



## THE AUDITOR OF PUBLIC ACCOUNTS LOCALITY STORMWATER UTILITY REPORTING FORM

The purpose of this form is to implement the following locality stormwater utility reporting requirement established by Paragraph D.1. of Item 2 of the Fiscal Year 2021-2022 State Budget ([Chapter 552](#) of the 2021 Acts of Assembly): *Each locality establishing a utility or enacting a system of service charges to support a local stormwater management program pursuant to §15.2-2114, Code of Virginia, shall provide to the Auditor of Public Accounts by October 1 of each year, in a format specified by the Auditor, a report as to each program funded by these fees and the expected nutrient and sediment reductions for each of these programs. For any specific stormwater outfall generating more than \$200,000 in annual fees, such report shall include identification of specific actions to remediate nutrient and sediment reduction from the specific outfall.*

Each locality subject to the reporting requirement set forth above should complete and submit this report form each year to the Auditor of Public Accounts by October 1, in an electronic format emailed to [LocalGovernment@apa.virginia.gov](mailto:LocalGovernment@apa.virginia.gov). **The report for the Fiscal Year 2021 (or applicable reporting period) is due by October 1, 2021.**

### SECTION 1 – LOCALITY INFORMATION

**Locality Name:** City of Norfolk  
**Contact Name/Title:** June Whitehurst, Environmental Programs Manager  
**Contact Address:** 2233 McKann Avenue, Norfolk, VA 23509  
**Contact Email:** June.whitehurst@norfolk.gov  
**Contact Phone:** 757-823-4005  
**Report Completion Date:**

### SECTION 2 - STORMWATER UTILITY FEES

*For your stormwater utility fees provide the following information from your current fiscal year or most recent audited annual financial report. (Note: “Draft” or preliminary amounts from the current fiscal year may be submitted due to the timing of this report’s October 1 deadline, which is prior to a locality’s annual audited financial report deadline of December 15.)*

**Financial Statement Fund Name:** Environmental Storm Water Fund

**Fiscal year:** 2021

Revenues	Expenditures	Ending Fund Balance or Net Position
22,468,049	16,199,280	40,071,728
<b>If necessary, provide any additional detail/clarification below about the financial information provided at Section 2.</b>  The above amounts are unaudited		

## SECTION 3 – FUNDED PROGRAMS AND OTHER MAJOR ACTIVITIES

*Provide a brief description of each major program funded by the utility fee system and, where applicable, the expected nutrient and sediment reductions for each of these programs.*

### A. Operations & Maintenance Program

The City of Norfolk's stormwater fees were established to residential and non-residential properties throughout the City to be used for the operation, maintenance and repair of the storm water system and to address water quality improvement and flood reduction. It also provides administrative and overhead costs related to the management of the storm water maintenance programs. Outlined below are the key components to the storm water management program.

Storm Water Operations – The storm water system requires routine and emergency maintenance and repair to ensure it continues to function to avoid flooding and improve water quality. Storm Water Operations covers all aspects of the operations and maintenance of the City's storm water infrastructure.

The Division's Operations setup is comprised of the following primary components.

- Stormwater Structure and Pipe inspection
- Stormwater Structure and Pipe cleaning
- Stormwater Structure and Pipe Repair
- Ditch Cleaning and Grading
- Lot Cleaning / Illegal Dumping Prevention & Abatement
- City-owned structural BMP Maintenance, including pond aeration systems
- Pump Station and other Mechanical Systems
- Flood Gate Maintenance and Operation
- Emergency Response

Street Sweeping Operations – The streets sweeping operations removes pollutants, litter, sediment, etc. from the street prior to it entering the City's storm water system ultimately clogging the storm water system or polluting the natural waterways. Street Sweeping is primarily responsible for the sweeping of all of the City's curbed streets. Crews and equipment provide daily street-cleaning operations in the downtown business district and monthly street-sweeping in all other areas of the City.

The Division's street sweeping program is comprised of the primary components.

- Downtown business district - Swept daily 11:00 p.m. and 6 a.m., Sunday night through Friday morning.
- City-wide streets with curb and gutters (except downtown) - Swept monthly Tuesday through Friday, with Monday as a make-up day. The monthly sweeping cycle is completed in four weeks.
- Underpasses and dead ends – Swept by hand to support the street sweeping efforts.
- Norfolk Redevelopment Housing Authority communities - Swept twice per month, once with a regular mechanical sweeper and once with a mini-vacuum sweeper.
- Primary roads - Swept once per month by regenerative air sweepers during night operations.
- Special event - Cleanups occur immediately following parades, races, and other events.
- Municipal yards - Swept based on storm water pollution prevention plans. These usually occur either quarterly or twice per year.
- Norfolk Public School parking lots - Swept twice per year.
- City Parks parking lots – Swept once per quarter.
- City Beach parking lots – Swept every Monday and Friday from Memorial Day to Labor Day.
- Other City parking lots – Swept on a special request basis.

Engineering – The Engineering team is responsible for overseeing and managing large projects that address flooding and water quality improvement. Most of these large projects involve design and construction. The engineering components are listed below:

- Capital Improvement Project Management
  - Neighborhood Flood Reduction
  - Storm Water Quality Improvement
  - Storm Water Facility Improvement
  - Storm Water Waterfront Structures Program
- Major System Repairs or Upgrades
- Site Plan Review – post construction runoff control
- GIS
- Miss Utility Markings

Environmental – The Environmental staff administers the City's Storm Water MS4 Virginia Pollution Discharge Elimination System (VPDES) Phase I permit. The permit outlines the programmatic requirements the City must undertake to reduce pollutants from entering the storm water system to the maximum extent practicable. The team also implements the erosion and sediment control program, storm water management act, and the Chesapeake Bay Preservation Act. The division monitors changes in the storm water regulations, Total Maximum Daily Load, erosion and sediment control, implementation and reporting to both the Federal and State governments to ensure the City remains in compliance with regulatory mandates. The Division's Environmental team manages the following key environmental components:

- Storm Water MS4 Permit Management
  - Annual Report Development
  - EPA and VADEQ Coordination
  - Permit reissuance
  - MS4 Program Plan
- Industrial and Car Wash General Permit Management
- Good housekeeping measures / Pollution Prevention
- Spill Response / Illicit Discharge Detection and Elimination Program
- Storm Water Ordinance Development and Enforcement
- BMP Pre and Post Inspection
- Erosion & Sediment Control Program oversight and enforcement
- Chesapeake Bay Preservation Act program oversight and enforcement
- Virginia Storm Water Management Program oversight and enforcement – program subsidizes whatever the VSMP fees do not cover
- Construction Site runoff control
- Water Quality Monitoring
- Regional Collaboration Membership Organizations
  - Hampton Roads Planning District Commission (HRPDC) Storm Water Committee
  - HRPDC Regional Environmental Committee
  - VA Municipal Stormwater Association (VAMSA)

Public Education and Outreach – The City provides storm water education and outreach and public involvement to individuals and groups throughout the City of Norfolk to address water quality improvement and reduce flooding. The primary responsibilities for the education and outreach program are outlined below:

- Presentation & Education Programs
- Educational Campaigns to address pollutants of concern
- Brochure and Promotional Development
- Special Event Participation
- MS4 Permit Requirements
- Customer Service
- Website Management & Updates
- Coordination with various environmental education groups

- Keep Norfolk Beautiful
- HRPDC HRSTORM
- HRPDC HRCLEAN

General Overhead – The program funds overhead expenses such as storm water fee management and collection, staff training, payroll processing, procurement services, budget development, administrative support, customer service, policy development, safety oversight, dept financing payment, etc.

## **B. Capital Improvement Program**

The Storm Water fee funds the debt payment for the \$16,715,200 CIP budget. This budget is divided into eighteen categories:

- City-wide Flooding Reserve
- Implement Pond Retrofits Citywide
- Implement Shoreline Restoration
- Implement the Green Infrastructure Plan
- Improve 10<sup>th</sup> View Outfall Extension
- Improve East Ocean View Drainage
- Improve Glenrock Drainage
- Improve Overbrook/Coleman Place Drainage
- Improve Gifford Street Drainage
- Improve Glenwood Park Drainage
- Conduct Drainage Studies
- Conduct Outfall Maintenance and Dredging
- Conduct Sliplining and Major Repairs to Existing Infrastructure
- Raise the Downtown Floodwall
- Rehabilitate Colley Avenue Pump Station
- Replace Downtown Pump Station Trash Rack
- Construct the Blue-Greenway in St. Paul's Area
- Improve Storm Water Infrastructure in St. Paul's Area

The \$1,315,200 City-wide flooding creates a citywide flooding reserve to prepare for the larger citywide flooding control projects. This project is funded by the \$1.00 Storm Water fee increase approved in FY2013. Funding is dedicated to support the city's efforts in flood mitigation.

The \$1,290,000 Implement Pond Retrofits Citywide will provide funds to support the implementation of pond retrofit project citywide. Pond retrofits enhance pollutant removal and assist in flood mitigation.

The \$960,000 Implement Shoreline Restoration will provide funds to implement shoreline restoration in various areas across the city. The restoration process involves planting specific vegetation, constructing protective sills, adding sand fill, and creating buffer zones to reduce erosion and allow natural growth to build up the shoreline.

The \$100,000 Implement the Green Infrastructure Plan will provide funds to support the continued implement of the city's Green Infrastructure Plan. The plan involves approaching water management in a manner that protects or restores the natural water cycle. Funds will be used to build bioretention structures, rainwater collection or infiltration systems, and strategically placed vegetation.

The \$500,000 Improve 10<sup>th</sup> View Outfall Extension will provide funds to design and construct improvements to the 10th View outfall extension. This project will extend the outfall beyond the beach replenishment project.

The \$2,000,000 Improve East Ocean View Drainage will provide funds to improve drainage in the East Ocean View area. The current system is rudimentary and undersized. The new system will add storm water infrastructure to manage a 10-year storm.

The \$1,000,000 Improve Glenrock Drainage will provide funds to improve drainage in the Glenrock area. This project will add storm water pipes and inlets to manage a 10-year storm event.

The \$2,000,000 Improve Overbrook/Coleman Place Drainage will provide funds to improve the drainage in the Overbrook/Coleman Place area. Funds will be used for neighborhood flood mitigation to address various drainage system improvements. Funding will allow for infrastructure improvements to better mitigate issues from precipitation and tidal flooding through new inlets and large conduits to convey storm water.

The \$1,000,000 Improve Gifford Street Drainage will provide funds to support drainage improvements along Gifford Street. Funds will be used to improve the storm water system's ability to manage storm events. Funding will allow for infrastructure improvements to better mitigate issues from precipitation and tidal flooding.

The \$500,000 Improve Glenwood Park Drainage will provide funds to improve drainage in the Glenwood Park area. Funds will be used for neighborhood flood mitigation to address various drainage system improvements. Funding will allow for infrastructure improvements to better mitigate issues from precipitation and tidal flooding.

The \$1,000,000 Conduct Drainage Studies will provide funds to study areas in advance of designing for planning purposes to optimize resources and target storm water infrastructure areas with the greatest needs.

The \$650,000 Conduct Outfall Maintenance and Dredging will fund the maintenance and dredging of outfalls citywide. This project includes opening up submerged, clogged outfalls through shoreline or barge dredging.

The \$1,000,000 Conduct Sliplining and Major Repairs to Existing Infrastructure will provide funds to be used to repair and improve existing storm water conveyance pipes by repairing the system using trenchless and other techniques to restore the system to optimal condition. Sliplining is a trenchless method in which a smaller pipe is installed in a larger pipe and then the space between the two pipes is sealed.

The \$1,000,000 Raise Downtown Floodwall will provide funds to raise the elevation of the downtown floodwall between one and two feet, reinforce sections of the wall, and reconstruct all flood gates in order to provide the level of flood protection required by the Federal Emergency Management Agency (FEMA) for the downtown area.

The \$500,000 Rehabilitate Colley Avenue Pump Station will provide funds to rehabilitate the pump station at Colley Avenue. The project will increase pumping capacity of the station and reduce the times the underpass is unavailable due to flooding.

The \$100,000 Replace Downtown Pump Station Trash Rack Fund will replace the downtown pump station's trash rack. The rack has had functional issues over the previous several years. The funds will make the trash rack fully operational reducing the debris entering the river system.

The \$800,000 Construct the Blue-Greenway in St. Paul's Area will provide funds to construct the Blue/Greenway in the St. Paul's Area. Funds will be used for the redevelopment of approximately 26 acres of public housing and other properties into an aesthetic open space designed to treat and store storm water runoff during storm events. This transformation will create a water eco-center comprised of parks, green spaces, and a dynamic living laboratory.

The \$1,000,000 Improve Storm Water Infrastructure in St. Paul's Area will add storm water collection and conveyance infrastructure in the existing and new street network. The project will mitigate precipitation flooding in the area. The project will help provide the infrastructure required to transform the St. Paul's area into a mixed-use, mixed-income development in order to deconcentrate poverty and enact place-based initiatives.