



2016 Stormwater Utility Reporting Form Due to DEQ by October 1, 2016

Name of Locality: City of Chesapeake Phone: (757) 382-6919
Person Completing Survey: Barbara Brumbaugh Date: 09/29/2016
Email: bbrumba@cityofchesapeake.net

The purpose of this form is to implement the following stormwater utility reporting requirement established by Paragraph H.1. of Item 363 of the FY15-16 State Budget: "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 Department of Environmental Quality by October 1 of each year, in a format specified by the Department, a report as to each program funded by these fees and the expected nutrient and sediment reductions for each of these programs."

Each Locality subject to the reporting requirement set forth above shall complete and submit this form to the DEQ by each October 1, to: [Shawn Smith](#). The first report is due October 1, 2015.

SECTION 1 – LOCALITY INFORMATION

Locality Name: City of Chesapeake
Contact Name: Barbara Brumbaugh – Environmental Quality Coordinator
Contact Address: 306 Cedar Rd, Chesapeake, VA 23322
Contact Email: bbrumba@cityofchesapeake.net
Contact Phone: (757) 382-6919

SECTION 2 - STORMWATER UTILITY FEES

For your stormwater utility fees provide the following information from your most recent annual financial statement.

Fund Name: Stormwater Management *Fiscal year:* **2015 – most recent audited statement**

Revenue	Expenditures	Balance
\$15,644,842	\$11,605,679	\$67,323,205

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

There are currently 100 funded full time positions funded by the Stormwater Utility, with various vacancies at any given time. Inmate crews Sheriff's Deputies are also funded. For the fiscal year 2016 the following programs were funded:

Storm Sewer System Maintenance and Operations: Responsible for maintenance of the City's storm sewer system including ditches, pipes, catch basins, and stormwater management facilities in order to maintain drainage, improve water quality, and prevent flooding. For the FY16 the following maintenance activities were completed (including preventive and reactive): 166 structures were cleaned/serviced; 23.08 miles of blocked ditch were cleared; 51.3 miles of ditch was regraded; 24.47 miles of ditch was cleaned/cleared; 196.88 miles of lead ditch was maintained; and 15.84 miles of roadside ditch was maintained. These activities resulted in 182,950 gallons and 752 tons of sediment and debris removed. Additionally 232 cave-in repairs were made and 8 stormwater management facilities were maintained.

Contractual Services: \$1.5 million was allocated for contractor cave-in repairs with 107 locations repaired.

Street Sweeping Program: Streets with curb and gutter are swept. For FY16 6023.85 miles were swept with 3495 tons of debris collected. Additionally, inmate crews and community service workers conducted "hard surface mowing" removing built up sediment and vegetation from City gutter pans and roads. 52.17 miles of hard surface were cleaned.

Environmental Quality Program: This program has responsibility for the MS4 Permit compliance and conducting Erosion and Sediment Control and Stormwater Management Program inspections in compliance with the Virginia Stormwater Management Program. Staff conduct stormwater management facility inspections; investigate customer service requests and complaints; conduct dry weather screening; conduct drainage final inspections for acceptance of facilities to the City's MS4; inspect high priority City facilities for housekeeping measures; conduct inspections of land disturbing activities; conduct public education and outreach; and manage TMDL compliance efforts. Program highlights include: 302 commercial, 1618 single-family, and 185 multi-family ESC/Stormwater Inspections conducted; 155 reports/complaints of illicit discharges or illegal dumping investigated; 25 dry weather screening sites inspected; and 430 post-construction stormwater management facilities inspected. The City's MS4 VPDES Permit was reissued effective July 1, 2016. During FY16 several contractual tasks were funded or partially funded in anticipation of new permit requirements including: MS4 Service Area mapping; TMDL Action Planning; preparation of SWPPPs for high priority municipal facilities; a

regional water quality monitoring program; and a new homeowner engagement program for stormwater environmental conservation services.

Planning and Scheduling: This division is responsible for estimating, planning, and scheduling in-house stormwater work orders and projects, assessing drainage and outfall conditions, completing in-house design work for stormwater projects, oversight of the lead ditch ranking and preventive maintenance program, and oversight of "snag and drag" projects.

Engineering: Responsible for environmental engineering and watershed planning, selection and oversight of stormwater-related capital projects, and Design/Construction Services which has inspection and oversight responsibilities for City projects.

Major Equipment Purchases: During FY16 the following equipment was purchased: three Felling 12 ton deck-over trailers, one CAT excavator, one CAT skid steer, two 2016 Freightliner M2 w/Elgin Broom Bears, one pipe washer, two tandem dump trucks, one 2017 Freightliner M2106 flat bed with Scorpion and arrow board, one medium excavator and five Ford F150s.

Emergency Response: Stormwater staff are called upon to respond to flooding and other stormwater-related incidents before, during, and after storm events. This requires training, planning, equipment and supplies, and significant preparation.

While volume of sediment and debris removed from the system is being tracked, it has not been possible to accurately estimate and quantify nutrient reductions achieved through Maintenance, Operations, and Inspection activities.

B. Capital Improvement Program

Please see the attached Stormwater Capital Improvement Plan and associated budget. The budget is developed for a 5 year cycle.

CAPITAL IMPROVEMENT PLAN FOR FIVE YEARS ENDING JUNE 30, 2020

PROJECT LIST

Project Name	Project #	Page #
Public Utilities (cont.)		
Northwest River WTP - Replace Ground Storage Tank	29-200	I-17
Northwest River WTP - Riverbank Filtration System	36-200	I-18
Raw Water Transmission Main	39-120	I-19
Sewer and Water Renewal - Elbyrne Drive	23-170	I-20
Sewer Improvements (Gravity) Service Area - Phase I (Pump Station #3)	35-170	I-21
Sewer Management Operations & Maintenance	13-160	I-22
Sewer Pump Station Safety Improvements	35-200	I-23
Sewer Renewal - 18th Street	15-170	I-24
Sewer Renewal - Additional Consent Order Capital Requirement	05-180	I-25
Sewer Renewal - Chesapeake Ave - Guerriere to Ohio Sewer	18-170	I-26
Sewer Renewal - Liberty Street (500 Block to Collingswood)	26-170	I-27
Sewer Renewal - Phase I SSES Implementation	32-120	I-28
Sewer Renewal - Raleigh Place (Pump Station #7 Basin)	33-170	I-29
Sewer Renewal - Westwood and Redstart Avenue	42-170	I-30
Sewer Replacement - Orville Ave Alleyway - Bainbridge to Seaboard	31-170	I-31
Unserved Areas/Cost Participation Phase II	25-200	I-32
Water Control Laboratory - Upgrade HVAC	26-200	I-33
Water Production Security System Upgrades	31-200	I-34
Water Renewal - Buchanan Street	24-200	I-35
Water Renewals - Waterline Upgrading Phase II	14-160	I-36
Water Residuals Disposal	32-200	I-37
Water Treatment Plant Control System Upgrade	27-200	I-38
Western Branch Elevated Tank Rehabilitation	33-200	I-39
Stormwater Projects		
BMP Restoration Citywide	73-120	J-1
Citywide Outfall Re-grading and Restoration	03-160	J-2
Citywide System Rehab	43-170	J-3
Citywide Undesignated Drainage Phase III	07-150	J-4
Major Equipment Purchases - PW Stormwater Division	07-180	J-5
Neighborhood Drainage Improvements II	08-150	J-6
Oakdale Area BMP and Drainage Improvements	09-150	J-7
Shillelagh Road Drainage Outfall Improvement	77-120	J-8
Stormwater Mapping & Master Drainage Plan III	10-150	J-9
Stormwater Quality Program Phase II	11-150	J-10
Sunray Area Outfall Re-Grading	13-130	J-11
Welch Lane Drainage Improvements	19-200	J-12
Whittamore Rd. Outfall Improvements	20-200	J-13

Note: Detail on "Fully Funded" Projects begins on page L-1

**CAPITAL IMPROVEMENT PLAN FOR THE FIVE YEAR PERIOD ENDING JUNE 30, 2020
ALLOCATION OF RESOURCES**

Project Name	Project #	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	5 Year Total	Previous Funding	Future Requirements	Project Total
Cash - Other City Funds										
Fentress Encroachment Protection	10-190	-	-	-	-	-	-	666,133	-	666,133
Cash - Other City Funds Total		-	-	-	-	-	-	666,133	-	666,133
Cash - South Norfolk TIF										
22nd Street Bridge Replacement	21-120	-	6,450,000	-	-	-	6,450,000	6,049,300	-	12,499,300
Cash - South Norfolk TIF Total		-	6,450,000	-	-	-	6,450,000	6,049,300	-	12,499,300
Cash - Stormwater										
BMP Restoration Citywide	73-120	100,000	300,000	200,000	400,000	300,000	1,300,000	1,300,000	-	2,600,000
Citywide Outfall Re-Grading and Restoration ²	03-160	100,000	200,000	100,000	150,000	150,000	700,000	720,000	-	1,420,000
Citywide System Rehab	43-170	300,000	400,000	500,000	500,000	500,000	2,200,000	1,200,000	-	3,400,000
Citywide Undesignated Drainage - Phase III	07-150	-	50,000	50,000	100,000	100,000	300,000	506,347	-	806,347
Major Equipment Purchases - PW Stormwater Division	07-180	666,000	-	-	-	-	666,000	3,308,000	-	3,974,000
Neighborhood Drainage Improvements II	08-150	600,000	500,000	570,000	650,000	750,000	3,070,000	1,224,600	-	4,294,600
Oakdale Area BMP and Drainage Improvements	09-150	-	500,000	1,500,000	2,000,000	1,000,000	5,000,000	-	-	5,000,000
Shillelagh Rd. Drainage Outfall Improvement	77-120	2,000,000	1,100,000	-	-	-	3,100,000	-	-	3,100,000
Stormwater Mapping and Master Drainage Plan Phase III	10-150	100,000	200,000	100,000	200,000	200,000	800,000	200,000	-	1,000,000
Stormwater Quality Program - Phase II	11-150	-	2,000,000	2,000,000	1,500,000	2,500,000	8,000,000	340,565	-	8,340,565
Sunray Area Outfall Re-Grading	13-130	1,200,000	-	-	-	-	1,200,000	-	-	1,200,000
Welch Ln. Drainage Improvements	19-200	-	-	480,000	-	-	480,000	-	-	480,000
Whittamore Rd. Outfall Improvements	20-200	-	300,000	-	-	-	300,000	-	-	300,000
Cash - Stormwater Total		5,066,000	5,550,000	5,500,000	5,500,000	5,500,000	27,116,000	8,799,512	-	35,915,512