



Clean Water
State Revolving Fund



2021 CIFA SRF Workshop National Outlook on Water Infrastructure

Andrew Sawyers, Ph.D., Director
Office of Wastewater Management
October 5, 2021

National Outlook: 2021



- 33 years of Federal-State Partnership
- 2021 Accomplishments
- Investing in Communities
- Environmental Justice
- Fostering Climate Resiliency
- Building on the Strong Legacy of Partnership

33 Years of Federal-State Partnership

14,687 loans
for wastewater
treatment
plants

- \$44.3B in federal capitalization (less administrative and transfers with DWSRF)
- \$8.9B in state match contributions
- \$47.2B in additional project funding from leveraged bonds (less refunding and debt service reserve)
- \$49.5B loan repayments and earnings (less leveraged and match bond repayments)
- More than \$145B invested in protecting and improving the nation's water quality through more than 42,800 assistance agreements with communities across the country
- This includes \$5.2B funding more than 19,200 projects since 1988 to address various sources of nonpoint source pollution
- With its mission of reducing the cost of critical public health and environmental protection, delivering more than \$44B in cumulative interest cost savings
- Continuing legacy of state innovation and federal flexibility

\$1.6 billion
for water
reuse
projects

6,221 loans
for
decentralized
treatment
systems

FY2021 CWSRF Accomplishments

- Data for 2021 is not final, but looking to be a record non-ARRA year in funding
- Building on \$7.5B in 2020 and 3-year average annual CWSRF funding over \$6.8B
- The national average CWSRF interest rate for 2020 was 1.2% (compared to a market interest rate of 2.7%)
- \$1.1B provided to assist disadvantaged communities in 2020
- Over \$350M additional subsidy in 2020 with \$280M average annual additional subsidy over past 3 years for addressing affordability and promoting green projects

Multiple Benefits to Communities

- Jobs and workforce development including construction, utility operations, apprenticeship programs
 - In 2017, the U.S. Water Alliance cited that 15,500 jobs were created per billion \$ invested in water infrastructure
- Economic development and jobs through reliable wastewater infrastructure
- Neighborhood quality of life and public health improvements through reduced sewer overflows and mitigation of flooding
- Heat island reduction and water infiltration improvements with green infrastructure
- Nature-based solutions providing green space, recreation and eco-tourism

Water Infrastructure Improvement as a Catalyst for Economic Development

Humboldt, TN

Wastewater Treatment Plant Improvements



\$15.7M CWSRF loan

\$300,000 loan forgiveness

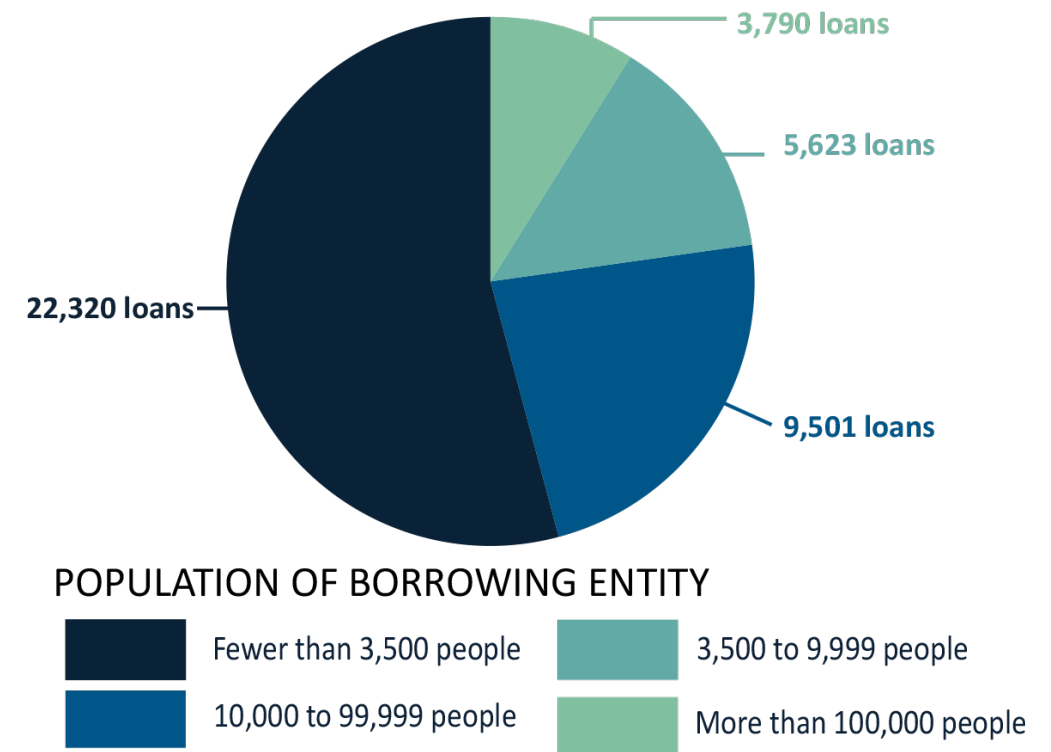
1600+ jobs created

- Small, rural town with population of 9300
- Replaced 2.6MGD WWTP with 5MGD system
- Allowed Tyson Foods to construct a new 1,600 employee facility in Humboldt and still improve water quality to the local receiving stream

Investing in All Communities: Making Water Infrastructure Affordable

- CWSRF can effectively serve communities of all sizes and socioeconomic statuses
- \$5.5B has been provided as additional subsidy, representing ~28% of capitalization grants since 2009
- \$12.9B to hardship/disadvantaged communities as defined by the state

Population Served by CWSRF Project



Infrastructure Investment for the Community

Baltimore, MD

Back River Wastewater Treatment Plant Headworks Project



\$184M CWSRF loan to Baltimore City

\$184M CWSRF loan to Baltimore County

\$74M WIFIA and local funds

- Increase capacity at the initial stage of the wastewater treatment process
- Project will eliminate 80% of Baltimore City's sanitary sewer overflows and significantly reduce the incidence of basement backups for residents

CWSRF Supporting Resilient Communities

NACWA estimates the climate adaptation costs for wastewater and drinking water utilities to be between \$448 and \$944 billion through 2050*

- [SRF Collaboration with FEMA through Memo of Understanding](#)
 - Establishes a framework for EPA-funded SRF programs to assist and collaborate with FEMA disaster assistance grant programs – looking towards mitigation
- SRF Resiliency Workgroup- SRF state, region and headquarters staff
 - Monthly discussions
 - Upcoming factsheet on SRF funding for wildfire mitigation and resiliency
 - Compiling resources with EPA Water Protection Division

[* Confronting Climate Change: An Early Analysis of Water and Wastewater Adaptation Costs](#)

Environmental Justice Communities Building Resiliency

- Central Falls, Rhode Island is considered the smallest, most densely populated, and economically disadvantaged area in the state
- Narragansett Bay Commission's GSI Initiative includes two construction projects in the City to infiltrate over 778,000 gallons of stormwater that would have otherwise been discharged as CSOs
- Significantly expanded the City's green infrastructure and added a new soccer field for residents to enjoy

Central Falls, RI

Narragansett Bay Commission CSO Phase 3a
Green Stormwater Infrastructure Initiative



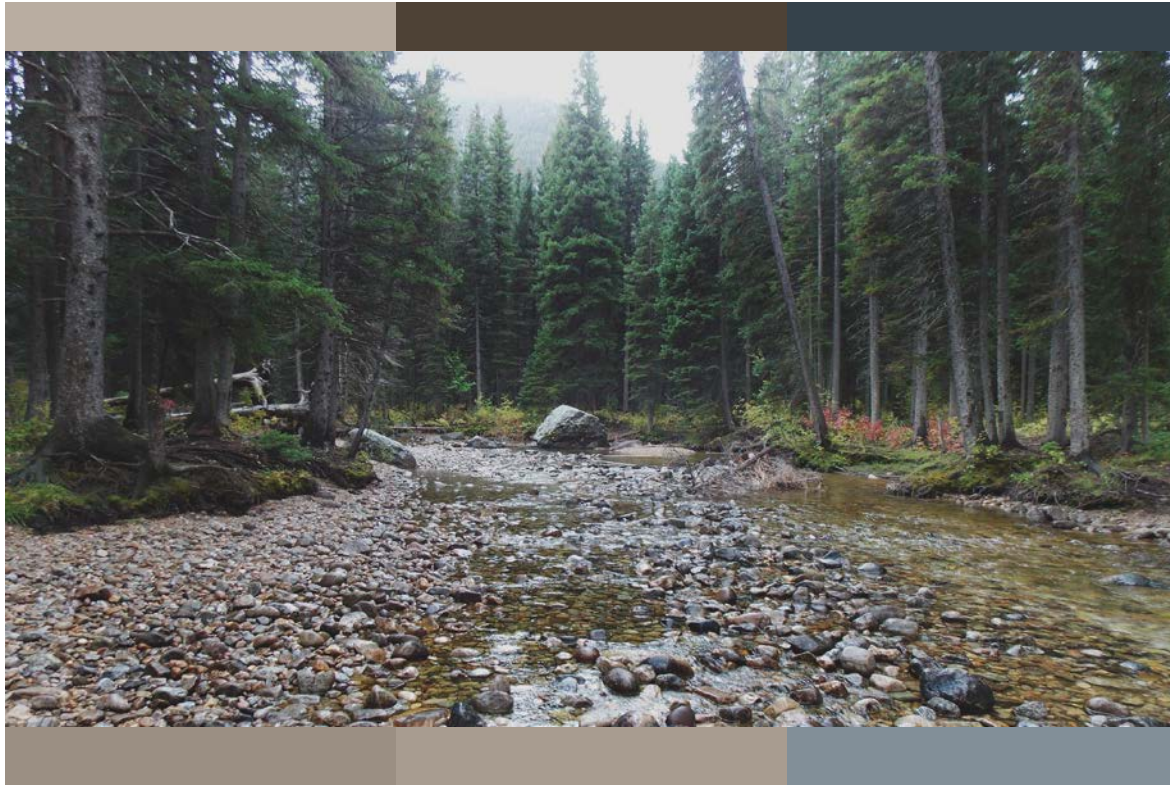
\$35M programmatic financing
agreement
Over **\$1M** in additional subsidy



Financing for Climate Resiliency

Driggs, ID

Floodplain Restoration



\$10.5M CWSRF loan
0% interest rate
\$1.9M loan forgiveness

- Driggs, Idaho performed a point source upgrade to the Teton Valley WWTP, combined with a NPS project to stabilize previously damaged streambeds
- Restoration of fish and wildlife habitat, with vegetation of over 10 acres of floodplain

Building on This Success – It's Water's Moment

- Current administration's focus on water infrastructure
 - The American Rescue Plan Act's Coronavirus State and Local Fiscal Recovery Funds
 - Potential for Infrastructure Investment and Jobs Act
- Partner with other agencies and stakeholders to leverage financing and innovation in the water sector
- Joint federal-state responsibility to reach all communities with all available financial resources to fund the broad spectrum of eligible CWSRF projects





Justice40 Initiative

- Critical part of the Administration's whole-of-government approach to advancing environmental justice
- Goal: 40 percent of the overall benefits of federal investments flow to disadvantaged communities
- EPA is implementing an engagement plan to work with federal, state, and local partners and non-profit and private sectors
- CIFA and its members are important partners and critical to the success of Justice40

Looking Ahead: Continuing Our Federal-State Partnership

- State innovation plays a vital role in the CWSRF program
- EPA supports this innovation through:
 - Collaboration and Workgroups
 - Marketing & Outreach
 - Wildfire Resiliency
 - Maximizing Infrastructure Investment
 - Disadvantaged Communities
 - Supporting your staff and future workforce
 - Technical Assistance Opportunities
 - Marketing Surveys and Focus Groups
 - Pilot projects





Clean Water
State Revolving Fund

www.epa.gov/cwsrf
cwsrf@epa.gov