

## MSD PERFORMS THREE BASIC, DISTRICT-WIDE STORMWATER SERVICES:

### MANAGEMENT

- Enforce rules and regulations for stormwater improvements
- Investigate stormwater complaints
- Evaluate stormwater issues within MSD's boundaries
- Monitor water quality of area creeks and rivers

### COMPLIANCE

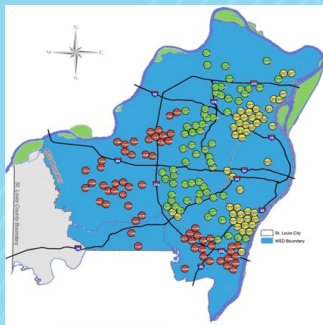
- Comply with Phase II Stormwater Permit. MSD is a co-permittee with 59 municipalities and St. Louis County.
- Inspect area creeks for illegal discharges
- Educate public on Phase II requirements
- Coordinate permit-related activities by municipalities and St. Louis County.

### SERVICE

- MSD owns and maintains stormwater infrastructure, including stormwater sewers, inlets, channels, manholes, etc.
- Now equalized across the service area with the 2016 passage of Prop S

## PROPOSITION S

Voters passed Proposition S in April 2016, addressing unequal stormwater operations and maintenance funding across our service area. Proposition S equalized services with regard to operations and maintenance in the public storm sewer system. Now, MSD is exploring options to fund capital projects.



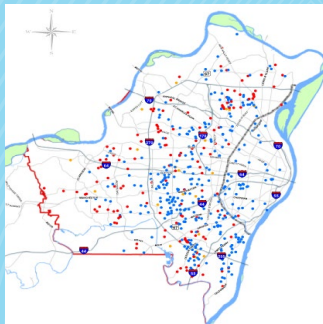
### DISTRICT FUNDING

regulatory tax	stormwater tax	total tax rate
\$0.0197	+ \$0.10	= \$0.1197

- Includes regulatory compliance
- Includes complete operations and maintenance

### FINITE STORMWATER CAPITAL PROGRAM

- Limited funding for necessary capital improvements: FY17-20: ~\$67M



### UNFUNDED STORMWATER ISSUES

identified but unfunded - 500 total cost - \$500M

Today, as rainfall becomes more intense, we can no longer try to engineer around Mother Nature. MSD is not a flood control agency and does not own creeks or streams. Though MSD cannot prevent localized flooding and erosion, it could provide projects that would lessen the possibility of future localized flooding and erosion. MSD is currently unable to address regional flooding, but could if MSD had funding for large-scale property buyouts.

● localized flooding ● erosion ● regional flooding

## MSD COULD BE IN A POSITION TO DO SOMETHING ABOUT THE IMPACTS OF STORMWATER, IF THE PUBLIC APPROVES THE FUNDING AND MANDATE.

*Which services, if any, are a priority for the community?  
How does the public want to pay for services?  
What mechanism? How much? How often? For how long?*

## EXAMPLE ANNUAL REVENUE SCENARIOS<sup>1</sup>

### \$10M ANNUAL REV

- Generates \$6M in construction dollars/yr
- Impervious fee: ~\$8/yr<sup>2</sup>
- Tax: ~\$9-12/yr<sup>3</sup> ~\$.04/\$100 assessed valuation

### \$20M ANNUAL REV

- Generates \$12M in construction dollars/yr
- Impervious fee: ~\$16/yr<sup>2</sup>
- Tax: ~\$18-25/yr<sup>3</sup> ~\$.08/\$100 assessed valuation

### \$30M ANNUAL REV

- Generates \$18M in construction dollars/yr
- Impervious fee: ~\$24/yr<sup>2</sup>
- Tax: ~\$28-38/yr<sup>3</sup> ~\$.12/\$100 assessed valuation

### \$40M ANNUAL REV

- Generates \$24M in construction dollars/yr
- Impervious fee: ~\$32/yr<sup>2</sup>
- Tax: ~\$38-50/yr<sup>3</sup> ~\$.15/\$100 assessed valuation

## Should MSD provide full regional stormwater services?

### LOCALIZED FLOODING

#### KEY ISSUES

Ex., backyard or localized flooding that may affect a few contiguous properties.



#### POTENTIAL SOLUTIONS

- Stormwater drainage systems
- Property buyouts
- Rainscaping

### EROSION

#### KEY ISSUES

Ex., Erosion of creek or stream banks along private property lines



#### POTENTIAL SOLUTIONS

- Natural creek bank stabilization
- Property buyouts

### REGIONAL FLOODING

#### KEY ISSUES

Ex., large-scale flooding of waterways, impacting streets, properties, and structures



#### POTENTIAL SOLUTIONS

- **Only** potential solution is large-scale property buyouts

<sup>1</sup>Scenarios are estimates for presentation purposes only. As of 11/2016 <sup>2</sup>Per 2,300SF of impervious area <sup>3</sup>Based on average valuations of \$130K-\$170K