Factor 7<br>" |
| Factor 23                   | Non-Coincident Maximum Day Sendout<br>(Extra Capacity)  | Changes with<br>Contract volume<br>assumption  | 10,846 Ccf/day<br>(See factors 5 & 6)   | Schedule 2, Page 1<br>Line 31                                    |
| Factor 24                   | Non-Coincident Maximum Hour Sendout<br>(Extra Capacity) | Changes with<br>Contract volume<br>assumption  | 668 Ccf/hour<br>(See factors 5 & 7)   | Schedule 2, Page 2<br>Line 27                                    |
| Factor 25                   | Weighted Customers                                      | No change  |   |  |

**Factors Whose Inputs Change Directly  
with Volumetric Assumptions to Henrico County**

**Factor 5: Annual Volume Sendout**

This factor allocates system joint base costs to City and County based on annual volumes; this factor changes since actual volumes are substituted with minimum specified volumes.

Minimum Input: 5,800,000 Ccf, 15,890 Ccf/Day, 662 Ccf/Hr  
(Line 1, Col 3, Sch 2, page 1)

**Factor 6: Non-Coincident Maximum Day Sendout**

This factor allocates joint system peak day costs to City and County based on the non-coincident maximum day sendout between Henrico and the City. This factor changes since we assume that 20,000,000 GD is the Contract non-coincident maximum day.

Minimum Input: 20,000,000 Gallons (line 28 of Sch 2 page 1)  
26,736 Ccf/Day (line 30, of Sch 2 page 1)

**Factor 7: Non-Coincident Maximum Hour Sendout**

This factor allocates joint maximum hour costs based between the City and County based on the non-coincident maximum hour sendout between Henrico and the City. This factor changes since we assume that 23,870,108 GD is the Contract non-coincident maximum hour.

Minimum Input: 23,870,108 Gallons (line 22 of Sch 2 page 2)  
1,330 Ccf/Hr (line 26, of Sch 2 page 2)

**Factor 8A: Coincident Maximum Day Sendout (Joint)**

This factor allocates system joint costs between system joint Base and Maximum Day; this factor is comprised of the City and County maximum and average days; the County maximum and average days have been specified in Factors 6 and 5 respectively.

Minimum Input: See Factors 5 and 6

**Factor 9A: Coincident Maximum Hour Sendout (Joint)**

This factor allocates system joint costs between system Base and Maximum Hour; this factor is comprised of the City and County maximum hours and average day; the County average day and maximum hour amounts have been specified in Factors 5 and 7 respectively.

Minimum Input: See Factors 5 and 7

**Factor 10: Non-Coincident Base Plant (Henrico Only)**

Base Plant: This factor allocates Henrico Maximum Hour Base Plant Contract costs to Henrico Base and Maximum Hour costs. The total costs allocated to Henrico on this factor do not change with changes to Henrico volumes; The split of these costs between Henrico maximum hour and maximum day does change. For the purpose of capturing these changes, the following minimum inputs apply:

Minimum Inputs: 239 Ccf/hour balance  
572 Ccf/hour Extra Capacity  
811 Ccf/hour Total Capacity  
(Lines 7-9 Sch 2, page 3)

**Factor 23: Non-Coincident Maximum Day Sendout (Extra Capacity)**

This factor allocates costs joint maximum day costs between the City and County; The minimum input for the County is 10,846 Ccf/Day which is the difference between the Maximum Day and Average Day minimum sendouts specified for the County in Factors 5 and 6.

Minimum Input: 10,846 Ccf/Day (See Factors 5 and 6)

**Factor 24: Non-Coincident Maximum Hour Sendout (Extra Capacity)**

This factor allocates costs joint maximum hour costs between the City and County; The minimum input for the County is 668 Ccf/Hour which is the difference between the Maximum Hour and Average Hour minimum sendouts specified for the County in Factors 5 and 7.

Minimum Input: 668 Ccf/Hour (See Factors 5 and 7)

### **Factors Whose Inputs Change Partially With Volumetric Assumptions to Henrico County**

The following factors are internally generated. For instance, the inputs for Factor 14, which is based on O&M expenses, are derived from the total allocated O&M costs found on Schedule 5 in the study. These total costs are the result of several allocation factors. With the exception of factors 8A and 9A, the factors used to allocate the costs on Schedule 5 which do not change with changes to Henrico volumes. Therefore, for the purpose of setting minimum volume inputs, the inputs associated with Factors 8A and 9A should be used.

#### **Factors 14, 15, 16, & 17:**

All these factors deal with O&M Expenses. They are calculated directly from the results of Schedule 5 which allocates O&M expenses between joint, City, and Contract based on several factors. With the exception of Factor 8A and 9A, the factors which allocate the O&M costs on Schedule 5 do not change with volumetric assumptions to Henrico. However, the O&M costs classified by Factors 8A & 9A will change; these changes will be picked up on Schedule 5 and input into the derivation of Factors 14, 15, 16, 17. Therefore, the minimum input values for these factors are the minimum inputs to Factors 8A and 9A:

#### **Minimum Input Values:**

Factor 9A: Established through the minimum inputs to Factors 5 and 7:

Factor 5: 5,800,000 Ccf, 15,890 Ccf/Day

Factor 7: 23,870,108 MGD

Factor 8A: Established through the minimum inputs to Factors 5 and 6:

Factor 5: 5,800,000 Ccf, 15,890 Ccf/Day

Factor 6: 20,000,000 MGD, 26,736 Ccf/Day

#### **Factors 11 and 22:**

These factors are calculated also directly from the results of cost allocations in the study. These cost allocations are based mostly on allocation factors which do not change with the change in volumetric assumptions to Henrico County.

#### ***Factor 11, Weighted Payroll:***

This factor is calculated from the allocation of Social Security Taxes found on the total line of Schedule 8. The only factors which change that make up the derivation of these totals are classification Factors 8A and 9A. Therefore the minimum inputs are those specified in 8A and 9A and shown below:

**Minimum Input Values:**

**Factor 9A:** Established through the minimum inputs to Factors 5 and 7:

Factor 5: 5,800,000 Ccf, 15,890 Ccf/Day

Factor 7: 23,870,108 MGD

**Factor 8A:** Established through the minimum inputs to Factors 5 and 6:

Factor 5: 5,800,000 Ccf, 15,890 Ccf/Day

Factor 6: 20,000,000 MGD, 26,736 Ccf/Day

***Factor 22, Real Estate and Property Taxes:***

This factor is calculated from the allocation of Real Estate and Personal Property Taxes found on the total line of Schedule 7. The only factors which change that make up the derivation of these totals are Factors 8A and 9A. Therefore the minimum inputs are those specified in 8A and 9A and shown above.

**Factors Which Do Not Change With  
Volumetric Assumptions Changes to Henrico**

Factor 1: Joint Costs Classification  
Factor 2: Richmond Costs Classification  
Factor 3: Contract Costs Classification  
Factor 4: Base Costs  
Factor 8B: Richmond Coincident Maximum Day Sendout  
Factor 9B: Richmond Coincident Maximum Hour Sendout  
Factor 12: Services, Plant  
Factor 13: Meters, Plant  
Factor 18: Rate Base Richmond  
Factor 19: Structures & Improvements, Tanks  
Factor 20: Pumping Station Structures & Improvements  
Factor 21: Mains & Accessories  
Factor 25: Weighted Customers

# Regional Water Advisory Group

## Concept Paper

**Charge:** Develop and lead implementation of a shared strategy to sustain and strengthen Central Virginia's safe, secure, and reliable drinking water systems. The advisory group will focus on enhancing redundancies and sharing risks, costs, and oversight responsibilities to the benefit of the residents of all participating localities.

**Participating Localities** (invited): City of Richmond, Henrico County, Hanover County, Chesterfield County

**Representatives** (subject to consensus):

- City of Richmond: Mayor; Chief Administrative Officer; one City Council representative; one staff member with subject matter expertise
- Henrico County: County executive; one Board of Supervisors member; one staff member with subject matter expertise
- Hanover County: County executive; one Board of Supervisors member; one staff member with subject matter expertise
- Chesterfield County: County executive; one Board of Supervisors member; one staff member with subject matter expertise

**Additional staff:** Each jurisdiction can include additional staff to attend and provide support to operations of the advisory group, including legal and financial advisors.

**Regulatory partners consulted as neutral parties:** Virginia Department of Environmental Quality and Virginia Department of Health

**Primary Question:** What is the best shared path forward to achieve the goals described in the charge? How can this path be formalized, in the form of a cooperative arrangement, among the localities?

The advisory group should explore various options, grouped broadly into

- (a) Possibilities for enhanced cooperation within the existing structural framework
- (b) Possibilities for enhanced cooperation that would require alteration to the existing structural framework, requiring legislation

**Critical issues to be discussed:**

1. Facilities or interconnections to be included in cooperative arrangement
2. Operational functioning of facilities falling under the cooperative arrangement (to assure safe, continual service)

3. Financial models for cooperative arrangement—operating costs, capital costs and debt management
4. Review and enhance existing cooperative arrangements on water conservation and sustainability
5. Review and enhance existing governance models for regional water facilities

### **Process**

- Initial group meeting of participating localities to affirm the charge and reach agreement on scope, cost sharing, and timeline of advisory group work.
- Establish one or more work groups of subject matter experts from each locality (“think tanks”) to explore issues 1-5 noted above, conduct research, present preliminary recommendations to the advisory group for feedback, and revise recommendations on the basis of initial feedback and ongoing deliberation. Third-party facilitation of those discussions may be utilized.
- Development of at least one viable cooperative agreement concept, to include detailed stipulation of steps required for implementation.
- Deliberation on the proposal(s); discussion of any required amendments to proposal; and agreement to support final proposal. The advisory group will strive to achieve full consensus on its final recommendation and produce a final report detailing the major recommendations and their rationale.
- The work groups will meet no less than once per month. The full advisory group will meet every other month.

### **Proposed Timeline**

- Convene full advisory group July 2025; form work group(s) (“think tank”)
- Preliminary recommendations from work group(s) presented at November 2025 meeting
- Revised recommendations presented at January 2026 meeting
- Final agreed recommendations at March 2026 meeting
- Submit for adoption by jurisdictions by May 2026
- To take effect July 1, 2026

*Note: some proposed changes may require legislative approval by the governing body of each locality. Some also may potentially require approval by a voter referendum. To this extent this is the case, the timeline for adoption and implementation of recommendations will require adjustment.*



OFFICE OF  
**THE MAYOR**

June 19, 2025

Dear Chesterfield, Hanover, and Henrico Colleagues,

Today, I invite you to join me in taking a critical step toward developing a shared regional strategy for sustaining and strengthening our drinking water system. I believe that, together, we can build something that benefits our entire region.

The events of the last six months have underscored that our region is deeply connected. Across the region, we're facing many unique and complex challenges, each demanding our time and resources. However, access to reliable, clean, and safe drinking water is absolutely critical and deserves our focused attention.

I am inviting you to join me in launching a new regional water advisory group. This group, building on previous conversations, will explore shared strategies to strengthen our region's drinking water systems. Specifically, the group will work on plans to address:

- Facilities and operations
- Shared risk, cost, and oversight
- Financial planning and accelerating capital investment
- Governance

These are complex topics, and I fully anticipate long, hard conversations as we sort through the details. My staff will reach out with some kick-off meeting dates soon, most likely in July. I expect work groups with subject matter experts will convene over the summer and fall.

I've also attached two documents to give us a starting place. First, you'll find a draft concept paper outlining the structure, purpose, and process for our collaboration, but I look forward to the creative ideas and deep experience you all will bring to the table. Second, I've attached a proposed MOA from Director Scott Morris, which outlines how we can immediately recommit to our current operating agreements in a renewed spirit of collaboration and communication to give everyone some reassurance as we chart the longer-term solutions.

This is an urgent challenge, but I also believe it is a unique regional opportunity. Together we must seize this moment and build something new that, quite literally, connects our region together in a way that makes us stronger for generations. I know that with your commitment, your expertise, and your leadership, together, we can find that shared path forward.

Sincerely,

Danny TK Avula MD, MPH  
Mayor  
City of Richmond

RICHMOND REGIONAL WATER SUPPLY:  
***RECENT CHALLENGES & OPPORTUNITIES FOR COLLABORATION***  
JUNE 11, 2025

**A. Review of Challenges and VDH's Response**

1. January Outage
  - a. Challenge: Power Loss / Plant Flooding / Extended Outage / Boil Water Advisory
  - b. VDH Response
    - i. SEH Engineering Report = \$64M Repairs, Plus Operational Improvements Needed
    - ii. 2 VDH NOAVs → Likely VDH Enforcement Action (Consent or Unilateral Order)
2. April Fluoride Incident
  - a. Challenge: Fluoride Tank Installation / Operational Error Releases More Fluoride Than Intended
  - b. VDH Response:
    - i. May 12 NOAV (#3)
    - ii. Possibly Further VDH Enforcement Action (Consent or Unilateral Order Likely)
3. May 27-29 Boil Water Advisory for Much of City (Fortunately Did Not Reach Counties)
  - a. Challenge: Plate Settler Cleaning Deferred → Filters Clogged → Reduced Water Production; Water Production Down; Reduced Pressure at Ginter Park Tank Affected Large Portion of City
  - b. VDH Response: TBD / Pending
4. May 29-June 23 Canal Street Water Valve / Break Service Interruption
  - a. Challenge: Major Line Break Limiting Water Deliveries by City to Church Hill Tank
  - b. Henrico: Pressure Reduction / Potential for Service Distribution; Emergency Response/Mgmt by County; Bottled Water Distribution
  - c. VDH Response: TBD

**B. Why Regions Collaborate on Public Water Systems**

1. Financial
  - a. Economies of Scale with Infrastructure: Reservoirs, WTPs, Pipelines (Raw & Finished)
  - b. Efficiencies: Management, Operations, Planning, Purchasing
2. Infrastructure Benefits
  - a. Source Water Access & Development
  - b. Redundancy / Reliability (Multiple Sources, Plants & Pipes)
3. Operational Benefits
  - a. Managerial Resources & Competency
  - b. Technical & Operational Resources & Competency

**C. Examples of How Other Regions Have Collaborated**

1. Mutual Aid Between Utilities Based on Needs at the Moment

- a. Ex: Informal (Counties' Recent Support of Richmond WTP)
  - b. Ex: Water Agency Response Network (VA WARN)
- 2. Water Contracts: By Definition Customizable to Meet Individual Needs
  - a. From Simple Water Sales to More Comprehensive Coordination & Collaboration
  - b. Ex: Current Richmond WTP Water → Henrico and Hanover Distribution Systems
  - c. Ex: Va Bch's Lake Gaston Water – Piped to Norfolk WTP – Finished Piped to Va Bch
  - d. Ex: Norfolk's Western Branch Reservoir Pump Station with Pumps Installed for Raw Water Sale and Conveyance to Suffolk WTP
- 3. Oversight Commission: Promotes Shared Decision Making (Could Combine/Embed with Contract)
  - a. Committee with a Defined Role for Overseeing Facilities, Projects, Operations
  - b. Ex: Existing limited CIP review process
  - c. Ex: A more engaged process such as the City of Hopewell Water Renewal Commission
    - i. Comprised of 6 Representatives of Major Customers & 3 City Representatives
    - ii. "The commission shall help and assist in the planning and construction of the facility. The commission shall exercise full authority and responsibility in the operation, maintenance, improvement and repair of the facility, subject, however, to overrule of any of its actions by the city council. The commission shall have such further duties as the city council may from time to time direct."
- 4. Regional Water Authorities: Broad Spectrum of Approaches Used in Virginia
  - a. Full Retail Water Authority: Western Virginia Water Authority ("recent" 2004 Roanoke City-County combination)
  - b. Wholesale-Only Water Authority: Appomattox River Water Authority owns and operates regional WTP serving cities of Petersburg and Colonial Heights and counties of Chesterfield, Dinwiddie, and Prince George
  - c. "Authority Light": Western Tidewater Water Authority: With Member Suffolk owning and operating WTP to supply the Authority with finished water to serve Isle of Wight County

Capital Improvement Program Five Year Summary FY26 through FY30  
 Department Requests by Fiscal Year and Priority Number - Enterprise Fund - Fund 51

| Project   | Priority | Source          | Recommended FY26 | FY26 Request | FY27 Request | FY28 Request | FY29 Request | FY30 Request | Total Five Year | Beyond FY30 |
|---|----------|-----------------|------------------|--------------|--------------|--------------|--------------|--------------|-----------------|-------------|
| <b>Public Utilities - Sewer</b>                           |          |                 |                  |              |              |              |              |              |                 |             |
| 00782 Sewer Connections                                   | 1        | Enterprise Fund | 500,000          | 500,000      | 500,000      | 500,000      | 500,000      | 500,000      | 2,500,000       | 2,500,000   |
| 00772 Sewer Line Extensions                               | 2        | Enterprise Fund | 1,000,000        | 1,000,000    | 1,000,000    | 1,000,000    | 1,000,000    | 1,000,000    | 5,000,000       | 5,000,000   |
| 00732 Sewer Line Rehabilitation                           | 3        | Enterprise Fund | 5,000,000        | 5,000,000    | 5,000,000    | 5,000,000    | 7,000,000    | 5,000,000    | 27,000,000      | 25,000,000  |
| 00743 Sewer Pump Station Improvements                     | 4        | Enterprise Fund | 6,500,000        | 6,500,000    | 6,500,000    | 6,500,000    | 2,000,000    | 2,000,000    | 23,500,000      | 10,000,000  |
| 00737 Sewer Relocations, Adjustments and Xings            | 5        | Enterprise Fund | 200,000          | 200,000      | 200,000      | 200,000      | 200,000      | 200,000      | 1,000,000       | 1,000,000   |
| 00725 Plan Review and Inspection                          | 6        | Enterprise Fund | 2,500,000        | 2,500,000    | 2,500,000    | 2,500,000    | 2,500,000    | 2,500,000    | 12,500,000      | 12,500,000  |
| 08172 Water Reclamation Facility Improvements             | 7        | Enterprise Fund | 5,000,000        | 5,000,000    | 5,000,000    | 5,000,000    | 3,000,000    | 3,000,000    | 26,000,000      | 19,000,000  |
| 01076 Sewer Sub-basin Area Wide Sewer Rehabilitation      | 8        | Enterprise Fund | 8,000,000        | 8,000,000    | 8,000,000    | 8,000,000    | 8,000,000    | 8,000,000    | 40,000,000      | 67,000,000  |
| 09572 Shovel Ready Henrico Fund                           | 9        | Enterprise Fund | 5,000,000        | 5,000,000    | 5,000,000    | 5,000,000    | 5,000,000    | 5,000,000    | 25,000,000      | 25,000,000  |
| NEW Program Management Assistance                         | 10       | Enterprise Fund | 1,000,000        | 1,000,000    | 1,000,000    | 1,000,000    | 1,000,000    | 1,000,000    | 5,000,000       | 5,000,000   |
| 06666 Horsepen Branch Trunk Sewer                         | 11       | Enterprise Fund | 10,000,000       | 10,000,000   | 10,000,000   | 10,000,000   | 10,000,000   | 10,000,000   | 50,000,000      | 50,000,000  |
| 06449 White Oak SPS Improvements                          | 12       | Enterprise Fund | 10,000,000       | 10,000,000   | 10,000,000   | 10,000,000   | 10,000,000   | 10,000,000   | 50,000,000      | 50,000,000  |
| 09703 New Market & Buffin Road Force Main Phase 2         | 13       | Enterprise Fund | 16,000,000       | 16,000,000   | 16,000,000   | 16,000,000   | 16,000,000   | 16,000,000   | 80,000,000      | 80,000,000  |
| NEW New Market Force Main Odor Control Facility           | 14       | Enterprise Fund | 2,500,000        | 2,500,000    | 2,500,000    | 2,500,000    | 2,500,000    | 2,500,000    | 12,500,000      | 12,500,000  |
| NEW Water Reclamation Facility Flow Equalization Facility | 15       | Enterprise Fund | 6,000,000        | 6,000,000    | 6,000,000    | 6,000,000    | 48,000,000   | 6,000,000    | 66,000,000      | 53,000,000  |
| 07027 Deep Run Outfall                                    | 16       | Enterprise Fund | 18,000,000       | 18,000,000   | 18,000,000   | 18,000,000   | 18,000,000   | 18,000,000   | 90,000,000      | 90,000,000  |
| 07026 Rooty Branch SPS Replacement                        | 17       | Enterprise Fund | 14,000,000       | 14,000,000   | 14,000,000   | 14,000,000   | 14,000,000   | 14,000,000   | 70,000,000      | 70,000,000  |
| 07028 Rooty Branch Force Main                             | 18       | Enterprise Fund | 1,000,000        | 1,000,000    | 1,000,000    | 1,000,000    | 1,000,000    | 1,000,000    | 5,000,000       | 5,000,000   |
| 06155 Almond Creek Trunk Sewer Line                       | 19       | Enterprise Fund | 600,000          | 600,000      | 600,000      | 600,000      | 3,246,000    | 600,000      | 5,052,000       | 3,846,000   |
| 06154 North Run Trunk Sewer                               | 20       | Enterprise Fund | 7,000,000        | 7,000,000    | 7,000,000    | 7,000,000    | 38,000,000   | 7,000,000    | 56,000,000      | 45,000,000  |
| 06158 Hungary Creek Trunk Sewer                           | 21       | Enterprise Fund | 6,000,000        | 6,000,000    | 6,000,000    | 6,000,000    | 32,000,000   | 6,000,000    | 46,000,000      | 38,000,000  |
| 06838 Allen's Branch and Rooty Branch Force Main          | 22       | Enterprise Fund | 12,000,000       | 12,000,000   | 12,000,000   | 12,000,000   | 22,000,000   | 12,000,000   | 50,000,000      | 27,500,000  |
| 06667 Tuckahoe Creek Trunk Sewer Rehabilitation           | 23       | Enterprise Fund | 5,500,000        | 5,500,000    | 5,500,000    | 5,500,000    | 5,500,000    | 30,000,000   | 35,000,000      | 35,000,000  |
| NEW Gillies Creek FM Improvements                         | 24       | Enterprise Fund | 7,500,000        | 7,500,000    | 7,500,000    | 7,500,000    | 7,500,000    | 16,000,000   | 46,000,000      | 16,000,000  |
| 07029 Gillies Creek SPS Flow Equalization Basin           | 25       | Enterprise Fund | 111,800,000      | 111,800,000  | 87,946,000   | 83,706,000   | 125,200,000  | 74,700,000   | 482,846,000     | 220,000,000 |
| 06152 Gambles Mill SPS FEB & Emergency Generator          | 26       | Enterprise Fund | 300,000          | 300,000      | 300,000      | 300,000      | 300,000      | 300,000      | 1,500,000       | 1,500,000   |
| <b>Public Utilities - Water</b>                           |          |                 |                  |              |              |              |              |              |                 |             |
| 00771 Water Connections                                   | 1        | Enterprise Fund | 600,000          | 600,000      | 600,000      | 600,000      | 600,000      | 600,000      | 3,000,000       | 3,000,000   |
| 00770 Water Line Extension                                | 2        | Enterprise Fund | 5,000,000        | 5,000,000    | 5,000,000    | 5,000,000    | 6,000,000    | 7,000,000    | 28,000,000      | 44,000,000  |
| 00768 Water Line Rehabilitation                           | 3        | Enterprise Fund | 2,500,000        | 2,500,000    | 2,500,000    | 2,500,000    | 1,000,000    | 1,000,000    | 6,500,000       | 5,000,000   |
| 00769 Water Pumping Station Improvements                  | 4        | Enterprise Fund | 400,000          | 400,000      | 400,000      | 400,000      | 200,000      | 200,000      | 1,400,000       | 1,000,000   |
| 00767 Water Relocations, Adjustments and Xings            | 5        | Enterprise Fund | 1,300,000        | 1,300,000    | 1,300,000    | 1,300,000    | 1,300,000    | 1,300,000    | 6,500,000       | 6,500,000   |
| 00780 Water Meters  | 6        | Enterprise Fund | 2,000,000        | 2,000,000    | 2,000,000    | 2,000,000    | 2,000,000    | 2,000,000    | 10,000,000      | 12,000,000  |
| 08171 Water Treatment Facility Improvements               | 7        | Enterprise Fund | 5,000,000        | 5,000,000    | 5,000,000    | 5,000,000    | 5,000,000    | 5,000,000    | 25,000,000      | 50,000,000  |
| NEW Lead and Copper Program                               | 8        | Enterprise Fund | 50,000,000       | 50,000,000   | 50,000,000   | 50,000,000   | 50,000,000   | 50,000,000   | 250,000,000     | 50,000,000  |
| NEW Eastern Water Transmission Main - Long Term Option    | 9        | Enterprise Fund | 750,000          | 750,000      | 750,000      | 750,000      | 750,000      | 750,000      | 3,750,000       | 3,750,000   |
| 09706 Bethlehem Road Water and Sewer                      | 10       | Enterprise Fund | 1,000,000        | 1,000,000    | 1,000,000    | 1,000,000    | 1,000,000    | 1,000,000    | 5,000,000       | 5,000,000   |
| 06121 Technology Boulevard 24" Water Main                 | 11       | Enterprise Fund | 2,200,000        | 2,200,000    | 2,200,000    | 2,200,000    | 2,200,000    | 2,200,000    | 11,000,000      | 11,000,000  |
| 06124 Williamsburg Road 24" Water Main                    | 12       | Enterprise Fund | 2,500,000        | 2,500,000    | 2,500,000    | 2,500,000    | 2,500,000    | 2,500,000    | 12,500,000      | 12,500,000  |
| NEW Memorial Drive 30" Water Main                         | 13       | Enterprise Fund | 4,000,000        | 4,000,000    | 4,000,000    | 4,000,000    | 4,000,000    | 4,000,000    | 20,000,000      | 20,000,000  |
| 08556 Old Williamsburg Water Pumping Station              | 14       | Enterprise Fund | 4,000,000        | 4,000,000    | 4,000,000    | 4,000,000    | 4,000,000    | 4,000,000    | 20,000,000      | 20,000,000  |
| 09704 Richmond Henrico Water Main                         | 15       | Enterprise Fund | 600,000          | 600,000      | 600,000      | 600,000      | 600,000      | 600,000      | 3,000,000       | 3,000,000   |
| 09705 Three Chopt Road Water Main Improvements            | 16       | Enterprise Fund | 3,100,000        | 3,100,000    | 3,100,000    | 3,100,000    | 3,100,000    | 3,100,000    | 15,500,000      | 15,500,000  |
| NEW Magellan Parkway Water Main Improvements              | 17       | Enterprise Fund | 1,000,000        | 1,000,000    | 1,000,000    | 1,000,000    | 1,000,000    | 1,000,000    | 5,000,000       | 5,000,000   |
| NEW Water and Sewer Infill Program                        | 18       | Enterprise Fund | 1,000,000        | 1,000,000    | 1,000,000    | 1,000,000    | 1,000,000    | 1,000,000    | 5,000,000       | 5,000,000   |
| 06618 Sadler Road 12" Water Line                          | 19       | Enterprise Fund | 3,500,000        | 3,500,000    | 3,500,000    | 3,500,000    | 3,500,000    | 3,500,000    | 17,500,000      | 17,500,000  |
| 06615 Ridge Water Pressure Zone                           | 20       | Enterprise Fund | 4,000,000        | 4,000,000    | 4,000,000    | 4,000,000    | 4,000,000    | 4,000,000    | 20,000,000      | 20,000,000  |
| 08162 Woodman Road Water Main                             | 21       | Enterprise Fund | 86,250,000       | 86,250,000   | 62,400,000   | 66,400,000   | 69,900,000   | 68,400,000   | 353,350,000     | 136,000,000 |
| <b>Department Subtotal</b>                                |          |                 |                  |              |              |              |              |              |                 |             |
|   |          |                 | 111,800,000      | 111,800,000  | 87,946,000   | 83,706,000   | 125,200,000  | 74,700,000   | 482,846,000     | 220,000,000 |
| <b>Grand Total - Enterprise W/S Fund</b>                  |          |                 |                  |              |              |              |              |              |                 |             |
|   |          |                 | 198,050,000      | 198,050,000  | 150,346,000  | 150,100,000  | 195,100,000  | 142,600,000  | 836,196,000     | 356,000,000 |

\*See Note Below

\*NOTE: Eastern Water Transmission Main Project has been a part of previous CIPs and Facilities Planning. Project was placed in outer years due to long-term contract with the City of Richmond.

# Capital Improvement Program Five Year Summary FY26 through FY35

## Capital Projects Fund - Department Requests by Fiscal Year and Priority Number

### Public Utilities

|                          |   |          | Recommended | Request     | Request    | Request    | Request     | Request    | Request     | Total       |
|--------------------------|---|----------|-------------|-------------|------------|------------|-------------|------------|-------------|-------------|
| Project                  |   | Priority | FY26        | FY26        | FY27       | FY28       | FY29        | FY30       | FY31-FY35   | Ten Year    |
| Public Utilities - Sewer |   |          |             |             |            |            |             |            |             |             |
| 00782                    | Sewer Connections                                     | 1        | 500,000     | 500,000     | 500,000    | 500,000    | 500,000     | 500,000    | 2,500,000   | 5,000,000   |
| 00772                    | Sewer Line Extensions                                 | 2        | 1,000,000   | 1,000,000   | 1,000,000  | 1,000,000  | 1,000,000   | 1,000,000  | 5,000,000   | 10,000,000  |
| 00732                    | Sewer Line Rehabilitation                             | 3        | 5,000,000   | 5,000,000   | 5,000,000  | 5,000,000  | 7,000,000   | 5,000,000  | 25,000,000  | 52,000,000  |
| 00743                    | Sewer Pump Station Improvements                       | 4        | 6,500,000   | 6,500,000   | 6,500,000  | 6,500,000  | 2,000,000   | 2,000,000  | 10,000,000  | 33,500,000  |
| 00737                    | Sewer Relocations, Adjustments and Xings              | 5        | 200,000     | 200,000     | 200,000    | 200,000    | 200,000     | 200,000    | 1,000,000   | 2,000,000   |
| 00725                    | Plan Review and Inspection                            | 6        | 2,500,000   | 2,500,000   | 2,500,000  | 2,500,000  | 2,500,000   | 2,500,000  | 12,500,000  | 25,000,000  |
| 08172                    | Water Reclamation Facility Improvements               | 7        | 5,000,000   | 5,000,000   | 6,000,000  | 6,000,000  | 6,000,000   | 3,000,000  | 19,000,000  | 45,000,000  |
| 01076                    | Sewer Sub-basin Area Wide Sewer Rehabilitation        | 8        | 8,000,000   | 8,000,000   | 8,000,000  | 8,000,000  | 8,000,000   | 8,000,000  | 67,000,000  | 107,000,000 |
| 09572                    | Shovel Ready Henrico Fund                             | 9        | 5,000,000   | 5,000,000   | 5,000,000  | 5,000,000  | 5,000,000   | 5,000,000  | 25,000,000  | 50,000,000  |
| NEW                      | Program Management Assistance                         | 10       | 1,000,000   | 1,000,000   | 1,000,000  | 1,000,000  | 1,000,000   | 1,000,000  | -           | 5,000,000   |
| 06666                    | Horsepen Branch Trunk Sewer                           | 11       | 10,000,000  | 10,000,000  | -          | -          | -           | -          | -           | 10,000,000  |
| 06449                    | White Oak SPS Improvements                            | 12       | 10,000,000  | 10,000,000  | -          | -          | -           | -          | -           | 10,000,000  |
| 09703                    | New Market & Buffin Road Force Main Phase 2           | 13       | 16,000,000  | 16,000,000  | -          | -          | -           | -          | -           | 16,000,000  |
| NEW                      | New Market Force Main Odor Control Facility           | 14       | 2,500,000   | 2,500,000   | -          | -          | -           | -          | -           | 2,500,000   |
| NEW                      | Water Reclamation Facility Flow Equalization Facility | 15       | 6,000,000   | 6,000,000   | -          | 48,000,000 | -           | -          | 53,000,000  | 107,000,000 |
| 07027                    | Deep Run Outfall                                      | 16       | 18,000,000  | 18,000,000  | -          | -          | -           | -          | -           | 18,000,000  |
| 07026                    | Rooty Branch SPS Replacement                          | 17       | -           | -           | 14,000,000 | -          | -           | -          | -           | 14,000,000  |
| 07028                    | Rooty Branch Force Main                               | 18       | 1,000,000   | 1,000,000   | 5,000,000  | -          | -           | -          | -           | 6,000,000   |
| 06155                    | Almond Creek Trunk Sewer Line                         | 19       | 600,000     | 600,000     | 3,246,000  | -          | -           | -          | -           | 3,846,000   |
| 06154                    | North Run Trunk Sewer                                 | 20       | 7,000,000   | 7,000,000   | -          | -          | 38,000,000  | -          | -           | 45,000,000  |
| 06158                    | Hungary Creek Trunk Sewer                             | 21       | 6,000,000   | 6,000,000   | -          | -          | 32,000,000  | -          | -           | 38,000,000  |
| 06838                    | Allen's Branch and Rooty Branch Force Main            | 22       | -           | -           | 12,000,000 | -          | -           | -          | -           | 12,000,000  |
| 06667                    | Tuckahoe Creek Trunk Sewer Rehabilitation             | 23       | -           | -           | 5,500,000  | -          | 22,000,000  | -          | -           | 27,500,000  |
| NEW                      | Gillies Creek FM Improvements                         | 24       | -           | -           | 5,000,000  | -          | -           | 30,000,000 | -           | 35,000,000  |
| 07029                    | Gillies Creek SPS Flow Equalization Basin             | 25       | -           | -           | 7,500,000  | -          | -           | -          | -           | 7,500,000   |
| 06152                    | Gambles Mill SPS FEB & Emergency Generator            | 26       | -           | -           | -          | -          | -           | 16,000,000 | -           | 16,000,000  |
| Department Subtotal      |   |          | 111,800,000 | 111,800,000 | 87,946,000 | 83,700,000 | 125,200,000 | 74,200,000 | 220,000,000 | 702,846,000 |

## Sewer Connections – 00782

|   |  |                                       |
|---|--|---------------------------------------|
| <b>Department</b><br>Public Utilities     | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>Countywide |
| <b>Magisterial District</b><br>Countywide | <b>Project Classification</b><br>Sewer   | <b>Project Type</b><br>Recurring      |

**Project Description:**

Design and construct sewer service connections for new customers requesting to connect to existing sewer mains.

**Service Impact:**

This project provides the installation of sewer service connections for owner occupied homes on existing parcels to address the demands of growth and development of Henrico County.

**Operating Impacts:**

There are no fiscal operating impacts associated with this project.

**Project Milestones:**

- FY25 funding for this project was \$375,000.

**Project Cost Breakdown/Operating Budget Impacts**

| Project Breakdown               | Prior Years       | FY26              | FY27              | FY28              | FY29              | FY30              | Beyond FY30         | Total FY26-35       |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|
| Planning & Design               | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Land                            | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Offsite Improvements/Utilities  | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Construction                    | \$ 375,000        | \$ 500,000        | \$ 500,000        | \$ 500,000        | \$ 500,000        | \$ 500,000        | \$ 2,500,000        | \$ 5,000,000        |
| Other                           | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| FFE                             | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| <b>Total</b>                    | <b>\$ 375,000</b> | <b>\$ 500,000</b> | <b>\$ 500,000</b> | <b>\$ 500,000</b> | <b>\$ 500,000</b> | <b>\$ 500,000</b> | <b>\$ 2,500,000</b> | <b>\$ 5,000,000</b> |
| <b>Operating Budget Impacts</b> |                   |                   |                   |                   |                   |                   |                     |                     |
| Personnel (incremental)         | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Operating (incremental)         | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>         | <b>\$ -</b>         |

## Sewer Line Extensions – 00772

|                             |                               |                         |
|-----------------------------|-------------------------------|-------------------------|
| <b>Department</b>           | <b>Funding Source</b>         | <b>Project Location</b> |
| Public Utilities            | Enterprise Fund               | Countywide              |
| <b>Magisterial District</b> | <b>Project Classification</b> | <b>Project Type</b>     |
| Countywide                  | Water                         | Recurring               |

### Project Description:

Design and construct sewer main extensions from the existing system to serve owner occupied single-family residences.

### Service Impact:

Installation of sewer main extensions for owner occupied homes to provide sewer service to new customers to address demands of growth and development of the County.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- FY25 funding for this project was \$1,000,000.

### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years        | FY26                | FY27                | FY28                | FY29                | FY30                | Beyond FY30         | Total FY26-35        |
|---------------------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Planning & Design               | \$ 100,000         | \$ 100,000.00       | \$ 100,000          | \$ 100,000          | \$ 100,000          | \$ 100,000          | \$ 500,000          | \$ 1,000,000         |
| Land                            | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| Offsite Improvements/Utilities  | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| Construction                    | \$ 900,000         | \$ 900,000.00       | \$ 900,000          | \$ 900,000          | \$ 900,000          | \$ 900,000          | \$ 4,500,000        | \$ 9,000,000         |
| Other                           | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| FFE                             | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| <b>Total</b>                    | <b>\$1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 10,000,000</b> |
| <b>Operating Budget Impacts</b> |                    |                     |                     |                     |                     |                     |                     |                      |
| Personnel (incremental)         | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| Operating (incremental)         | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| Capital (incremental)           | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b>        | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>          |

## Sewer Line Rehabilitation – 00732

|   |  |                                       |
|---|--|---------------------------------------|
| <b>Department</b><br>Public Utilities     | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>Countywide |
| <b>Magisterial District</b><br>Countywide | <b>Project Classification</b><br>Sewer   | <b>Project Type</b><br>Recurring      |

### Project Description:

This project provides funding to rehabilitate or replace deteriorated sewer mains. The design and construction of individual sewer line projects are included. The need for these individual projects is determined through the department's wet weather flow program, TV inspection program, sewer main cleaning program, and work orders.

### Service Impact:

This project allows the County to maintain proper sewer lines and improve the delivery of service by updating old and outdated sewer mains.

### Operating Impact:

There are no operating fiscal impacts associated with this project.

### Project Milestones:

- FY25 funding for this project was \$5,000,000.

| Project Cost Breakdown/Operating Budget Impacts |                     |                     |                     |                     |                     |                     |                      |               |                   |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|---------------|-------------------|
| Project Breakdown                               | Prior Years         | FY26                | FY27                | FY28                | FY29                | FY30                | Beyond FY30          | Total FY26-35 |                   |
| Planning & Design                               | \$ 1,000,000        | \$ 1,000,000        | \$ 1,000,000        | \$ 1,000,000        | \$ 1,000,000        | \$ 1,000,000        | \$ 5,000,000         | \$            | 10,000,000        |
| Land  | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$            | -                 |
| Offsite Improvements/Utilities                  | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$            | -                 |
| Construction                                    | \$ 4,000,000        | \$ 4,000,000        | \$ 4,000,000        | \$ 4,000,000        | \$ 6,000,000        | \$ 4,000,000        | \$ 20,000,000        | \$            | 42,000,000        |
| Other   | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$            | -                 |
| FFE   | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$            | -                 |
| <b>Total</b>                                    | <b>\$ 5,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 7,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 25,000,000</b> | <b>\$</b>     | <b>52,000,000</b> |
| <b>Operating Budget Impacts</b>                 |                     |                     |                     |                     |                     |                     |                      |               |                   |
| Personnel (incremental)                         | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$            | -                 |
| Operating (incremental)                         | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$            | -                 |
| <b>Total Operating Impact</b>                   | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$</b>     | <b>-</b>          |

## Sewer Pump Station Improvements – 00743

|                             |                               |                         |
|-----------------------------|-------------------------------|-------------------------|
| <b>Department</b>           | <b>Funding Source</b>         | <b>Project Location</b> |
| Public Utilities            | Enterprise Fund               | Countywide              |
| <b>Magisterial District</b> | <b>Project Classification</b> | <b>Project Type</b>     |
| Countywide                  | Sewer                         | Recurring               |

### Project Description:

Design and construct improvements and major repairs necessary to upgrade and maintain Sewage Pumping Stations (SPS).

Work in FY26 will advertise for construction of the Strawberry Hill SPS upgrades and design Holladay Branch SPS upgrades for construction in FY27.

### Service Impact:

This project provides necessary resources to improve the delivery of existing services.

### Operating Impact:

There are no operating fiscal impacts associated with this project.

### Project Milestones:

- FY25 funding for this project was \$2,500,000.

### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years        | FY26                | FY27                | FY28                | FY29                | FY30                | Beyond FY30          | Total FY26-35        |
|---------------------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|
| Planning & Design               | \$ -               | \$ 1,000,000        | \$ 1,000,000        | \$ 1,000,000        | \$ 1,000,000        | \$ 1,000,000        | \$ 5,000,000         | \$ 10,000,000        |
| Land                            | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Offsite Improvements/Utilities  | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Construction                    | \$2,500,000        | \$ 5,500,000        | \$ 5,500,000        | \$ 5,500,000        | \$ 1,000,000        | \$ 1,000,000        | \$ 5,000,000         | \$ 23,500,000        |
| Other                           | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| FFE                             | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| <b>Total</b>                    | <b>\$2,500,000</b> | <b>\$ 6,500,000</b> | <b>\$ 6,500,000</b> | <b>\$ 6,500,000</b> | <b>\$ 2,000,000</b> | <b>\$ 2,000,000</b> | <b>\$ 10,000,000</b> | <b>\$ 33,500,000</b> |
| <b>Operating Budget Impacts</b> |                    |                     |                     |                     |                     |                     |                      |                      |
| Personnel (incremental)         | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Operating (incremental)         | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Capital (incremental)           | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b>        | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b>          |

## Sewer Relocations Adjustments and Crossings – 00737

**Department**  
Public Utilities  
**Magisterial District**  
Countywide

**Funding Source**  
Enterprise Fund  
**Project Classification**  
Sewer

**Project Location**  
Countywide  
**Project Type**  
Recurring

### Project Description:

This project adjusts existing sewer lines and extends new sewer lines necessary for coordination with road and drainage projects. The recurring project covers the design and construction of sewer relocations, adjustments, and crossings that are part of the County and State Road projects and County drainage projects.

### Service Impact:

This project seeks to improve the delivery of existing services by providing necessary sewer main adjustments or relocations based on various Public Works and Virginia Department of Transportation projects.

### Operating Impact:

There are no operating fiscal impacts associated with this project.

### Project Milestones:

- FY25 funding for this project was \$200,000.

### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years       | FY26              | FY27              | FY28              | FY29              | FY30              | Beyond FY30         | Total FY26-35       |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|
| Planning & Design               | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Land                            | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Offsite Improvements/Utilities  | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Construction                    | \$ 200,000        | \$ 200,000        | \$ 200,000        | \$ 200,000        | \$ 200,000        | \$ 200,000        | \$ 1,000,000        | \$ 2,000,000        |
| Other                           | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| FFE                             | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| <b>Total</b>                    | <b>\$ 200,000</b> | <b>\$ 200,000</b> | <b>\$ 200,000</b> | <b>\$ 200,000</b> | <b>\$ 200,000</b> | <b>\$ 200,000</b> | <b>\$ 1,000,000</b> | <b>\$ 2,000,000</b> |
| <b>Operating Budget Impacts</b> |                   |                   |                   |                   |                   |                   |                     |                     |
| Personnel (incremental)         | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Operating (incremental)         | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>         | <b>\$ -</b>         |

## Plan Review and Inspection – 00725

**Department**  
Public Utilities  
**Magisterial District**  
Countywide

**Funding Source**  
Enterprise Fund  
**Project Classification**  
Sewer

**Project Location**  
Countywide  
**Project Type**  
Recurring

### Project Description:

This project is a recurring project that provides funding for cost of engineering plan review and construction inspection by DPU staff for plan review and installation of water and sewer mains by private developers. The project captures the County cost associated with private development engineering and construction and assigns the values to the total costs of donated water and sewer assets.

### Service Impact:

This project enables the department to address the demands of growth and development within Henrico County.

### Operating Impact:

There are no fiscal operating impacts with this project.

### Project Milestones:

- FY25 funding for this project was \$2,300,000.

### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years        | FY26                | FY27                | FY28                | FY29                | FY30                | Beyond FY30          | Total FY26-35        |
|---------------------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|
| Planning & Design               | \$1,150,000        | \$ 1,250,000        | \$ 1,250,000        | \$ 1,250,000        | \$ 1,250,000        | \$ 1,250,000        | \$ 6,250,000         | \$ 12,500,000        |
| Land                            | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Offsite Improvements/Utilities  | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Construction                    | \$1,150,000        | \$ 1,250,000        | \$ 1,250,000        | \$ 1,250,000        | \$ 1,250,000        | \$ 1,250,000        | \$ 6,250,000         | \$ 12,500,000        |
| Other                           | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| FFE                             | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| <b>Total</b>                    | <b>\$2,300,000</b> | <b>\$ 2,500,000</b> | <b>\$ 2,500,000</b> | <b>\$ 2,500,000</b> | <b>\$ 2,500,000</b> | <b>\$ 2,500,000</b> | <b>\$ 12,500,000</b> | <b>\$ 25,000,000</b> |
| <b>Operating Budget Impacts</b> |                    |                     |                     |                     |                     |                     |                      |                      |
| Personnel (incremental)         | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Operating (incremental)         | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Capital (incremental)           | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b>        | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b>          |

## Water Reclamation Facility Improvement – 08172

|                                       |  |   |
|---------------------------------------|--|---|
| <b>Department</b><br>Public Utilities | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>9101 WRVA Road |
| <b>Magisterial District</b><br>Varina | <b>Project Classification</b><br>Sewer   | <b>Project Type</b><br>Recurring          |

### Project Description:

Design and construct improvements and major repairs and replacements at the Water Reclamation Facility necessary to upgrade and maintain the facility.

### Service Impact:

The need for upgrades and repairs to the Water Reclamation Facility is determined from on-going operations and maintenance programs, from the master utility plan and facility assessments

### Operating Impact:

There are no fiscal operating impacts with this project.

### Project Milestones:

- FY25 funding for this project was \$5,000,000.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years        | FY26                | FY27                | FY28                | FY29                | FY30                | Beyond FY30          | Total FY26-35        |
|---------------------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|
| Planning & Design               | \$ 700,000         | \$ 700,000          | \$ 1,200,000        | \$ 1,200,000        | \$ 1,200,000        | \$ 500,000          | \$ 6,000,000         | \$ 10,800,000        |
| Land                            | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Offsite Improvements/Utilities  | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Construction                    | \$4,300,000        | \$ 4,300,000        | \$ 4,800,000        | \$ 4,800,000        | \$ 4,800,000        | \$ 2,500,000        | \$ 13,000,000        | \$ 34,200,000        |
| Other                           | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| FFE                             | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| <b>Total</b>                    | <b>\$5,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 6,000,000</b> | <b>\$ 6,000,000</b> | <b>\$ 6,000,000</b> | <b>\$ 3,000,000</b> | <b>\$ 19,000,000</b> | <b>\$ 45,000,000</b> |
| <b>Operating Budget Impacts</b> |                    |                     |                     |                     |                     |                     |                      |                      |
| Personnel (incremental)         | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Operating (incremental)         | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Capital (incremental)           | \$ -               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b>        | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b>          |

## Sewer-Sub Basin Area Wide Sewer Rehabilitation – 01076

|                             |                               |                         |
|-----------------------------|-------------------------------|-------------------------|
| <b>Department</b>           | <b>Funding Source</b>         | <b>Project Location</b> |
| Public Utilities            | Enterprise Fund               | Countywide              |
| <b>Magisterial District</b> | <b>Project Classification</b> | <b>Project Type</b>     |
| Countywide                  | Sewer                         | Recurring               |

### Project Description:

Rehabilitate or replace deteriorating sewer piping to reduce wet weather flows due to infiltration and inflow, prevent overflows, ensure adequate pipe capacity, and improve the overall condition of the sewer system. Work will include sanitary sewer evaluation as well as design and construction of system improvements. These projects are located in every magisterial district. This request was previously submitted as Strawberry Hill Basin Area Wide Sewer Rehabilitation.

### Service Impact:

This project is recommended by the Henrico Wet Weather Flow Reduction Plan Update (2004) and updated with the Defective Sewer Line Rehabilitation Program System Wide Prioritization Update (2011) in order to maintain and improve the delivery of existing services.

### Operating Impact:

There are no fiscal operating impacts with this project.

### Project Milestones:

- FY25 funding for this project was \$10,000,000.

| Project Cost Breakdown/Operating Budget Impacts |                      |                     |                     |                     |                     |                     |                      |                       |
|---|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|-----------------------|
| Project Breakdown                               | Prior Years          | FY26                | FY27                | FY28                | FY29                | FY30                | Beyond FY30          | Total FY26-35         |
| Planning & Design                               | \$ 2,000,000         | \$ 1,500,000        | \$ 1,500,000        | \$ 1,500,000        | \$ 1,500,000        | \$ 1,500,000        | \$ 18,000,000        | \$ 25,500,000         |
| Land  | \$ -                 | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                  |
| Offsite Improvements/Utilities                  | \$ -                 | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                  |
| Construction                                    | \$ 8,000,000         | \$ 6,500,000        | \$ 6,500,000        | \$ 6,500,000        | \$ 6,500,000        | \$ 6,500,000        | \$ 49,000,000        | \$ 81,500,000         |
| Other   | \$ -                 | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                  |
| FFE   | \$ -                 | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                  |
| <b>Total</b>                                    | <b>\$ 10,000,000</b> | <b>\$ 8,000,000</b> | <b>\$ 8,000,000</b> | <b>\$ 8,000,000</b> | <b>\$ 8,000,000</b> | <b>\$ 8,000,000</b> | <b>\$ 67,000,000</b> | <b>\$ 107,000,000</b> |
| <b>Operating Budget Impacts</b>                 |                      |                     |                     |                     |                     |                     |                      |                       |
| Personnel (incremental)                         | \$ -                 | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                  |
| Operating (incremental)                         | \$ -                 | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                  |
| <b>Total Operating Impact</b>                   | <b>\$ -</b>          | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b>           |

## Shovel Ready Henrico Fund – 09572

|   |  |                                       |
|---|--|---------------------------------------|
| <b>Department</b><br>Public Utilities     | <b>Funding Source</b><br>General Fund  | <b>Project Location</b><br>Countywide |
| <b>Magisterial District</b><br>Countywide | <b>Project Classification</b><br>Sewer | <b>Project Type</b><br>Recurring      |

**Project Description:**

Design and construct replacement of deteriorated water and sewer mains. Existing mains and services will be updated as needed.

**Service Impact:**

These projects are part of the department's Shovel Ready Henrico Fund for water and sewer improvements throughout the county.

**Operating Impact:**

There are no fiscal operating impacts with this project.

**Project Milestones:**

- FY25 completed projects included: Riverstone Sewer Crossing, North Washington Street Sewer Extension, and Walnut Avenue Sewer
- FY25 funding for this project was \$5,000,000.

**Project Cost Breakdown/Operating Budget Impacts**

| Project Breakdown               | Prior Years         | FY26                | FY27                | FY28                | FY29                | FY30                | Beyond FY30          | Total FY26-35        |
|---------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|
| Planning & Design               | \$ 1,000,000        | \$ 1,000,000        | \$ 1,000,000        | \$ 1,000,000        | \$ 1,000,000        | \$ 1,000,000        | \$ 5,000,000         | \$ 10,000,000        |
| Land                            | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Offsite Improvements/Utilities  | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Construction                    | \$ 4,000,000        | \$ 4,000,000        | \$ 4,000,000        | \$ 4,000,000        | \$ 4,000,000        | \$ 4,000,000        | \$ 20,000,000        | \$ 40,000,000        |
| Other                           | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| FFE                             | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| <b>Total</b>                    | <b>\$ 5,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 25,000,000</b> | <b>\$ 50,000,000</b> |
| <b>Operating Budget Impacts</b> |                     |                     |                     |                     |                     |                     |                      |                      |
| Personnel (incremental)         | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Operating (incremental)         | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Capital (incremental)           | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b>          |

## Program Management Assistance – New

|   |  |                                       |
|---|--|---------------------------------------|
| <b>Department</b><br>Public Utilities     | <b>Funding Source</b><br>Enterprise Fund     | <b>Project Location</b><br>Countywide |
| <b>Magisterial District</b><br>Countywide | <b>Project Classification</b><br>Sewer (New) | <b>Project Type</b><br>Recurring      |

### Project Description:

To assist with the design and construction for large scale projects. The intent is to use consultants to supplement DPU staff support.

### Service Impact:

To improve levels of efficiency.

### Operating Impact:

There are no fiscal operating impacts with this project.

### Project Milestones:

- Completion of projects in a timely manner.

### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26                | FY27                | FY28                | FY29                | FY30                | Beyond FY30 | Total FY26-35       |
|---------------------------------|-------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------|---------------------|
| Planning & Design               | \$ -        | \$ 500,000          | \$ 500,000          | \$ 500,000          | \$ 500,000          | \$ 500,000          | \$ -        | \$ 2,500,000        |
| Land                            | \$ -        | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -        | \$ -                |
| Offsite Improvements/Utilities  | \$ -        | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -        | \$ -                |
| Construction                    | \$ -        | \$ 500,000          | \$ 500,000          | \$ 500,000          | \$ 500,000          | \$ 500,000          | \$ -        | \$ 2,500,000        |
| Other                           | \$ -        | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -        | \$ -                |
| FFE                             | \$ -        | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -        | \$ -                |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ -</b> | <b>\$ 5,000,000</b> |
| <b>Operating Budget Impacts</b> |             |                     |                     |                     |                     |                     |             |                     |
| Personnel (incremental)         | \$ -        | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -        | \$ -                |
| Operating (incremental)         | \$ -        | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -        | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b>         |

## Horsepen Branch Trunk Sewer – 06666

**Department**  
Public Utilities  
**Magisterial District**  
Brookland

**Funding Source**  
Enterprise Fund  
**Project Classification**  
Sewer

**Project Location**  
W. Broad at Horsepen Road to Route 33  
**Project Type**  
Non-Recurring

### Project Description:

Design and construct 42" and 48" trunk sewer to increase capacity for development.

### Service Impact:

Provide the capacity for increasing growth demands and for wet weather flows. The 2036 Land Use Plan projects densities that required significant improvements to existing backbone infrastructure to support redevelopment that is started at the time. This project was recommended by updates to the 2007 Water and Sewer Facility Plan that was completed in 2012 as prepared by Greeley and Hansen.

### Operating Impact:

There are no fiscal operating impacts with this project.

### Project Location:



| Project Breakdown               | Prior Years | FY26                 | FY27        | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35        |
|---------------------------------|-------------|----------------------|-------------|-------------|-------------|-------------|-------------|----------------------|
| Planning & Design               | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Land                            | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Offsite Improvements/Utilities  | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Construction                    | \$ -        | \$ 10,000,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 10,000,000        |
| Other                           | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| FFE                             | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ 10,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 10,000,000</b> |
| <b>Operating Budget Impacts</b> |             |                      |             |             |             |             |             |                      |
| Personnel (incremental)         | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Operating (incremental)         | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Capital (incremental)           | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>          |

## White Oak SPS Improvements – 06449

|                                       |  |   |
|---------------------------------------|--|---|
| <b>Department</b><br>Public Utilities | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>5645 Beulah Road |
| <b>Magisterial District</b><br>Varina | <b>Project Classification</b><br>Sewer   | <b>Project Type</b><br>Non-Recurring        |

### Project Description:

Design and construct improvements to the existing 11.8 MGD sewer pump station. Pump station capacity will be increased to 23.8 MGD.

### Service Impact:

This project will improve the delivery of existing services in the project area.

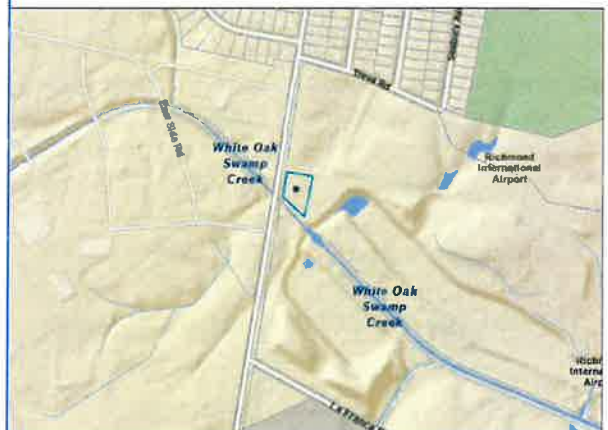
### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- FY25 funding for this project was \$11,000,000.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years         | FY26                 | FY27        | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35        |
|---------------------------------|---------------------|----------------------|-------------|-------------|-------------|-------------|-------------|----------------------|
| Planning & Design               | \$ 1,000,000        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Land                            | \$ -                | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Offsite Improvements/Utilities  | \$ -                | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Construction                    | \$10,000,000        | \$ 10,000,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 10,000,000        |
| Other                           | \$ -                | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| FFE                             | \$ -                | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| <b>Total</b>                    | <b>\$11,000,000</b> | <b>\$ 10,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 10,000,000</b> |
| <b>Operating Budget Impacts</b> |                     |                      |             |             |             |             |             |                      |
| Personnel (incremental)         | \$ -                | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Operating (incremental)         | \$ -                | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>          |

## New Market & Buffin Road Force Main Phase 2 – 09703

|  |  |   |
|--|--|---|
| <b>Department</b><br>Public Utilities<br><b>Magisterial District</b><br>Varina | <b>Funding Source</b><br>Enterprise Fund<br><b>Project Classification</b><br>Sewer | <b>Project Location</b><br>New Market & Buffin Road<br><b>Project Type</b><br>Non-Recurring |
|--|--|---|

### Project Description:

Design and construct improvement to the existing 17,500 feet of force main to increase capacity.

### Service Impact:

The existing Almond Creek and New Market sewer pump stations will have increased capacity. Replacement of the existing force main is necessary to provide conveyance of the increased discharge, provide additional capacity for increasing development, and for increasing wet weather. The need for this project was identified in the 2007 Water and Sewer Facility Plan.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- FY25 funding for this project was \$2,000,000.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years         | FY26                 | FY27        | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35        |
|---------------------------------|---------------------|----------------------|-------------|-------------|-------------|-------------|-------------|----------------------|
| Planning & Design               | \$ 2,000,000        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Land                            | \$ -                | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Offsite Improvements/Utilities  | \$ -                | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Construction                    | \$ -                | \$ 16,000,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 16,000,000        |
| Other                           | \$ -                | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| FFE                             | \$ -                | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| <b>Total</b>                    | <b>\$ 2,000,000</b> | <b>\$ 16,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 16,000,000</b> |
| <b>Operating Budget Impacts</b> |                     |                      |             |             |             |             |             |                      |
| Personnel (incremental)         | \$ -                | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Operating (incremental)         | \$ -                | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>          |

## New Market Force Main Odor Control Facility – New

|                                       |  |   |
|---------------------------------------|--|---|
| <b>Department</b><br>Public Utilities | <b>Funding Source</b><br>Enterprise Fund     | <b>Project Location</b><br>New Market & Buffin Road |
| <b>Magisterial District</b><br>Varina | <b>Project Classification</b><br>Sewer (New) | <b>Project Type</b><br>Non-Recurring                |

### Project Description:

Design and construct odor control facility.

### Service Impact:

The existing Almond Creek and New-Market sewer pump stations will have increased capacity. Replacement of the existing force main is necessary to provide conveyance of the increased discharge. The odor control facility will reduce corrosion inside the force mains. The need for this project was identified in the 2007 Water and Sewer Facility Plan.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Planning and Construction scheduled for FY26.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26                | FY27        | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35       |
|---------------------------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|---------------------|
| Planning & Design               | \$ -        | \$ 500,000          | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 500,000          |
| Land                            | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Offsite Improvements/Utilities  | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Construction                    | \$ -        | \$ 2,000,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 2,000,000        |
| Other                           | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| FFE                             | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ 2,500,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 2,500,000</b> |
| <b>Operating Budget Impacts</b> |             |                     |             |             |             |             |             |                     |
| Personnel (incremental)         | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Operating (incremental)         | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         |

## Water Reclamation Facility Flow Equalization Facility – New

|                             |                               |                         |
|-----------------------------|-------------------------------|-------------------------|
| <b>Department</b>           | <b>Funding Source</b>         | <b>Project Location</b> |
| Public Utilities            | Enterprise Fund               | 9101 WRVA Road          |
| <b>Magisterial District</b> | <b>Project Classification</b> | <b>Project Type</b>     |
| Varina                      | Sewer (New)                   | Non-Recurring           |

### Project Description:

Design and construct flow equalization facility for storm events and daily peak flows.

### Service Impact:

Provide additional capacity for increasing growth demands and for wet weather flows. The need for this project was identified in the 2007 Water and Sewer Facility Plan.

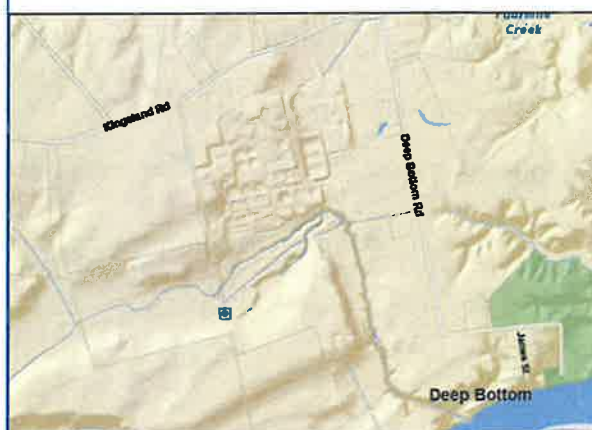
### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Planning and Design scheduled for FY26.
- Construction scheduled for FY28.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26                | FY27        | FY28                 | FY29        | FY30        | Beyond FY30          | Total FY26-35         |
|---------------------------------|-------------|---------------------|-------------|----------------------|-------------|-------------|----------------------|-----------------------|
| Planning & Design               | \$ -        | \$ 6,000,000        | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 | \$ 6,000,000          |
| Land                            | \$ -        | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 | \$ -                  |
| Offsite Improvements/Utilities  | \$ -        | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 | \$ -                  |
| Construction                    | \$ -        | \$ -                | \$ -        | \$ 48,000,000        | \$ -        | \$ -        | \$ 53,000,000        | \$ 101,000,000        |
| Other                           | \$ -        | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 | \$ -                  |
| FFE                             | \$ -        | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 | \$ -                  |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ 6,000,000</b> | <b>\$ -</b> | <b>\$ 48,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 53,000,000</b> | <b>\$ 107,000,000</b> |
| <b>Operating Budget Impacts</b> |             |                     |             |                      |             |             |                      |                       |
| Personnel (incremental)         | \$ -        | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 | \$ -                  |
| Operating (incremental)         | \$ -        | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 | \$ -                  |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>          | <b>\$ -</b>           |

## Deep Run Outfall - 07027

|  |  |   |
|--|--|---|
| <b>Department</b><br>Public Utilities      | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>Innsbrook from Rooty Branch SPS at the north of Lake Brook Rd by I-295 |
| <b>Magisterial District</b><br>Three Chopt | <b>Project Classification</b><br>Sewer   | <b>Project Type</b><br>Non-Recurring  |

### Project Description:

Design and construct approximately 9,440 feet of 42-inch gravity sewer to replace existing 15 inch to 24-inch sewers.

### Service Impact:

This project provides capacity for increasing growth demands and for wet weather flows. The existing sewers were installed about 1980. The 2036 Land Use Plan projects densities that require significant improvements to existing backbone infrastructure to support redevelopment that is started at this time. The need for this project was identified in the 2007 Water and Sewer Facility Plan.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- FY25 funding for this project was \$21,000,000.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years          | FY26                 | FY27        | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35        |
|---------------------------------|----------------------|----------------------|-------------|-------------|-------------|-------------|-------------|----------------------|
| Planning & Design               | \$ -                 | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Land                            | \$ -                 | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Offsite Improvements/Utilities  | \$ -                 | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Construction                    | \$ 21,000,000        | \$ 18,000,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 18,000,000        |
| Other                           | \$ -                 | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| FFE                             | \$ -                 | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| <b>Total</b>                    | <b>\$ 21,000,000</b> | <b>\$ 18,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 18,000,000</b> |
| <b>Operating Budget Impacts</b> |                      |                      |             |             |             |             |             |                      |
| Personnel (incremental)         | \$ -                 | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Operating (incremental)         | \$ -                 | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>          |

## Rooty Branch SPS Replacement - 07026

|  |  |  |
|--|--|--|
| <b>Department</b><br>Public Utilities      | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>5200 Cox Road |
| <b>Magisterial District</b><br>Three Chopt | <b>Project Classification</b><br>Sewer   | <b>Project Type</b><br>Non-Recurring     |

### Project Description:

Design and construct a 34 MGD pump station to replace the existing 6 MGD pump station.

### Service Impact:

This project provides additional capacity for increasing growth demands with implementation of redevelopment planned for Innsbrook and for wet weather induced flows. The need for this project was identified in the 2007 Water and Sewer Facility Plan.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- FY25 funding for this project was \$21,000,000.

### Project Location:



| Project Breakdown               | Prior Years          | FY26        | FY27                 | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35        |
|---------------------------------|----------------------|-------------|----------------------|-------------|-------------|-------------|-------------|----------------------|
| Planning & Design               | \$ 2,000,000         | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Land                            | \$ -                 | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Offsite Improvements/Utilities  | \$ -                 | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Construction                    | \$ 21,000,000        | \$ -        | \$ 14,000,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 14,000,000        |
| Other                           | \$ -                 | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| FFE                             | \$ -                 | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| <b>Total</b>                    | <b>\$ 23,000,000</b> | <b>\$ -</b> | <b>\$ 14,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 14,000,000</b> |
| <b>Operating Budget Impacts</b> |                      |             |                      |             |             |             |             |                      |
| Personnel (incremental)         | \$ -                 | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Operating (incremental)         | \$ -                 | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Capital (incremental)           | \$ -                 | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>          |

## Rooty Branch Force Main - 07028

**Department**  
Public Utilities  
**Magisterial District**  
Three Chopt

**Funding Source**  
Enterprise Fund  
**Project Classification**  
Sewer

**Project Location**  
Fords Country Lane & I-295  
**Project Type**  
Non-Recurring

### Project Description:

Design and construct approximately 1,600 LF of 36-inch force main to replace the existing force main and increase transport capacity to 34 MGD.

### Service Impact:

Provide additional capacity for increasing growth demands with implementation of redevelopment planned for Innsbrook and for wet weather induced flows. The need for this project was identified in the 2007 Water and Sewer Facility Plan.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26                | FY27                | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35       |
|---------------------------------|-------------|---------------------|---------------------|-------------|-------------|-------------|-------------|---------------------|
| Planning & Design               | \$ -        | \$ 1,000,000        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ 1,000,000        |
| Land                            | \$ -        | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Offsite Improvements/Utilities  | \$ -        | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Construction                    | \$ -        | \$ -                | \$ 5,000,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 5,000,000        |
| Other                           | \$ -        | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| FFE                             | \$ -        | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ 1,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 6,000,000</b> |
| <b>Operating Budget Impacts</b> |             |                     |                     |             |             |             |             |                     |
| Personnel (incremental)         | \$ -        | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Operating (incremental)         | \$ -        | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         |

## Almond Creek Trunk Sewer Line - 06155

|                                       |  |   |
|---------------------------------------|--|---|
| <b>Department</b><br>Public Utilities | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>Along Almond Creek near Bickerstaff and Old Osborne Road |
| <b>Magisterial District</b><br>Varina | <b>Project Classification</b><br>Sewer   | <b>Project Type</b><br>Non-Recurring  |

### Project Description:

Design and construct 5,000 LF of 24" gravity trunk sewer to Almond Creek SPS.

### Service Impact:

Provide additional capacity for wet weather induced flows. Recommended by the Water & Sewer Facility Plan – July 2007.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Planning scheduled for FY26.
- Construction scheduled for FY27.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26              | FY27                | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35       |
|---------------------------------|-------------|-------------------|---------------------|-------------|-------------|-------------|-------------|---------------------|
| Planning & Design               | \$ -        | \$ 600,000        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ 600,000          |
| Land                            | \$ -        | \$ -              | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Offsite Improvements/Utilities  | \$ -        | \$ -              | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Construction                    | \$ -        | \$ -              | \$ 3,246,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 3,246,000        |
| Other                           | \$ -        | \$ -              | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| FFE                             | \$ -        | \$ -              | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ 600,000</b> | <b>\$ 3,246,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 3,846,000</b> |
| <b>Operating Budget Impacts</b> |             |                   |                     |             |             |             |             |                     |
| Personnel (incremental)         | \$ -        | \$ -              | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Operating (incremental)         | \$ -        | \$ -              | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b>       | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         |

## North Run Trunk Sewer - 06154

|  |  |  |
|--|--|--|
| <b>Department</b><br>Public Utilities    | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>Along North Run Creek from Woodman Road to Brook Road |
| <b>Magisterial District</b><br>Fairfield | <b>Project Classification</b><br>Sewer   | <b>Project Type</b><br>Non-Recurring   |

### Project Description:

Design and construct 22,350 feet of 54" gravity trunk sewer main beginning near Woodman Rd and extending downstream along North Run Creek to Brook Rd at Upham Brook.

### Service Impact:

This project addresses demands of growth and development of the County. The need for this project was initially identified in the 2007 Water and Sewer Facility Plan and modified with the Innsbrook Area Study Special Focus Area Report, dated January 2013.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Planning and Design scheduled for FY26.
- Construction scheduled for FY29.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26                | FY27        | FY28        | FY29                 | FY30        | Beyond FY30 | Total FY26-35        |
|---------------------------------|-------------|---------------------|-------------|-------------|----------------------|-------------|-------------|----------------------|
| Planning & Design               | \$ -        | \$ 7,000,000        | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -        | \$ 7,000,000         |
| Land                            | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 |
| Offsite Improvements/Utilities  | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 |
| Construction                    | \$ -        | \$ -                | \$ -        | \$ -        | \$ 38,000,000        | \$ -        | \$ -        | \$ 38,000,000        |
| Other                           | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 |
| FFE                             | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ 7,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 38,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 45,000,000</b> |
| <b>Operating Budget Impacts</b> |             |                     |             |             |                      |             |             |                      |
| Personnel (incremental)         | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 |
| Operating (incremental)         | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>          |

## Hungary Creek Trunk Sewer – 06158

|   |  |   |
|---|--|---|
| <b>Department</b><br>Public Utilities     | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>Hungary Creek from Staples Mill Road to Woodman Road |
| <b>Magisterial District</b><br>Countywide | <b>Project Classification</b><br>Sewer   | <b>Project Type</b><br>Non-Recurring  |

### Project Description:

Design and construct 19,100 feet of 48" gravity trunk sewer main beginning near Hungary Rd west of Staples Mill Rd and extending downstream along Hungary Creek to North Run Creek at Woodman Rd.

### Service Impact:

The need for this project was initially identified in the 2007 Water and Sewer Facility Plan and modified with the Innsbrook Area Study Special Focus Area Report, dated January 2013.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Designed scheduled for FY26.
- Construction scheduled for FY29.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26         | FY27 | FY28 | FY29          | FY30 | Beyond FY30 | Total FY26-35 |
|---------------------------------|-------------|--------------|------|------|---------------|------|-------------|---------------|
| Planning & Design               | \$ -        | \$ 6,000,000 | \$ - | \$ - | \$ -          | \$ - | \$ -        | \$ 6,000,000  |
| Land                            | \$ -        | \$ -         | \$ - | \$ - | \$ -          | \$ - | \$ -        | \$ -          |
| Offsite Improvements/Utilities  | \$ -        | \$ -         | \$ - | \$ - | \$ -          | \$ - | \$ -        | \$ -          |
| Construction                    | \$ -        | \$ -         | \$ - | \$ - | \$ 32,000,000 | \$ - | \$ -        | \$ 32,000,000 |
| Other                           | \$ -        | \$ -         | \$ - | \$ - | \$ -          | \$ - | \$ -        | \$ -          |
| FFE                             | \$ -        | \$ -         | \$ - | \$ - | \$ -          | \$ - | \$ -        | \$ -          |
| <b>Total</b>                    | \$ -        | \$ 6,000,000 | \$ - | \$ - | \$ 32,000,000 | \$ - | \$ -        | \$ 38,000,000 |
| <b>Operating Budget Impacts</b> |             |              |      |      |               |      |             |               |
| Personnel (incremental)         | \$ -        | \$ -         | \$ - | \$ - | \$ -          | \$ - | \$ -        | \$ -          |
| Operating (incremental)         | \$ -        | \$ -         | \$ - | \$ - | \$ -          | \$ - | \$ -        | \$ -          |
| <b>Total Operating Impact</b>   | \$ -        | \$ -         | \$ - | \$ - | \$ -          | \$ - | \$ -        | \$ -          |

## Allen's Branch and Rooty Branch Force Main – 06838

|  |  |  |
|--|--|--|
| <b>Department</b><br>Public Utilities      | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>From Rooty Branch SPS and Allen's Branch SPS to Meredith Branch SPS |
| <b>Magisterial District</b><br>Three Chopt | <b>Project Classification</b><br>Sewer   | <b>Project Type</b><br>Non-Recurring   |

### Project Description:

Design and construct approximately 8,900 feet of 42" diameter force main to replace existing force main. The existing 24" force main will be abandoned. Capacity of this system will be increased by 32.9 MGD to a total of 48.8 MGD.

### Service Impact:

This project is needed to handle additional demands from Innsbrook through Rooty Branch SPS. The need for this project was initially identified in the 2007 Water and Sewer Facility Plan and modified with the Innsbrook Area Study Special Focus Area Report dated January 2013.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Funding in FY23 for this project was \$2,000,000.

### Project Location:



| Project Breakdown               | Prior Years         | FY26        | FY27                 | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35        |
|---------------------------------|---------------------|-------------|----------------------|-------------|-------------|-------------|-------------|----------------------|
| Planning & Design               | \$ 2,000,000        | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Land                            | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Offsite Improvements/Utilities  | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Construction                    | \$ -                | \$ -        | \$ 12,000,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 12,000,000        |
| Other                           | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| FFE                             | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| <b>Total</b>                    | <b>\$ 2,000,000</b> | <b>\$ -</b> | <b>\$ 12,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 12,000,000</b> |
| <b>Operating Budget Impacts</b> |                     |             |                      |             |             |             |             |                      |
| Personnel (incremental)         | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Operating (incremental)         | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| Capital (incremental)           | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>          |

## Tuckahoe Creek Trunk Sewer Rehabilitation – 06667

|   |  |  |
|---|--|--|
| <b>Department</b><br>Public Utilities                   | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>Along Tuckahoe Creek from W. Broad Street to River Rd SPS |
| <b>Magisterial District</b><br>Three Chopt and Tuckahoe | <b>Project Classification</b><br>Sewer   | <b>Project Type</b><br>Non-Recurring   |

### Project Description:

Rehabilitate or replace approximately 32,700 feet of 27" to 54" sewer main.

### Service Impact:

This project is needed to rehabilitate deteriorating sewer pipe, reduce wet weather flows due to infiltration and inflow, prevent overflow, ensure adequate pipe capacity, and improve the overall condition of the sewer system.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Planning and Design scheduled for FY27.
- Construction scheduled for FY 29.



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26        | FY27                | FY28        | FY29                 | FY30        | Beyond FY30 | Total FY26-35        |
|---------------------------------|-------------|-------------|---------------------|-------------|----------------------|-------------|-------------|----------------------|
| Planning & Design               | \$ -        | \$ -        | \$ 5,500,000        | \$ -        | \$ -                 | \$ -        | \$ -        | \$ 5,500,000         |
| Land                            | \$ -        | \$ -        | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 |
| Offsite Improvements/Utilities  | \$ -        | \$ -        | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 |
| Construction                    | \$ -        | \$ -        | \$ -                | \$ -        | \$ 22,000,000        | \$ -        | \$ -        | \$ 22,000,000        |
| Other                           | \$ -        | \$ -        | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 |
| FFE                             | \$ -        | \$ -        | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 5,500,000</b> | <b>\$ -</b> | <b>\$ 22,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 27,500,000</b> |
| <b>Operating Budget Impacts</b> |             |             |                     |             |                      |             |             |                      |
| Personnel (incremental)         | \$ -        | \$ -        | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 |
| Operating (incremental)         | \$ -        | \$ -        | \$ -                | \$ -        | \$ -                 | \$ -        | \$ -        | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>          |

## Gillies Creek FM Improvements – New

|                                       |  |   |
|---------------------------------------|--|---|
| <b>Department</b><br>Public Utilities | <b>Funding Source</b><br>Enterprise Fund     | <b>Project Location</b><br>Jennie Scher Road to Charles City Road |
| <b>Magisterial District</b><br>Varina | <b>Project Classification</b><br>Sewer (New) | <b>Project Type</b><br>Non-Recurring                              |

### Project Description:

Replace existing 24" force main from Gillies Creek SPS to Charles City Road.

### Service Impact:

Improve Delivery of Existing Services.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Planning and design scheduled for FY27.
- Construction in FY30.



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26        | FY27                | FY28        | FY29        | FY30                 | Beyond FY30 | Total FY26-35        |
|---------------------------------|-------------|-------------|---------------------|-------------|-------------|----------------------|-------------|----------------------|
| Planning & Design               | \$ -        | \$ -        | \$ 5,000,000        | \$ -        | \$ -        | \$ -                 | \$ -        | \$ 5,000,000         |
| Land                            | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -                 |
| Offsite Improvements/Utilities  | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -                 |
| Construction                    | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ 30,000,000        | \$ -        | \$ 30,000,000        |
| Other                           | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -                 |
| FFE                             | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -                 |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 5,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 30,000,000</b> | <b>\$ -</b> | <b>\$ 35,000,000</b> |
| <b>Operating Budget Impacts</b> |             |             |                     |             |             |                      |             |                      |
| Personnel (incremental)         | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -                 |
| Operating (incremental)         | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b>          |

## Gillies Creek SPS Flow Equalization Basin – 07029

|                                       |  |  |
|---------------------------------------|--|--|
| <b>Department</b><br>Public Utilities | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>Jennie Scher Road |
| <b>Magisterial District</b><br>Varina | <b>Project Classification</b><br>Sewer   | <b>Project Type</b><br>Non-Recurring         |

### Project Description:

Design and construct additional 4 MG of storage volume for sewer flow equalization during wet weather.

### Service Impact:

Provide additional flow equalization storage for wet weather induced flows. Recommended by the Greeley & Hansen Water & Sewer Facility Plan- July 2007.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Planning, design and construction scheduled for FY27.



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26        | FY27                | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35       |
|---------------------------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|---------------------|
| Planning & Design               | \$ -        | \$ -        | \$ 1,500,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 1,500,000        |
| Land                            | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Offsite Improvements/Utilities  | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Construction                    | \$ -        | \$ -        | \$ 6,000,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 6,000,000        |
| Other                           | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| FFE                             | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 7,500,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 7,500,000</b> |
| <b>Operating Budget Impacts</b> |             |             |                     |             |             |             |             |                     |
| Personnel (incremental)         | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Operating (incremental)         | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         |

## Gambles Mill SPS FEB & Emergency Generator – 06152

|   |  |  |
|---|--|--|
| <b>Department</b><br>Public Utilities   | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>6173 River Road |
| <b>Magisterial District</b><br>Tuckahoe | <b>Project Classification</b><br>Sewer   | <b>Project Type</b><br>Non-Recurring       |

### Project Description:

Design and construct 3.5 MG covered FEB.

### Service Impact:

The need for this project was identified in the 2007 Water and Sewer Facility Plan prepared by Greeley and Hansen

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Planning, Design and Construction scheduled for FY30.

### Project Location:



| Project Breakdown               | Prior Years          | FY26        | FY27        | FY28        | FY29        | FY30                 | Beyond FY30 | Total FY26-35        |
|---------------------------------|----------------------|-------------|-------------|-------------|-------------|----------------------|-------------|----------------------|
| Planning & Design               | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ 500,000           | \$ -        | \$ 500,000           |
| Land                            | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -                 |
| Offsite Improvements/Utilities  | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -                 |
| Construction                    | \$ 13,800,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 15,500,000        | \$ -        | \$ 15,500,000        |
| Other                           | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -                 |
| FFE                             | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -                 |
| <b>Total</b>                    | <b>\$ 13,800,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 16,000,000</b> | <b>\$ -</b> | <b>\$ 16,000,000</b> |
| <b>Operating Budget Impacts</b> |                      |             |             |             |             |                      |             |                      |
| Personnel (incremental)         | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -                 |
| Operating (incremental)         | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -                 |
| Capital (incremental)           | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                 | \$ -        | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b>          |

# Capital Improvement Program Five Year Summary FY26 through FY35

## Capital Projects Fund - Department Requests by Fiscal Year and Priority Number

### Public Utilities

|                                   |  | Priority | Recommended<br>FY26 | Request<br>FY26 | Request<br>FY27 | Request<br>FY28 | Request<br>FY29 | Request<br>FY30 | Request<br>FY31-FY35 | Total<br>Ten Year |
|-----------------------------------|--|----------|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|-------------------|
| Public Utilities - Water          |  |          |                     |                 |                 |                 |                 |                 |                      |                   |
| 00771                             | Water Connections                                  | 1        | 300,000             | 300,000         | 300,000         | 300,000         | 300,000         | 300,000         | 1,500,000            | 3,000,000         |
| 00770                             | Water Line Extension                               | 2        | 600,000             | 600,000         | 600,000         | 600,000         | 600,000         | 600,000         | 3,000,000            | 6,000,000         |
| 00768                             | Water Line Rehabilitation                          | 3        | 5,000,000           | 5,000,000       | 5,000,000       | 5,000,000       | 6,000,000       | 7,000,000       | 44,000,000           | 72,000,000        |
| 00769                             | Water Pumping Station Improvements                 | 4        | 2,500,000           | 2,500,000       | 1,000,000       | 1,000,000       | 1,000,000       | 1,000,000       | 5,000,000            | 11,500,000        |
| 00767                             | Water Relocations, Adjustments and Xings           | 5        | 400,000             | 400,000         | 200,000         | 200,000         | 200,000         | 200,000         | 1,000,000            | 2,200,000         |
| 00780                             | Water Meters                                       | 6        | 1,300,000           | 1,300,000       | 1,300,000       | 1,300,000       | 1,300,000       | 1,300,000       | 6,500,000            | 13,000,000        |
| 08171                             | Water Treatment Facility Improvements              | 7        | 2,000,000           | 2,000,000       | 2,000,000       | 2,000,000       | 2,000,000       | 2,000,000       | 12,000,000           | 22,000,000        |
| NEW                               | Lead and Copper Program                            | 8        | 5,000,000           | 5,000,000       | -               | 5,000,000       | -               | 5,000,000       | 5,000,000            | 20,000,000        |
| NEW                               | Eastern Water Transmission Main - Long Term Option | 9        | 50,000,000          | 50,000,000      | 50,000,000      | 50,000,000      | 50,000,000      | 50,000,000      | 50,000,000           | 300,000,000       |
| 09706                             | Bethlehem Road Water and Sewer                     | 10       | 750,000             | 1,000,000       | -               | -               | -               | -               | -                    | 1,000,000         |
| 06121                             | Technology Boulevard 24" Water Main                | 11       | 1,000,000           | 2,200,000       | -               | -               | -               | -               | -                    | 2,200,000         |
| 06124                             | Williamsburg Road 24" Water Main                   | 12       | 2,200,000           | 2,500,000       | -               | -               | -               | -               | -                    | 2,500,000         |
| NEW                               | Memorial Drive 30" Water Main                      | 13       | 2,500,000           | 4,000,000       | -               | -               | -               | -               | -                    | 4,000,000         |
| 08556                             | Old Williamsburg Water Pumping Station             | 14       | 4,000,000           | 4,000,000       | -               | -               | -               | -               | 3,000,000            | 7,000,000         |
| 09704                             | Richmond Henrico Water Main                        | 15       | 4,000,000           | 600,000         | -               | -               | -               | -               | -                    | 600,000           |
| 09705                             | Three Chopt Road Water Main Improvements           | 16       | 600,000             | 750,000         | -               | -               | -               | -               | -                    | 750,000           |
| NEW                               | Magellan Parkway Water Main Improvements           | 17       | 3,100,000           | 3,100,000       | -               | -               | -               | -               | -                    | 3,100,000         |
| NEW                               | Water and Sewer Infill Program                     | 18       | 1,000,000           | 1,000,000       | 1,000,000       | 1,000,000       | 1,000,000       | 1,000,000       | 5,000,000            | 10,000,000        |
| 06118                             | Sadler Road 12" Water Line                         | 19       | -                   | -               | 1,000,000       | -               | -               | -               | -                    | 1,000,000         |
| 06615                             | Ridge Water Pressure Zone                          | 20       | -                   | -               | -               | -               | 3,500,000       | -               | -                    | 3,500,000         |
| 08162                             | Woodman Road Water Main                            | 21       | -                   | -               | -               | -               | 4,000,000       | -               | -                    | 4,000,000         |
| Department Subtotal               |  |          | 86,250,000          | 86,250,000      | 62,400,000      | 66,400,000      | 69,900,000      | 68,400,000      | 136,000,000          | 489,350,000       |
| Grand Total - Enterprise W/S Fund |  |          | 198,050,000         | 198,050,000     | 150,346,000     | 150,100,000     | 195,100,000     | 142,600,000     | 356,000,000          | 1,192,196,000     |

## Water Connections – 00771

|  |  |   |
|--|--|---|
| <b>Department</b><br>Public Utilities<br><b>Magisterial District</b><br>Countywide | <b>Funding Source</b><br>Enterprise Fund<br><b>Project Classification</b><br>Water | <b>Project Location</b><br>Countywide<br><b>Project Type</b><br>Recurring |
|--|--|---|

### Project Description:

Design and construct water service connections to serve customers from existing water system.

### Service Impact:

Installation of water service connections for owner occupied homes is a service to provide water to new customers to address the demands of growth and development of the County.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- FY25 funding for this project was \$200,000.

### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years       | FY26              | FY27              | FY28              | FY29              | FY30              | Beyond FY30         | Total FY26-35       |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|
| Planning & Design               | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Land                            | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Offsite Improvements/Utilities  | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Construction                    | \$ 200,000        | \$ 300,000        | \$ 300,000        | \$ 300,000        | \$ 300,000        | \$ 300,000        | \$ 1,500,000        | \$ 3,000,000        |
| Other                           | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| FFE                             | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| <b>Total</b>                    | <b>\$ 200,000</b> | <b>\$ 300,000</b> | <b>\$ 300,000</b> | <b>\$ 300,000</b> | <b>\$ 300,000</b> | <b>\$ 300,000</b> | <b>\$ 1,500,000</b> | <b>\$ 3,000,000</b> |
| <b>Operating Budget Impacts</b> |                   |                   |                   |                   |                   |                   |                     |                     |
| Personnel (incremental)         | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Operating (incremental)         | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>         | <b>\$ -</b>         |

## Water Line Extensions – 00770

| Department           | Funding Source         | Project Location |
|----------------------|------------------------|------------------|
| Public Utilities     | Enterprise Fund        | Countywide       |
| Magisterial District | Project Classification | Project Type     |
| Countywide           | Water                  | Recurring        |

### Project Description:

Design and construct water main extensions from the existing system to serve owner-occupied single-family residences.

### Service Impact:

The installation of water main extensions for owner occupied homes is a service provided to provide water services to new customers and address the demands of growth and development of the County.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- FY25 funding for this project was \$500,000.

### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years       | FY26              | FY27              | FY28              | FY29              | FY30              | Beyond FY30         | Total FY26-35       |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|
| Planning & Design               | \$ 150,000        | \$ 150,000        | \$ 150,000        | \$ 150,000        | \$ 150,000        | \$ 150,000        | \$ 3,000,000        | \$ 3,750,000        |
| Land                            | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Offsite Improvements/Utilities  | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Construction                    | \$ 350,000        | \$ 450,000        | \$ 450,000        | \$ 450,000        | \$ 450,000        | \$ 450,000        | \$ -                | \$ 2,250,000        |
| Other                           | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| FFE                             | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| <b>Total</b>                    | <b>\$ 500,000</b> | <b>\$ 600,000</b> | <b>\$ 600,000</b> | <b>\$ 600,000</b> | <b>\$ 600,000</b> | <b>\$ 600,000</b> | <b>\$ 3,000,000</b> | <b>\$ 6,000,000</b> |
| <b>Operating Budget Impacts</b> |                   |                   |                   |                   |                   |                   |                     |                     |
| Personnel (incremental)         | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Operating (incremental)         | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>         | <b>\$ -</b>         |

## Water Line Rehabilitation – 00768

**Department**  
Public Utilities  
**Magisterial District**  
Countywide

**Funding Source**  
Enterprise Fund  
**Project Classification**  
Water

**Project Location**  
Countywide  
**Project Type**  
Recurring

### Project Description:

Design and construct replacement of deteriorated water mains. Existing mains and services are replaced as needed to upgrade the system.

### Service Impact:

This project is part of the department's water rehabilitation program that is necessary to maintain and improve the delivery of water service to customers.

### Operating Impact:

There are no operating fiscal impacts associated with this project.

### Project Milestones:

- FY25 funding for this project was \$4,000,000.

| Project Cost Breakdown/Operating Budget Impacts |                     |                     |                     |                     |                     |                     |                      |                      |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|
| Project Breakdown                               | Prior Years         | FY26                | FY27                | FY28                | FY29                | FY30                | Beyond FY30          | Total FY26-35        |
| Planning & Design                               | \$ 800,000          | \$ 1,000,000        | \$ 1,000,000        | \$ 1,000,000        | \$ 1,500,000        | \$ 2,000,000        | \$ 44,000,000        | \$ 50,500,000        |
| Land  | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Offsite Improvements/Utilities                  | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Construction                                    | \$ 3,200,000        | \$ 4,000,000        | \$ 4,000,000        | \$ 4,000,000        | \$ 4,500,000        | \$ 5,000,000        | \$ -                 | \$ 21,500,000        |
| Other   | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| FFE   | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| <b>Total</b>                                    | <b>\$ 4,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 6,000,000</b> | <b>\$ 7,000,000</b> | <b>\$ 44,000,000</b> | <b>\$ 72,000,000</b> |
| <b>Operating Budget Impacts</b>                 |                     |                     |                     |                     |                     |                     |                      |                      |
| Personnel (incremental)                         | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Operating (incremental)                         | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| <b>Total Operating Impact</b>                   | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b>          |

## Water Pumping Station Improvements – 00769

|                             |                               |                         |
|-----------------------------|-------------------------------|-------------------------|
| <b>Department</b>           | <b>Funding Source</b>         | <b>Project Location</b> |
| Public Utilities            | Enterprise Fund               | Countywide              |
| <b>Magisterial District</b> | <b>Project Classification</b> | <b>Project Type</b>     |
| Countywide                  | Water                         | Recurring               |

### Project Description:

Design and construct improvements and major repairs at existing water pumping stations. Works in FY25 includes AFD Replacements and misc. station upgrades at Shady Grove WPS and Tanks.

### Service Impact:

The needs for upgrades and repairs to pumping stations are determined from on-going maintenance programs and the master utility plan to continue and improve the delivery of existing services.

### Operating Impact:

There are no operating fiscal impacts associated with this project.

### Project Milestones:

- FY25 funding for this project was \$1,000,000.

### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years         | FY26                | FY27                | FY28                | FY29                | FY30                | Beyond FY30         | Total FY26-35        |
|---------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Planning & Design               | \$ 250,000          | \$ 500,000          | \$ 250,000          | \$ 250,000          | \$ 250,000          | \$ 250,000          | \$ 5,000,000        | \$ 6,500,000         |
| Land                            | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| Offsite Improvements/Utilities  | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| Construction                    | \$ 750,000          | \$ 2,000,000        | \$ 750,000          | \$ 750,000          | \$ 750,000          | \$ 750,000          | \$ -                | \$ 5,000,000         |
| Other                           | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| FFE                             | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| <b>Total</b>                    | <b>\$ 1,000,000</b> | <b>\$ 2,500,000</b> | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 11,500,000</b> |
| <b>Operating Budget Impacts</b> |                     |                     |                     |                     |                     |                     |                     |                      |
| Personnel (incremental)         | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| Operating (incremental)         | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>          |

## Water Relocations Adjustments and Crossings – 00767

|   |  |                                       |
|---|--|---------------------------------------|
| <b>Department</b><br>Public Utilities     | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>Countywide |
| <b>Magisterial District</b><br>Countywide | <b>Project Classification</b><br>Water   | <b>Project Type</b><br>Recurring      |

### Project Description:

This project provides funding for design and construction water relocations, adjustments, and crossings that are part of County and state road, and County drainage projects.

### Service Impact:

This project seeks to improve the delivery of existing services by providing necessary water main adjustments or relocations based on Public Works and Virginia Department of Transportation efforts.

### Operating Impact:

There are no fiscal operating impacts with this project.

### Project Milestones:

- FY25 funding for this project was \$200,000.

### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years       | FY26              | FY27              | FY28              | FY29              | FY30              | Beyond FY30         | Total FY26-35       |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|
| Planning & Design               | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Land                            | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Offsite Improvements/Utilities  | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Construction                    | \$ 200,000        | \$ 400,000        | \$ 200,000        | \$ 200,000        | \$ 200,000        | \$ 200,000        | \$ 1,000,000        | \$ 2,200,000        |
| Other                           | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| FFE                             | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| <b>Total</b>                    | <b>\$ 200,000</b> | <b>\$ 400,000</b> | <b>\$ 200,000</b> | <b>\$ 200,000</b> | <b>\$ 200,000</b> | <b>\$ 200,000</b> | <b>\$ 1,000,000</b> | <b>\$ 2,200,000</b> |
| <b>Operating Budget Impacts</b> |                   |                   |                   |                   |                   |                   |                     |                     |
| Personnel (incremental)         | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| Operating (incremental)         | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>         | <b>\$ -</b>         |

## Water Meters – 00780

|  |  |   |
|--|--|---|
| <b>Department</b><br>Public Utilities<br><b>Magisterial District</b><br>Countywide | <b>Funding Source</b><br>Enterprise Fund<br><b>Project Classification</b><br>Water | <b>Project Location</b><br>Countywide<br><b>Project Type</b><br>Recurring |
|--|--|---|

**Project Description:**

Install water meters on new water service connections to measure the amount of water being delivered to customers.

**Service Impact:**

New water meter installations are necessary to improve the delivery of existing services as water meters are required on all service connections for usage to be read and quantities used determined to ensure accurate customer billing.

**Operating Impact:**

There are no fiscal operating impacts with this project.

**Project Milestones:**

- FY25 funding for this project was \$1,200,000.

**Project Cost Breakdown/Operating Budget Impacts**

| Project Breakdown               | Prior Years         | FY26                | FY27                | FY28                | FY29                | FY30                | Beyond FY30         | Total FY26-35        |
|---------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Planning & Design               | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| Land                            | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| Offsite Improvements/Utilities  | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| Construction                    | \$ 1,200,000        | \$ 1,300,000        | \$ 1,300,000        | \$ 1,300,000        | \$ 1,300,000        | \$ 1,300,000        | \$ 6,500,000        | \$ 13,000,000        |
| Other                           | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| FFE                             | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| <b>Total</b>                    | <b>\$ 1,200,000</b> | <b>\$ 1,300,000</b> | <b>\$ 1,300,000</b> | <b>\$ 1,300,000</b> | <b>\$ 1,300,000</b> | <b>\$ 1,300,000</b> | <b>\$ 6,500,000</b> | <b>\$ 13,000,000</b> |
| <b>Operating Budget Impacts</b> |                     |                     |                     |                     |                     |                     |                     |                      |
| Personnel (incremental)         | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| Operating (incremental)         | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>          |

## Water Treatment Facility Improvement – 08171

|  |  |   |
|--|--|---|
| <b>Department</b><br>Public Utilities      | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>10111 Three Chopt Road |
| <b>Magisterial District</b><br>Three Chopt | <b>Project Classification</b><br>Water   | <b>Project Type</b><br>Recurring                  |

### Project Description:

Design and construct improvements and major repairs and replacements at the Water Treatment Facility necessary to upgrade and maintain the facility.

### Service Impact:

The need for upgrades and repairs to the Water Treatment Facility is determined from on-going operations and maintenance programs, from the master utility plan and facility assessments.

### Operating Impact:

There are no fiscal operating impacts with this project.

### Project Milestones:

- FY25 funding for this project was \$2,000,000.

### Project Locations:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years         | FY26                | FY27                | FY28                | FY29                | FY30                | Beyond FY30          | Total FY26-35        |
|---------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|
| Planning & Design               | \$ 400,000          | \$ 400,000          | \$ 400,000          | \$ 400,000          | \$ 400,000          | \$ 400,000          | \$ 12,000,000        | \$ 14,000,000        |
| Land                            | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Offsite Improvements/Utilities  | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Construction                    | \$ 1,600,000        | \$ 1,600,000        | \$ 1,600,000        | \$ 1,600,000        | \$ 1,600,000        | \$ 1,600,000        | \$ -                 | \$ 8,000,000         |
| Other                           | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| FFE                             | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| <b>Total</b>                    | <b>\$ 2,000,000</b> | <b>\$ 2,000,000</b> | <b>\$ 2,000,000</b> | <b>\$ 2,000,000</b> | <b>\$ 2,000,000</b> | <b>\$ 2,000,000</b> | <b>\$ 12,000,000</b> | <b>\$ 22,000,000</b> |
| <b>Operating Budget Impacts</b> |                     |                     |                     |                     |                     |                     |                      |                      |
| Personnel (incremental)         | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| Operating (incremental)         | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>          | <b>\$ -</b>          |

## Lead and Copper Program – New

|                             |                               |                         |
|-----------------------------|-------------------------------|-------------------------|
| <b>Department</b>           | <b>Funding Source</b>         | <b>Project Location</b> |
| Public Utilities            | Enterprise Fund               | Countywide              |
| <b>Magisterial District</b> | <b>Project Classification</b> | <b>Project Type</b>     |
| Countywide                  | Water (New)                   | Recurring               |

### Project Description:

Inspect water service lines in the County to determine if lead or copper is present and replace existing lead water service connections in accordance with the Lead and Copper Rule.

### Service Impact:

To improve levels of efficiency.

### Operating Impact:

There are no fiscal operating impacts with this project.

### Project Milestones:

- In 1991, U.S. Environmental Protection Agency (EPA) established the Lead and Copper Rule (LCR) to protect public health and reduce exposure to lead and copper in drinking water. Since 1991, the LCR has undergone various revisions. EPA's 2021 Revised Lead and Copper Rule better protects communities and children at schools and childcare facilities from the risks of lead exposure by getting the lead out of our nation's drinking water, and empowering communities through information.
- The Lead and Copper Rule Revisions (LCRR) require the County to have an initial service line inventory, notification to persons served of known or potential lead service line, Tier 1 public notification of a lead action level exceedance, and associated reporting requirements. The Lead and Copper Rule Improvements (LCRI) were effective in October 2024 and require that any lead water service lines on the public or private side be replaced.
- County has 51,000 unknown material water service lines based on current inventory completed October 2024.

### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26                | FY27        | FY28                | FY29        | FY30                | Beyond FY30         | Total FY26-35        |
|---------------------------------|-------------|---------------------|-------------|---------------------|-------------|---------------------|---------------------|----------------------|
| Planning & Design               | \$ -        | \$ 1,000,000        | \$ -        | \$ 1,000,000        | \$ -        | \$ 1,000,000        | \$ 1,000,000        | \$ 4,000,000         |
| Land                            | \$ -        | \$ -                | \$ -        | \$ -                | \$ -        | \$ -                | \$ -                | \$ -                 |
| Offsite Improvements/Utilities  | \$ -        | \$ -                | \$ -        | \$ -                | \$ -        | \$ -                | \$ -                | \$ -                 |
| Construction                    | \$ -        | \$ 4,000,000        | \$ -        | \$ 4,000,000        | \$ -        | \$ 4,000,000        | \$ 4,000,000        | \$ 16,000,000        |
| Other                           | \$ -        | \$ -                | \$ -        | \$ -                | \$ -        | \$ -                | \$ -                | \$ -                 |
| FFE                             | \$ -        | \$ -                | \$ -        | \$ -                | \$ -        | \$ -                | \$ -                | \$ -                 |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ 5,000,000</b> | <b>\$ -</b> | <b>\$ 5,000,000</b> | <b>\$ -</b> | <b>\$ 5,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 20,000,000</b> |
| <b>Operating Budget Impacts</b> |             |                     |             |                     |             |                     |                     |                      |
| Personnel (incremental)         | \$ -        | \$ -                | \$ -        | \$ -                | \$ -        | \$ -                | \$ -                | \$ -                 |
| Operating (incremental)         | \$ -        | \$ -                | \$ -        | \$ -                | \$ -        | \$ -                | \$ -                | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>          |

## Eastern Water Transmission Main – Long Term Option - New

|  |  |  |
|--|--|--|
| <b>Department</b><br>Public Utilities    | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>Lydell Drive to Charles City Road |
| <b>Magisterial District</b><br>Fairfield | <b>Project Classification</b><br>Water   | <b>Project Type</b><br>Non-Recurring                         |

### Project Description:

Ensure adequate pressure and supply to water pressure zones in Eastern Henrico County. Install 70,000 LF of 48" water main, 37,000 LF of 42" water main and a 40 MGD water booster pump station.

### Service Impact:

This project was identified in the East End Water System Report of February 2025 by Whitman Requardt and Associates.

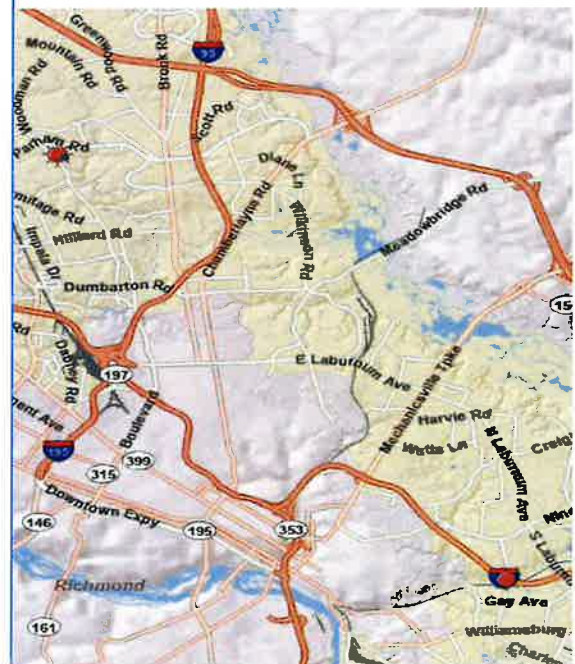
### Operating Impact:

Improve water supply and pressure to Laburnum Azalea water pressure zone and Greater Eubank water pressure zones.

### Project Milestones:

- Route Study completed by Spring 2026
- Design completed by Spring 2029
- Construction completed by 2034

### Project Location:



| Project Breakdown               | Prior Years | FY26                 | FY27                 | FY28                 | FY29                 | FY30                 | Beyond FY30          | Total FY26-35         |
|---------------------------------|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
| Planning & Design               | \$ -        | \$ 8,000,000         | \$ 8,000,000         | \$ 8,000,000         | \$ 8,000,000         | \$ 8,000,000         | \$ 8,000,000         | \$ 48,000,000         |
| Land                            | \$ -        | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                  |
| Offsite Improvements/Utilities  | \$ -        | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                  |
| Construction                    | \$ -        | \$ 42,000,000        | \$ 42,000,000        | \$ 42,000,000        | \$ 42,000,000        | \$ 42,000,000        | \$ 42,000,000        | \$ 252,000,000        |
| Other                           | \$ -        | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                  |
| FFE                             | \$ -        | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                  |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ 50,000,000</b> | <b>\$ 50,000,000</b> | <b>\$ 50,000,000</b> | <b>\$ 50,000,000</b> | <b>\$ 50,000,000</b> | <b>\$ 50,000,000</b> | <b>\$ 300,000,000</b> |
| <b>Operating Budget Impacts</b> |             |                      |                      |                      |                      |                      |                      |                       |
| Personnel (incremental)         | \$ -        | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                  |
| Operating (incremental)         | \$ -        | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                  |
| Capital (incremental)           | \$ -        | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                  |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>          | <b>\$ -</b>           |

## Bethlehem Road Water and Sewer Improvements - 09706

|  |  |   |
|--|--|---|
| <b>Department</b><br>Public Utilities    | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>Bethlehem Road from Boyle Street to<br>Staples Mill Road |
| <b>Magisterial District</b><br>Fairfield | <b>Project Classification</b><br>Water   | <b>Project Type</b><br>Non-Recurring  |

### Project Description:

Installation of water main and sewer on Bethlehem Road.

### Service Impact:

Address demands of growth and development of Henrico County.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- FY25 funding for the project was \$1,000,000.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years         | FY26                | FY27        | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35       |
|---------------------------------|---------------------|---------------------|-------------|-------------|-------------|-------------|-------------|---------------------|
| Planning & Design               | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Land                            | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Offsite Improvements/Utilities  | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Construction                    | \$ 1,000,000        | \$ 1,000,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 1,000,000        |
| Other                           | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| FFE                             | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total</b>                    | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 1,000,000</b> |
| <b>Operating Budget Impacts</b> |                     |                     |             |             |             |             |             |                     |
| Personnel (incremental)         | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Operating (incremental)         | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         |

## Technology Boulevard 24" Water Main - 06121

|                                       |  |  |
|---------------------------------------|--|--|
| <b>Department</b><br>Public Utilities | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>Williamsburg Road to Memorial Drive |
| <b>Magisterial District</b><br>Varina | <b>Project Classification</b><br>Water   | <b>Project Type</b><br>Non-Recurring                           |

### Project Description:

Design and construct 3,300 LF of 24" water main from Williamsburg Road to Memorial Drive.

### Service Impact:

Additional capacity is needed to meet projected demands in eastern Henrico for projected growth especially in the White Oak Technology Park. Recommended by Greeley and Hansen in a 2016 East End Water Supply Evaluation as an amendment to the 2007 Water and Sewer Facility Plan.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Planning and Construction scheduled for FY26.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26                | FY27        | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35       |
|---------------------------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|---------------------|
| Planning & Design               | \$ -        | \$ 500,000          | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 500,000          |
| Land                            | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Offsite Improvements/Utilities  | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Construction                    | \$ -        | \$ 1,700,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 1,700,000        |
| Other                           | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| FFE                             | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ 2,200,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 2,200,000</b> |
| <b>Operating Budget Impacts</b> |             |                     |             |             |             |             |             |                     |
| Personnel (incremental)         | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Operating (incremental)         | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         |

## Williamsburg Road 24" Water Main - 06124

**Department**  
Public Utilities  
**Magisterial District**  
Varina

**Funding Source**  
Enterprise Fund  
**Project Classification**  
Water

**Project Location**  
Memorial Drive to Old Williamsburg Road  
**Project Type**  
Non-Recurring

### Project Description:

Design and construct 4,300 LF of 24" water main from Memorial Drive to Old Williamsburg Road.

### Service Impact:

Additional capacity is needed to meet projected demands in eastern Henrico for projected growth especially in the White Oak Technology Park. Recommended by Greeley and Hansen in a 2016 East End Water Supply Evaluation as an amendment to the 2007 Water and Sewer Facility Plan.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Planning and Construction scheduled for FY26.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26                | FY27        | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35       |
|---------------------------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|---------------------|
| Planning & Design               | \$ -        | \$ 700,000          | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 700,000          |
| Land                            | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Offsite Improvements/Utilities  | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Construction                    | \$ -        | \$ 1,800,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 1,800,000        |
| Other                           | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| FFE                             | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ 2,500,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 2,500,000</b> |
| <b>Operating Budget Impacts</b> |             |                     |             |             |             |             |             |                     |
| Personnel (incremental)         | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Operating (incremental)         | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         |

## Memorial Drive 30" Water Main - New

**Department**  
Public Utilities  
**Magisterial District**  
Varina

**Funding Source**  
Enterprise Fund  
**Project Classification**  
Water (New)

**Project Location**  
Technology Blvd to Portugee Road  
**Project Type**  
Non-Recurring

### Project Description:

Design and construct 5,000 LF of 30" water main from Technology Boulevard to Portugee Road.

### Service Impact:

Additional capacity is needed to meet projected demands in eastern Henrico for projected growth, especially in the White Oak Technology Park. Recommended by Greeley and Hansen in a 2016 East End Water Supply Evaluation as an amendment to the 2007 Water and Sewer Facility Plan.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Planning and Construction scheduled for FY26.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26                | FY27        | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35       |
|---------------------------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|---------------------|
| Planning & Design               | \$ -        | \$ 800,000          | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 800,000          |
| Land                            | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Offsite Improvements/Utilities  | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Construction                    | \$ -        | \$ 3,200,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 3,200,000        |
| Other                           | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| FFE                             | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ 4,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 4,000,000</b> |
| <b>Operating Budget Impacts</b> |             |                     |             |             |             |             |             |                     |
| Personnel (incremental)         | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Operating (incremental)         | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         |

## Old Williamsburg Water Pumping Station - 08556

|                             |                               |  |
|-----------------------------|-------------------------------|--|
| <b>Department</b>           | <b>Funding Source</b>         | <b>Project Location</b>                |
| Public Utilities            | Enterprise Fund               | Old Williamsburg Rd and Memorial Drive |
| <b>Magisterial District</b> | <b>Project Classification</b> | <b>Project Type</b>                    |
| Varina                      | Water                         | Non-Recurring                          |

### Project Description:

Design and construct a 10 MGD water pumping station to increase the water system supply from 16.7 MGD to 25.5 MGD in the Eubank Pressure Zone in Eastern Henrico.

### Service Impact:

Additional capacity is needed to meet projected demands in eastern Henrico for projected growth, especially in the White Oak Technology Park. Recommended in a 2016 East End Water Supply Evaluation as an amendment to the 2007 Water and Sewer Facility Plan.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Planning and Construction scheduled for FY26.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26                | FY27        | FY28        | FY29        | FY30        | Beyond FY30         | Total FY26-35       |
|---------------------------------|-------------|---------------------|-------------|-------------|-------------|-------------|---------------------|---------------------|
| Planning & Design               | \$ -        | \$ 800,000          | \$ -        | \$ -        | \$ -        | \$ -        | \$ 3,000,000        | \$ 3,800,000        |
| Land                            | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                | \$ -                |
| Offsite Improvements/Utilities  | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                | \$ -                |
| Construction                    | \$ -        | \$ 3,200,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                | \$ 3,200,000        |
| Other                           | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                | \$ -                |
| FFE                             | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                | \$ -                |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ 4,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 3,000,000</b> | <b>\$ 7,000,000</b> |
| <b>Operating Budget Impacts</b> |             |                     |             |             |             |             |                     |                     |
| Personnel (incremental)         | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                | \$ -                |
| Operating (incremental)         | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b>         |

## Richmond Henrico Water Main - 09704

**Department**  
Public Utilities

**Funding Source**  
Enterprise Fund

**Project Location**  
Richmond Henrico Turnpike from Laburnum  
Avenue to Azalea Avenue

**Magisterial District**  
Fairfield

**Project Classification**  
Water

**Project Type**  
Non-Recurring

### Project Description:

Construct 16" water main in Richmond Henrico Turnpike from Laburnum Avenue to Azalea Avenue.

### Service Impact:

Project will be timed with DPW construction schedule to minimize future impacts on the roadway.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- FY25 funding for the project was \$3,400,000.
- Construction scheduled for FY26.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years         | FY26              | FY27        | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35     |
|---------------------------------|---------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------------|
| Planning & Design               | \$ -                | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| Land                            | \$ -                | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| Offsite Improvements/Utilities  | \$ -                | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| Construction                    | \$ 3,400,000        | \$ 600,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 600,000        |
| Other                           | \$ -                | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| FFE                             | \$ -                | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| <b>Total</b>                    | <b>\$ 3,400,000</b> | <b>\$ 600,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 600,000</b> |
| <b>Operating Budget Impacts</b> |                     |                   |             |             |             |             |             |                   |
| Personnel (incremental)         | \$ -                | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| Operating (incremental)         | \$ -                | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| <b>Total Operating Impact</b>   | <b>\$ -</b>         | <b>\$ -</b>       | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>       |

## Three Chopt Road Water Main Improvements - 09705

|  |  |   |
|--|--|---|
| <b>Department</b><br>Public Utilities      | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>Three Chopt Road from Gaskins Road to John Rolfe Parkway |
| <b>Magisterial District</b><br>Three Chopt | <b>Project Classification</b><br>Water   | <b>Project Type</b><br>Non-Recurring  |

### Project Description:

Installation of water main on Three Chopt Road.

### Service Impact:

Project will be timed with DPW construction schedule to minimize future impacts on the roadway.

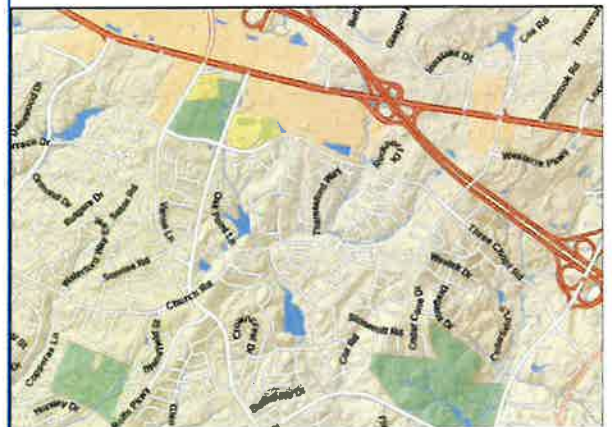
### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- FY25 funding for the project was \$2,000,000.
- Construction scheduled for FY26.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years         | FY26              | FY27        | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35     |
|---------------------------------|---------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------------|
| Planning & Design               | \$ -                | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| Land                            | \$ -                | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| Offsite Improvements/Utilities  | \$ -                | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| Construction                    | \$ 2,000,000        | \$ 750,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 750,000        |
| Other                           | \$ -                | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| FFE                             | \$ -                | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| <b>Total</b>                    | <b>\$ 2,000,000</b> | <b>\$ 750,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 750,000</b> |
| <b>Operating Budget Impacts</b> |                     |                   |             |             |             |             |             |                   |
| Personnel (Incremental)         | \$ -                | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| Operating (Incremental)         | \$ -                | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| <b>Total Operating Impact</b>   | <b>\$ -</b>         | <b>\$ -</b>       | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>       |

## Magellan Parkway Water Main Improvements - New

|  |  |  |
|--|--|--|
| <b>Department</b><br>Public Utilities    | <b>Funding Source</b><br>Enterprise Fund     | <b>Project Location</b><br>Magellan Parkway Bridge and Road<br>Relocation over I95 |
| <b>Magisterial District</b><br>Fairfield | <b>Project Classification</b><br>Water (New) | <b>Project Type</b><br>Non-Recurring   |

### Project Description:

Installation of water main in Magellan Parkway to coordinate with DPW project.

### Service Impact:

Project will be timed with DPW construction schedule to minimize future impacts on the roadway.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Construction scheduled for FY26.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26                | FY27        | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35       |
|---------------------------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|---------------------|
| Planning & Design               | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Land                            | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Offsite Improvements/Utilities  | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Construction                    | \$ -        | \$ 3,100,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 3,100,000        |
| Other                           | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| FFE                             | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ 3,100,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 3,100,000</b> |
| <b>Operating Budget Impacts</b> |             |                     |             |             |             |             |             |                     |
| Personnel (incremental)         | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Operating (incremental)         | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         |

## Water and Sewer Infill Program - New

|                             |                               |                         |
|-----------------------------|-------------------------------|-------------------------|
| <b>Department</b>           | <b>Funding Source</b>         | <b>Project Location</b> |
| Public Utilities            | General Fund                  | Countywide              |
| <b>Magisterial District</b> | <b>Project Classification</b> | <b>Project Type</b>     |
| Countywide                  | Water (New)                   | Non-Recurring           |

### Project Description:

Installation of water and sewer main to provide service to existing homes on well and septic systems.

### Service Impact:

Improve the scope of services.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Covers connections for households formerly on well and septic systems.

### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26                | FY27                | FY28                | FY29                | FY30                | Beyond FY30         | Total FY26-35        |
|---------------------------------|-------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Planning & Design               | \$ -        | \$ 300,000          | \$ 300,000          | \$ 300,000          | \$ 300,000          | \$ 300,000          | \$ 5,000,000        | \$ 6,500,000         |
| Land                            | \$ -        | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| Offsite Improvements/Utilities  | \$ -        | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| Construction                    | \$ -        | \$ 700,000          | \$ 700,000          | \$ 700,000          | \$ 700,000          | \$ 700,000          | \$ -                | \$ 3,500,000         |
| Other                           | \$ -        | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| FFE                             | \$ -        | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ 1,000,000</b> | <b>\$ 5,000,000</b> | <b>\$ 10,000,000</b> |
| <b>Operating Budget Impacts</b> |             |                     |                     |                     |                     |                     |                     |                      |
| Personnel (incremental)         | \$ -        | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| Operating (incremental)         | \$ -        | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                | \$ -                 |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ -</b>          |

## Sadler Road 12" Water Line - 06118

|  |  |   |
|--|--|---|
| <b>Department</b><br>Public Utilities      | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>Sadler Road from Old Sadler Grove Road to<br>Sadler Grove Road |
| <b>Magisterial District</b><br>Three Chopt | <b>Project Classification</b><br>Sewer   | <b>Project Type</b><br>Non-Recurring  |

### Project Description:

Design and construct approximately 7,700 feet of 12" water main with the widening of Sadler Rd.

### Service Impact:

Water mains are extended with construction of new roads in accordance with the utility master plan to address the demands of growth and development of the County. Project will be timed with DPW construction schedule to minimize future impacts on the roadway.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- FY25 funding for the project was \$3,600,000.
- Construction scheduled for FY27.

### Project Location:



| Project Cost Breakdown/Operating Budget Impacts |                     |             |                     |             |             |             |             |                     |
|---|---------------------|-------------|---------------------|-------------|-------------|-------------|-------------|---------------------|
| Project Breakdown                               | Prior Years         | FY26        | FY27                | FY28        | FY29        | FY30        | Beyond FY30 | Total FY26-35       |
| Planning & Design                               | \$ -                | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Land  | \$ -                | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Offsite Improvements/Utilities                  | \$ -                | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Construction                                    | \$ 3,600,000        | \$ -        | \$ 1,000,000        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 1,000,000        |
| Other   | \$ -                | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| FFE   | \$ -                | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total</b>                                    | <b>\$ 3,600,000</b> | <b>\$ -</b> | <b>\$ 1,000,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 1,000,000</b> |
| <b>Operating Budget Impacts</b>                 |                     |             |                     |             |             |             |             |                     |
| Personnel (incremental)                         | \$ -                | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| Operating (incremental)                         | \$ -                | \$ -        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                |
| <b>Total Operating Impact</b>                   | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         |

## Ridge Water Pressure Zone – 06615

|  |  |  |
|--|--|--|
| <b>Department</b><br>Public Utilities<br><b>Magisterial District</b><br>Tuckahoe | <b>Funding Source</b><br>Enterprise Fund<br><b>Project Classification</b><br>Water | <b>Project Location</b><br>Henrico Avenue and Ridge Road<br><b>Project Type</b><br>Non-Recurring |
|--|--|--|

### Project Description:

Design and construct 3,000 LF of 12" water main and 6 PRV's.

### Service Impact:

Provide additional capacity for increasing growth demands and for wet weather flows. The need for this project was identified in the 2007 Water and Sewer Facility Plan prepared by Greeley and Hansen.

### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Design and Construction scheduled for FY29.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26        | FY27        | FY28        | FY29                | FY30        | Beyond FY30 | Total FY26-35       |
|---------------------------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|---------------------|
| Planning & Design               | \$ -        | \$ -        | \$ -        | \$ -        | \$ 800,000          | \$ -        | \$ -        | \$ 800,000          |
| Land                            | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                |
| Offsite Improvements/Utilities  | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                |
| Construction                    | \$ -        | \$ -        | \$ -        | \$ -        | \$ 2,700,000        | \$ -        | \$ -        | \$ 2,700,000        |
| Other                           | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                |
| FFE                             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                |
| <b>Total</b>                    | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 3,500,000</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 3,500,000</b> |
| <b>Operating Budget Impacts</b> |             |             |             |             |                     |             |             |                     |
| Personnel (incremental)         | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                |
| Operating (incremental)         | \$ -        | \$ -        | \$ -        | \$ -        | \$ -                | \$ -        | \$ -        | \$ -                |
| <b>Total Operating Impact</b>   | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>         |

## Woodman Road Water Main – 08162

|  |  |   |
|--|--|---|
| <b>Department</b><br>Public Utilities    | <b>Funding Source</b><br>Enterprise Fund | <b>Project Location</b><br>Woodman Road from Mountain Road to<br>Hungary Road |
| <b>Magisterial District</b><br>Fairfield | <b>Project Classification</b><br>Water   | <b>Project Type</b><br>Non-Recurring  |

### Project Description:

Design and construct rehabilitation of water main along Woodman Road.

### Service Impact:

Provide for additional capacity for increasing growth demands. Projects to be coordinated with DPW road improvements.

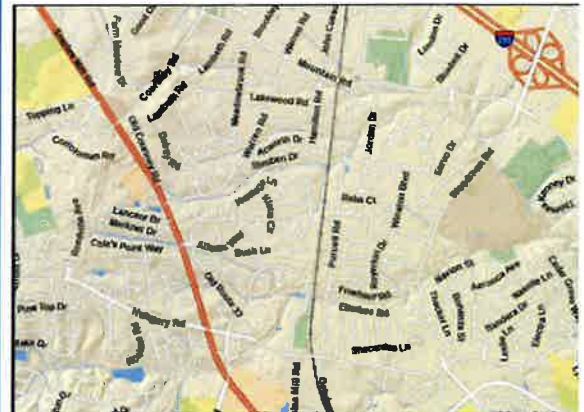
### Operating Impact:

There are no fiscal operating impacts associated with this project.

### Project Milestones:

- Construction scheduled for FY29.

### Project Location:



### Project Cost Breakdown/Operating Budget Impacts

| Project Breakdown               | Prior Years | FY26 | FY27 | FY28 | FY29         | FY30 | Beyond FY30 | Total FY26-35 |
|---------------------------------|-------------|------|------|------|--------------|------|-------------|---------------|
| Planning & Design               | \$ -        | \$ - | \$ - | \$ - | \$ -         | \$ - | \$ -        | \$ -          |
| Land                            | \$ -        | \$ - | \$ - | \$ - | \$ -         | \$ - | \$ -        | \$ -          |
| Offsite Improvements/Utilities  | \$ -        | \$ - | \$ - | \$ - | \$ -         | \$ - | \$ -        | \$ -          |
| Construction                    | \$ -        | \$ - | \$ - | \$ - | \$ 4,000,000 | \$ - | \$ -        | \$ 4,000,000  |
| Other                           | \$ -        | \$ - | \$ - | \$ - | \$ -         | \$ - | \$ -        | \$ -          |
| FFE                             | \$ -        | \$ - | \$ - | \$ - | \$ -         | \$ - | \$ -        | \$ -          |
| <b>Total</b>                    | \$ -        | \$ - | \$ - | \$ - | \$ 4,000,000 | \$ - | \$ -        | \$ 4,000,000  |
| <b>Operating Budget Impacts</b> |             |      |      |      |              |      |             |               |
| Personnel (incremental)         | \$ -        | \$ - | \$ - | \$ - | \$ -         | \$ - | \$ -        | \$ -          |
| Operating (incremental)         | \$ -        | \$ - | \$ - | \$ - | \$ -         | \$ - | \$ -        | \$ -          |
| <b>Total Operating Impact</b>   | \$ -        | \$ - | \$ - | \$ - | \$ -         | \$ - | \$ -        | \$ -          |

**COST OF WATER FROM THE CITY OF RICHMOND & PILT (PAYMENT IN LIEU OF TAXES) COSTS**

| <b>FISCAL YEAR</b> | <b>PILT COSTS (ACTUAL)</b> | <b>COST OF SERVICE</b> | <b>WATER PURCHASED (CCF)</b> | <b>AVERAGE COST PER CCF</b> | <b>NOTES</b>  |
|--------------------|----------------------------|------------------------|------------------------------|-----------------------------|---|
| 1983               | N/A                        | \$ 2,511,582           | 7,441,725                    | \$ 0.34                     | Actual Costs (based on Cost of Service Study), includes surcharge for Korah |
| 1984               | N/A                        | \$ 3,981,002           | 8,910,032                    | \$ 0.45                     | Actual Costs (based on Cost of Service Study), includes surcharge for Korah |
| 1985               | N/A                        | \$ 3,944,117           | 9,098,310                    | \$ 0.43                     | Actual Costs (based on Cost of Service Study)                               |
| 1986               | N/A                        | \$ 5,415,674           | 9,368,390                    | \$ 0.58                     | Actual Costs (based on Cost of Service Study)                               |
| 1987               | N/A                        | \$ 5,748,174           | 9,676,620                    | \$ 0.59                     | Actual Costs (based on Cost of Service Study)                               |
| 1988               | N/A                        | \$ 5,592,970           | 10,085,612                   | \$ 0.55                     | Actual Costs (based on Cost of Service Study)                               |
| 1989               | N/A                        | \$ 6,319,634           | 10,743,146                   | \$ 0.59                     | Actual Costs (based on Cost of Service Study)                               |
| 1990               | N/A                        | \$ 6,856,874           | 10,877,442                   | \$ 0.63                     | Actual Costs (based on Cost of Service Study)                               |
| 1991               | N/A                        | \$ 7,645,313           | 12,222,554                   | \$ 0.63                     | Actual Costs (based on Cost of Service Study)                               |
| 1992               | N/A                        | \$ 7,810,950           | 12,798,428                   | \$ 0.61                     | Actual Costs (based on Cost of Service Study)                               |
| 1993               | N/A                        | \$ 9,103,133           | 12,367,495                   | \$ 0.74                     | Actual Costs (based on Cost of Service Study)                               |
| 1994               | N/A                        | \$ 9,114,653           | 12,784,105                   | \$ 0.71                     | Actual Costs (based on Cost of Service Study)                               |
| 1995               | N/A                        | \$ 9,574,184           | 13,163,935                   | \$ 0.73                     | Actual Costs (based on Cost of Service Study)                               |

| FISCAL YEAR | PILT COSTS (ACTUAL) | COST OF SERVICE | WATER PURCHASED (CCF) | AVERAGE COST PER CCF | NOTES   |
|-------------|---------------------|-----------------|-----------------------|----------------------|---|
| 1996        | N/A                 | \$ 9,165,528    | 12,686,511            | \$ 0.72              | Actual Costs (based on Cost of Service Study)       |
| 1997        | N/A                 | \$ 9,466,689    | 12,063,880            | \$ 0.78              | Actual Costs (based on Cost of Service Study)       |
| 1998        | N/A                 | \$ 9,882,848    | 14,252,973            | \$ 0.69              | Actual Costs (based on Cost of Service Study)       |
| 1999        | N/A                 | \$ 10,506,845   | 16,815,041            | \$ 0.62              | Actual Costs (based on Cost of Service Study)       |
| 2000        | N/A                 | \$ 11,422,562   | 16,831,370            | \$ 0.68              | Actual Costs (based on Cost of Service Study)       |
| 2001        | N/A                 | \$ 11,697,630   | 17,192,170            | \$ 0.68              | Actual Costs (based on Cost of Service Study)       |
| 2002        | N/A                 | \$ 11,618,204   | 18,445,360            | \$ 0.63              | Actual Costs (based on Cost of Service Study)       |
| 2003        | N/A                 | \$ 11,506,065   | 16,521,822            | \$ 0.70              | Actual Costs (based on Cost of Service Study)       |
| 2004        | N/A                 | \$ 12,286,845   | 15,134,180            | \$ 0.81              | Cost based on Draft Cost of Service Study           |
| 2005        | N/A                 | \$ 8,275,815    | 8,360,462             | \$ 0.99              |   |
| 2006        | N/A                 | \$ 8,459,576    | 8,011,337             | \$ 1.06              |   |
| 2007        | N/A                 | \$ 8,343,733    | 7,351,077             | \$ 1.14              |   |
| 2008        | N/A                 | \$ 8,350,959    | 7,276,216             | \$ 1.15              |   |
| 2009        | N/A                 | \$ 9,470,301    | 7,832,594             | \$ 1.21              |   |
| 2010        | N/A                 | \$ 9,541,768    | 5,948,611             | \$ 1.60              |   |
| 2011        | N/A                 | \$ 9,014,032    | 5,872,151             | \$ 1.54              | City agreed to change in calculation                |
| 2012        | N/A                 | \$ 11,317,081   | 6,521,156             | \$ 1.74              | City pulled off the table the change in calculation |
| 2013        | N/A                 | \$ 10,955,211   | 6,465,909             | \$ 1.69              |   |

| FISCAL YEAR  | PILT COSTS (ACTUAL) | COST OF SERVICE       | WATER PURCHASED (CCF) | AVERAGE COST PER CCF | NOTES  |
|--------------|---------------------|-----------------------|-----------------------|----------------------|--|
| 2014         | N/A                 | \$ 11,092,817         | 5,661,175             | \$ 1.96              | COS 2014 rec'd november 2015 paid to City 2/16       |
| 2015         | N/A                 | \$ 11,014,787         | 6,355,236             | \$ 1.73              | COS 2015 rec'd november 2016 paid to City 1/17       |
| 2016         | N/A                 | \$ 10,704,441         | 5,803,601             | \$ 1.84              | COS 2016 rec'd June 2017 paid to City 6/17           |
| 2017         | N/A                 | \$ 11,506,790         | 6,171,227             | \$ 1.86              | COS 2017 rec'd December 2017 to be paid to City 6/18 |
| 2018         | N/A                 | \$ 11,919,658         | 7,186,483             | \$ 1.66              | COS 2018 rec'd December 2018                         |
| 2019         | N/A                 | \$ 13,095,682         | 6,318,674             | \$ 2.07              | COS 2019 rec'd February 2020                         |
| 2020         | N/A                 | \$ 11,731,101         | 6,236,803             | \$ 1.88              | COS 2020 rec'd December 2020                         |
| 2021         | \$19,297,081        | \$ 11,365,538         | 6,039,196             | \$ 1.88              | COS 2021 rec'd April 2022                            |
| 2022         | \$21,078,215        | \$ 12,614,868         | 5,450,940             | \$ 2.31              | COS 2022 rec'd April 2023                            |
| 2023         | \$20,253,010        | \$ 12,532,419         | 6,200,000             | \$ 2.02              | budget   |
| 2024         | \$21,154,539        |                       |                       |                      |  |
| 2025         | \$21,954,066        |                       |                       |                      |  |
| 2026         | \$23,811,328        |                       |                       |                      |  |
| <b>TOTAL</b> |                     | <b>\$ 382,478,054</b> |                       |                      |  |

**OTHER UTILITY PAYMENTS TO GENERAL FUND:**

| SERVICE:           | AMOUNT:             |
|--------------------|---------------------|
| DPU City Services  | \$2.5 million range |
| Collection Service | \$140,000 range     |