

### **City of Richmond**

# When it Rains – it Pours Why we need a Stormwater Utility

7<sup>th</sup> District Meeting March 27, 2010

Bob Steidel - Deputy Director, DPU
Chris Beschler - Director, DPU



## **Understanding Stormwater**

### What is Stormwater?

Precipitation from rain/melting snow that DOES NOT soak into the ground. Impervious surfaces like driveways, parking lots, roads and roofs prevent stormwater from soaking in.

### **Stormwater Issues:**

Flooding

Pollution

Poor Water Quality

Soil Erosion





## **Understanding Stormwater**

## Where does it go?

Stormwater travels to the James River through...

35,000 catch basins

370 stormwater outfalls

200 private BMP's (example: retention pond)

50 public BMP's

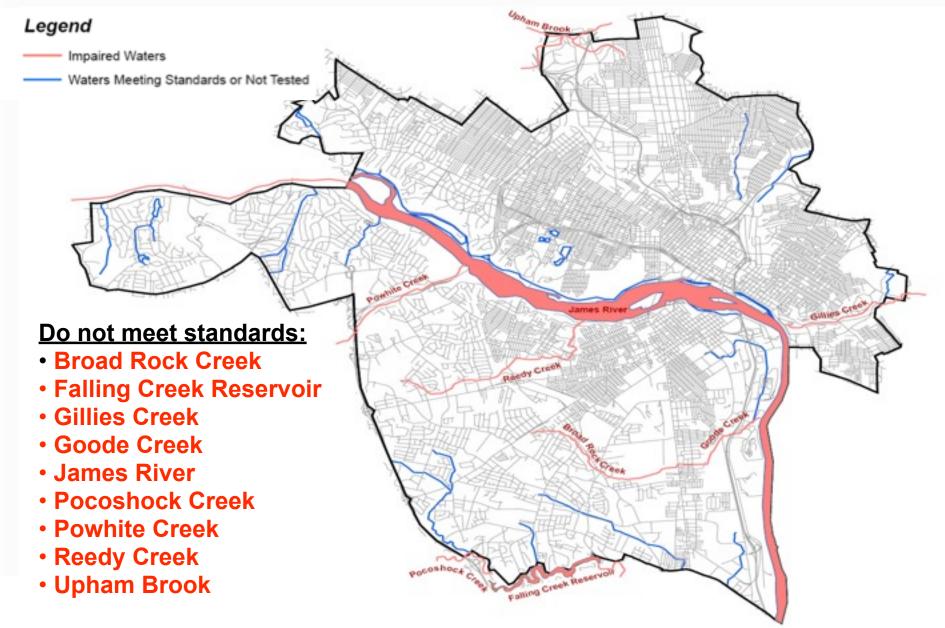
608 miles of drainage ditches

178 miles of storm sewers

6.5 miles of polluted creeks and streams



## **Understanding Stormwater Richmond's Polluted Waters**





## **Understanding Stormwater**

## What is the law?



We have to reduce/improve both

**Quantity of Stormwater** 

**Quality of Stormwater** 



# **Understanding Stormwater: Management Goals**

- Protect public and environmental health
- Protect residential, commercial, industrial & public properties
- Improve and protect public safety and mobility
- Improve economic opportunities with better drainage

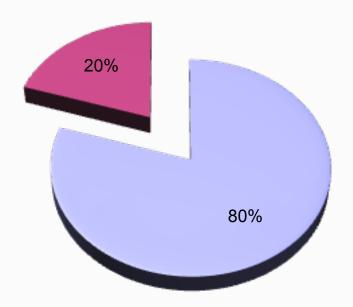






# **Understanding Stormwater: Pollution Sources**

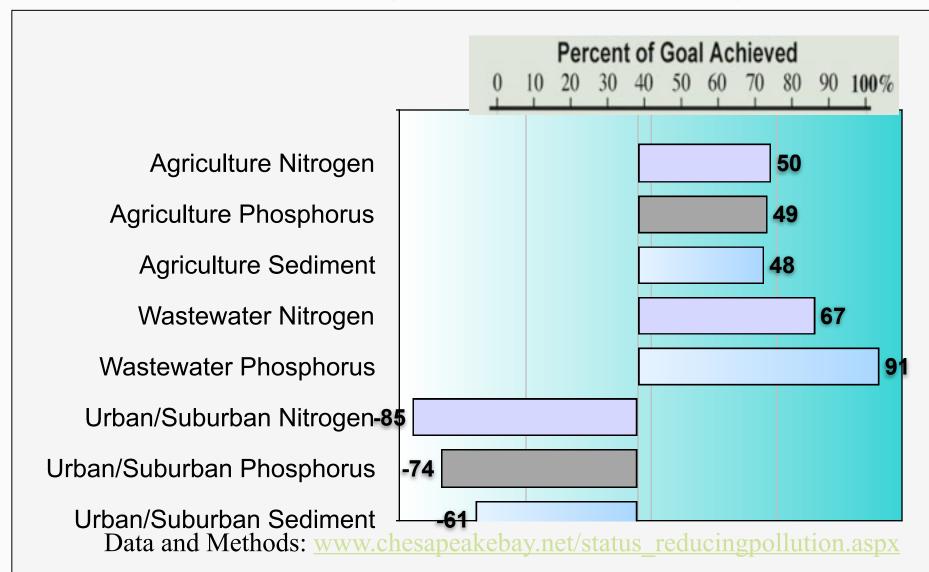
Contributors to Chesapeake Bay Pollution



- Agriculture & Stormwater Runoff
- Wastewater Treatment Plants and Industry



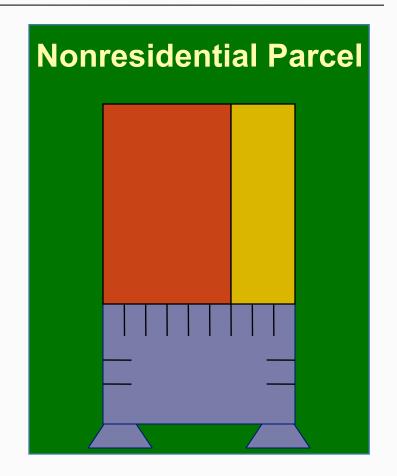
## **Understanding Stormwater - Pollution Reduction Progress in the Chesapeake Bay Watershed**





## **Understanding Stormwater Billing Unit Calculation**

Building Area	10,000Ft <sup>2</sup>
Parking	3,250 Ft <sup>2</sup>
Other Impervious Area	1,000 Ft <sup>2</sup>
Total	14,250 Ft <sup>2</sup>



14,250 = 10 ERUs



## **Understanding Stormwater Rates by Customer Category**

We have a three tiered rate structure for single family residential (SFR) parcels

based on the amount of impervious surface area:

Rates per SFR (Impervious sq. ft)

	<u> Annual Rates</u>	<u># Customers</u>
1,000 sq. ft. or less	\$25	7,906
1,001-2,399 sq. ft.	\$45	32,449
2,400 sq. ft. or more	\$70	7,609

Non-residential properties are charged **per # of Equivalent Residential Units** (ERU's). One ERU = 1,425 sq. ft.

Rates per ERU (1 ERU = 1,425 sq. ft)

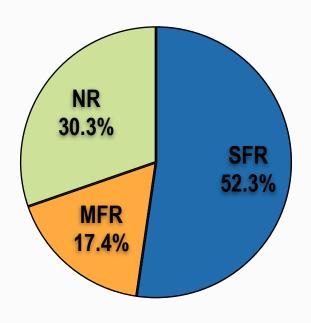
#### Annual Rates # Customers

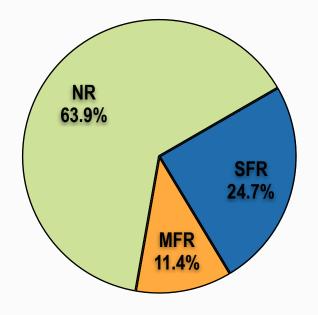
Multi-family Residential	\$45	11,220
Non-Residential	\$45	8,878

(includes commercial, industrial, non-profits, churches)



# **Understanding Stormwater Taxes vs. Fees**



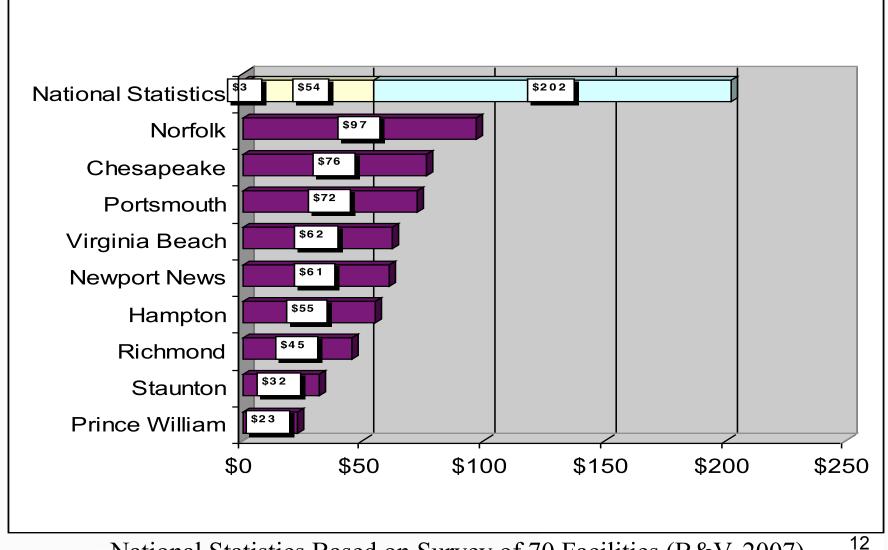


Real Estate Taxes

Stormwater Utility Fees



## **Understanding Stormwater** Fee Comparison to other localities





# **Understanding Stormwater Exemptions and Credits**

 Non-residential properties are eligible for partial credits that meet defined criteria

Property Category

Onsite Facilities to Control Quantity

Low Impact Development (LID) Participation in Pollution Prevention and/or Lawn Care Program

Maximum Allowable Credit

Non –Residential (includes commercial, industrial, non-profit, churches)

Up to 20%

Up to 20%

Up to 20%

50%







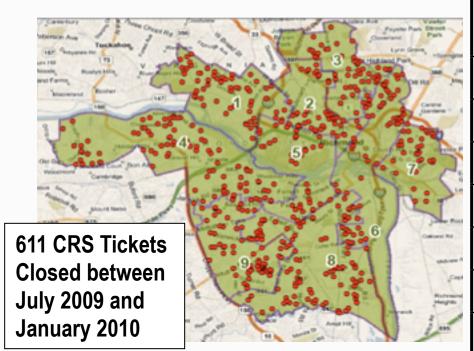


# **Understanding Stormwater Payment Options**

- How to pay
  - Mail in payment
  - Pay by credit card on City website
  - Pay in person at City Hall and East District Initiative
- Payment Assistance
  - Call 644-3000
  - Customized payment plan to fit your needs



## **Understanding Stormwater Completed Maintenance Requests**



Council District	# Closed Service Requests	Cost
1	70	\$240,830
2	55	\$192,195
3	55	\$182,595
4	95	\$329,355
5	41	\$130,269
6	67	\$220,703
7	37	\$122,633
8	119	\$405,571
9	72	\$247,048

Total: \$2,071,199



### **City of Richmond**

## **Discussion**