

#### **CLIMATE IMPACTS**

### EPA Programs and Initiatives Addressing Climate Change in the Water Sector

- Creating Resilient Water Utilities (CRWU)
- Effective and Sustainable Water Utility Management
- Emergency Response for Drinking Water and Wastewater Utilities
- Green Infrastructure and Low Impact Development
- Sustainable Infrastructure
- WaterSense
- Climate Ready Estuaries (CRE)
- Healthy Watersheds
- Water Quality Models and Tools











#### **CLIMATE RESILIENCY THROUGH GREEN INFRASTRUCTURE**



## The Water Infrastructure Improvement Act (WIIA) of 2019:

- Promote and coordinate the integration of green infrastructure into permitting and enforcement, planning efforts, research, technical assistance, and funding guidance.
- Defined Green Infrastructure under the Clean Water Act.

#### RECENT EPA GREEN INFRASTRUCTURE RESOURCES



COMPENDIUM OF MS4
PERMITTING APPROACHES

PART 5: GREEN INFRASTRUCTURE

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William Division

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- Green Infrastructure Webcast Series continually updated
  - <a href="http://www.epa.gov/green-infrastructure/green-infrastructure-webcast-series">http://www.epa.gov/green-infrastructure/green-infrastructure-webcast-series</a>
- Greening Congregations, released May 2020
- Green Streets Handbook, released May 2021
- Community-Enabled Lifecycle Analysis of Stormwater Infrastructure Costs (CLASIC)
   Tool, Released April 2021
  - <a href="https://www.epa.gov/water-research/green-infrastructure-modeling-toolkit#clasic">https://www.epa.gov/water-research/green-infrastructure-modeling-toolkit#clasic</a>
- Compendium of MS4 Permitting Approaches: Part 5, Green Infrastructure





#### **CLIMATE RESILIENCY THROUGH PLANNING**





CONTACT US SHARE (f)

#### Creating Resilient Water Utilities (CRWU)



#### Plan for Extreme Weather



- Explore and share adaptation case studies

#### Assess Your Risk and **Find Resources**



- See coastal storm surge scenarios
- View resources





Adapt and plan

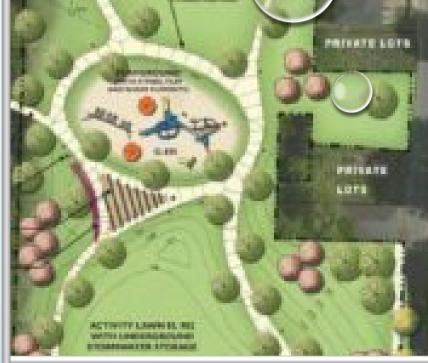








# ENVIRONMENTAL JUSTICE AND STORMWATER





#### INTEGRATED STORMWATER AND WASTEWATER PLANNING

- Integrated planning is a voluntary opportunity for municipalities to meet CWA obligations by sequencing stormwater and wastewater projects.
- Integrated planning may also consider other environmental and community objectives, including:
  - Water conservation and reuse
  - Biosolids waste management
  - Resiliency and flooding
  - Environmental justice
  - Safe drinking water
  - Green infrastructure, including land conservation
  - Other public health priorities such as air quality



#### **LONG-TERM STORMWATER PLANNING FOR MS4S**



 Communities can develop a comprehensive long-term stormwater plan that integrates stormwater management with communities' broader plans for economic development, infrastructure investment and environmental compliance.

#### Some benefits:

- Saves money by aligning stormwater upgrades with other infrastructure and development projects.
- Reduce flooding and pollution with reliable infrastructure in order to attract and sustain businesses to the community.
- Build an attractive community for residents to eat, live, work, play, fish and canoe in their own backyard.
- Provide certainty and predictability to developers and opens up new opportunities for financing.

#### Sewer Overflow and Stormwater Reuse Municipal Grants Program (OSG)

- Background:
- America's Water Infrastructure Act (AWIA) of 2018
   reauthorized and expanded section 221 of the Clean Water
   Act which initiated the start of the OSG program.
- OSG received an appropriation of \$28M in FY2020 and \$40M in FY2021.
- EPA will provide grants to states, DC, and the U.S. territories to make sub-awards for planning, design and construction of:
  - treatment works to intercept, transport, control, treat, or reuse municipal combined sewer overflows (CSOs), sanitary sewer overflows (SSOs), or stormwater; and
  - any other measures to manage, reduce, treat, or recapture stormwater or subsurface drainage water.

#### OSG grants can support:

- Ongoing overflow or stormwater work
- Cover planning and design costs to help get a project started
- Can support disadvantaged communities and Environmental Justice initiatives
- May be paired with a Clean Water State Revolving Fund project to reduce the project costs for the community

• https://www.epa.gov/cwsrf/sewer-overflow-and-stormwater-reuse-municipal-grants-program



# WATER FINANCE CLEARINGHOUSE

#### Meeting the Needs of Stakeholders

The Water Finance Clearinghouse is an easily navigable web-based portal that helps communities locate information and resources for all things water finance.

Stormwater
Infrastructure
Finance
Workgroup
Activities

Report featuring recommendations on stormwater funding and financing

Detailed descriptions of stormwater funding and financing mechanisms that are being used with examples

Case studies on how stormwater is being funded across the country

Database on stormwater funding options by state

#### OTHER STORMWATER ACTIVITIES

- EPA's 2021 Multi-Sector General Permit
- Updated industrial stormwater templates and guides

https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-fact-sheets-and-guidan

- SWPPP Template
- SWPPP Guide
- Monitoring and Sampling Guide
- Documentation Templates
- Coming Soon: Spreadsheet to help identify if exceedance of benchmark occurs
- EPA's Construction General Permit
- Census Rulemaking







EPA 832-B-09-0



Industrial Stormwater Monitoring and Sampling Guide

April 2021









EPA 833-8-09-00



Developing Your Stormwater Pollution Prevention Plan A Guide for Industrial Operators

March 2021



#### THANK YOU

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