WORKING WITH NATURE TRAINING SERIES

MAY 18, 2022

Federal programs and nature-based solutions

LOUISIANA **WATERSHED** INITIATIVE

working together for sustainability and resilience

AGENDA

Program overview

- FEMA & EPA: Federal opportunities to support nature-based solutions
- Lessons learned: Implementing green infrastructure with federal funding
- Questions



NATURE-BASED SOLUTIONS PROGRAM OVERVIEW

MAXIMIZE NATURAL FUNCTIONS OF THE FLOODPLAIN

- Fund projects that harness natural features to reduce flood risk, improve water quality and provide additional co-benefits
- Provide training and technical resources to advance understanding and adoption of nature-based solutions
- Prioritize nature-based solutions throughout state programs and projects
- Use tools to quantify benefits and measure performance of nature-based projects



LOUISIANA WATERSHED INITIATIVE

Resources

FEDERAL PROGRAM SUPPORT

The White House Coastal Resilience Interagency Working Group released a summary of federal nature-based resources in April. The document is available at watershed.la.gov/nature-based-solutions. COMPENDIUM OF FEDERAL NATURE-BASED RESOURCES FOR COASTAL COMMUNITIES, STATES, TRIBES, AND TERRITORIES

APRIL 2022

EPA: FEDERAL OPPORTUNITIES TO SUPPORT NATURE-BASED SOLUTIONS

ROBYN DEYOUNG, Green Infrastructure
Program Lead, EPA Office of Water
MIRANDA PENN, Physical Scientist, EPA
SUZANNA PEREA, Stormwater/Green
Infrastructure Coordinator, EPA Region 6

LOUISIANA WATERSHED INITIATIVE

WORKING TOGETHER FOR SUSTAINABILITY AND RESILIENCE



EPA's priorities to advance green infrastructure



GUEST SPEAKER

Strengthen Partnerships	Strengthen and establish critical partnerships to promote resilient, equitable and vibrant communities
Enhance Public Awareness	Enhance public awareness of green infrastructure's multiple benefits in protecting public health and the environment
Engage Underserved Communities	Actively engage with historically underserved communities to understand their priorities and target EPA resources and expertise to enhance equity
Provide Technical Assistance	Provide targeted technical assistance and funding to improve communities' resilience to climate change impacts
Build Capacity	Build capacity for an inclusive green infrastructure and stormwater workforce to create local jobs in underserved communities



LOUISIANA WATERSHED INITIATIVE WORKING TOGETHER FOR SUSTAINABILITY AND RESILIENCE

Green infrastructure funding and federal collaborative



Navigating Federal Funding for Green Infrastructure and Nature-Based Solutions

- On Nov. 2, 2021, seven agencies described 28 funding and technical assistance programs for green infrastructure.
- EPA programs include:
 - Clean Water State Revolving Fund
 - 319 Non-Point Source Grants
 - Overflow and Stormwater Grants
 - Water Infrastructure Finance and Innovation Act
 - Environmental Justice Grants

Other funding opportunities found on EPA's green infrastructure funding webpage.

State agencies administer funds for these programs.

Implementation Memo for CW SRF and DWSRF Released March 2022 March 16 webinar



PLANNING &OPERATIONS &AGENCYPROGRAMDESIGNCONSTRUCTIONMAINTENANCEEPAOverflow and Stormwater Grants (OSG)YESYESYESNOEPAClean Water State Revolving Fund (CWSRF)YESYESYESNOEPAWater Infrastructure Finance and Innovation Act (WIFIA)YESYESYESNOEPASection 319 Non-Point Source GrantsYESYESYESYESEPAEnvironmental Justice Small GrantsYESYESNONOEPAGreat Lakes Restoration Initiative (GLRI)YESYESNONOEPAGreen Streets, Green Jobs, Green Towns (G3)YESYESNONOUSDA NRCSWatershed and Flood Prevention Operations ProgramYESYESNONOUSDA NRCSRegional Conservation Partnership ProgramYESYESYESNOHUDCDBG Section 108YESYESYESNOHUDCDBG Section 108YESYESNOFEMABuilding Resilient Infrastructure & Communities (BRIC)YESYESNONOAAAcquisition and Construction GrantsYESYESYESNONOAACoastal and Marine Habitat Restoration GrantsYESYESYESYES	
EPAOverflow and Stormwater Grants (OSG)YESYESYESNOEPAClean Water State Revolving Fund (CWSRF)YESYESNOEPAWater Infrastructure Finance and Innovation Act (WIFIA)YESYESNOEPASection 319 Non-Point Source GrantsYESYESYESEPAEnvironmental Justice Small GrantsYESNONOEPAGreat Lakes Restoration Initiative (GLRI)YESYESNOUSDA NRCSWatershed and Flood Prevention Operations ProgramYESYESNOUSDA NRCSWatershed Rehabilitation ProgramYESYESNOUSDA NRCSRegional Conservation Partnership ProgramYESYESYESHUDCommunity Development Block Grant (CDBG)YESYESNOHUDCDBG Section 108YESYESNOFEMABuilding Resilient Infrastructure & Communities (BRIC)YESYESYESNOAAAcquisition and Construction GrantsYESYESNO	
EPAClean Water State Revolving Fund (CWSRF)YESYESNOEPAWater Infrastructure Finance and Innovation Act (WIFIA)YESYESNOEPASection 319 Non-Point Source GrantsYESYESYESYESEPAEnvironmental Justice Small GrantsYESNONOEPAGreen Lakes Restoration Initiative (GLRI)YESYESNOEPAGreen Streets, Green Jobs, Green Towns (G3)YESYESNOUSDA NRCSWatershed and Flood Prevention Operations ProgramYESYESNOUSDA NRCSWatershed Rehabilitation ProgramYESYESNOUSDA NRCSRegional Conservation Partnership ProgramYESYESYESNOHUDCommunity Development Block Grant (CDBG)YESYESYESNOHUDCDBG Section 108YESYESYESNOFEMABuilding Resilient Infrastructure & Communities (BRIC)YESYESYESNONOAAAcquisition and Construction GrantsYESYESYESNO	MONITORING
EPAWater Infrastructure Finance and Innovation Act (WIFIA)YESYESNOEPASection 319 Non-Point Source GrantsYESYESYESYESEPAEnvironmental Justice Small GrantsYESNONOEPAGreat Lakes Restoration Initiative (GLRI)YESYESNOEPAGreen Streets, Green Jobs, Green Towns (G3)YESYESNOUSDA NRCSWatershed and Flood Prevention Operations ProgramYESYESNOUSDA NRCSWatershed Rehabilitation ProgramYESYESNOUSDA NRCSRegional Conservation Partnership ProgramYESYESYESNOHUDCommunity Development Block Grant (CDBG)YESYESYESNOHUDCDBG Section 108YESYESNOFEMABuilding Resilient Infrastructure & Communities (BRIC)YESYESYESNONOAAAcquisition and Construction GrantsYESYESYESNO	NO
EPASection 319 Non-Point Source GrantsYESYESYESEPAEnvironmental Justice Small GrantsYESNONOEPAGreat Lakes Restoration Initiative (GLRI)YESYESNOEPAGreen Streets, Green Jobs, Green Towns (G3)YESYESNOUSDA NRCSWatershed and Flood Prevention Operations ProgramYESYESNOUSDA NRCSWatershed Rehabilitation ProgramYESYESNOUSDA NRCSRegional Conservation Partnership ProgramYESYESNOHUDCommunity Development Block Grant (CDBG)YESYESYESNOHUDCDBG Section 108YESYESNOFEMABuilding Resilient Infrastructure & Communities (BRIC)YESYESYESNONOAAAcquisition and Construction GrantsYESYESYESNO	NO
EPAEnvironmental Justice Small GrantsYESNOEPAGreat Lakes Restoration Initiative (GLRI)YESYESNOEPAGreen Streets, Green Jobs, Green Towns (G3)YESYESNOUSDA NRCSWatershed and Flood Prevention Operations ProgramYESYESNOUSDA NRCSWatershed Rehabilitation ProgramYESYESNOUSDA NRCSRegional Conservation Partnership ProgramYESYESNOUSDA NRCSRegional Conservation Partnership ProgramYESYESYESHUDCommunity Development Block Grant (CDBG)YESYESNOHUDCDBG Section 108YESYESNOFEMABuilding Resilient Infrastructure & Communities (BRIC)YESYESNONOAAAcquisition and Construction GrantsYESYESNO	NO
EPAGreat Lakes Restoration Initiative (GLR))YESYESNOEPAGreen Streets, Green Jobs, Green Towns (G3)YESYESNOUSDA NRCSWatershed and Flood Prevention Operations ProgramYESYESNOUSDA NRCSWatershed Rehabilitation ProgramYESYESNOUSDA NRCSRegional Conservation Partnership ProgramYESYESNOUSDA NRCSRegional Conservation Partnership ProgramYESYESNOUSDA NRCSRegional Conservation Partnership ProgramYESYESNOHUDCommunity Development Block Grant (CDBG)YESYESNOHUDCDBG Section 108YESYESNOFEMABuilding Resilient Infrastructure & Communities (BRIC)YESYESNONOAAAcquisition and Construction GrantsYESYESNO	YES
EPAGreen Streets, Green Jobs, Green Towns (G3)YESYESNOUSDA NRCSWatershed and Flood Prevention Operations ProgramYESYESNOUSDA NRCSWatershed Rehabilitation ProgramYESYESNOUSDA NRCSRegional Conservation Partnership ProgramYESYESYESHUDCommunity Development Block Grant (CDBG)YESYESNOHUDCDBG Section 108YESYESNOFEMABuilding Resilient Infrastructure & Communities (BRIC)YESYESNONOAAYESYESNOYESNO	YES
USDA NRCSWatershed and Flood Prevention Operations ProgramYESYESNOUSDA NRCSWatershed Rehabilitation ProgramYESYESNOUSDA NRCSRegional Conservation Partnership ProgramYESYESYESHUDCommunity Development Block Grant (CDBG)YESYESNOHUDCDBG Section 108YESYESNOFEMABuilding Resilient Infrastructure & Communities (BRIC)YESYESNONOAAAcquisition and Construction GrantsYESYESNO	NO
USDA NRCSWatershed Rehabilitation ProgramYESYESNOUSDA NRCSRegional Conservation Partnership ProgramYESYESYESHUDCommunity Development Block Grant (CDBG)YESYESNOHUDCDBG Section 108YESYESNOFEMABuilding Resilient Infrastructure & Communities (BRIC)YESYESNONOAAAcquisition and Construction GrantsYESYESNO	NO
USDA NRCSRegional Conservation Partnership ProgramYESYESYESHUDCommunity Development Block Grant (CDBG)YESYESNOHUDCDBG Section 108YESYESNOFEMABuilding Resilient Infrastructure & Communities (BRIC)YESYESNONOAAAcquisition and Construction GrantsYESYESNO	NO
HUDCommunity Development Block Grant (CDBG)YESYESNOHUDCDBG Section 108YESYESNOFEMABuilding Resilient Infrastructure & Communities (BRIC)YESYESNONational Estuarine Research Reserve System Procurement and Acquisition and Construction GrantsYESYESNO	NO
HUD CDBG Section 108 YES NO FEMA Building Resilient Infrastructure & Communities (BRIC) YES YES NO NOAA Acquisition and Construction Grants YES YES NO	YES
FEMA Building Resilient Infrastructure & Communities (BRIC) YES YES NO NOAA National Estuarine Research Reserve System Procurement and Acquisition and Construction Grants YES YES NO	NO
NOAA National Estuarine Research Reserve System Procurement and Acquisition and Construction Grants YES YES NO	NO
NOAA Acquisition and Construction Grants YES YES NO	NO
NOAA Coastal and Marine Habitat Restoration Grants YES YES YES YES	NO
	YES
NOAA OAA Great Lakes Habitat Restoration Regional Partnership Grants YES YES NO	YES
NOAA Coastal and Estuarine Land Conservation Program (CELCP) NO NO YES	NO
NOAA National Coastal Resilience Fund YES YES NO	NO
USACE Floodplain Management Services Program - Technical Assistance YES NO NO	NO
USACE Planning Assistance to States (PAS) YES NO NO	NO
Continuing Authorities Program (CAP) Sec 205 - Small Flood Risk	
USACE Management Projects YES YES NO	YES
USACE CAP Sec 204 - Beneficial Use of Dredged Material YES YES NO	YES
USACE CAP Sec 1135 - Modification of Projects for the Environment YES YES NO	YES
USACE Tribal Partnership Program (TPP) YES YES NO	YES
USACE Individually Authorized Feasibility Studies and Projects YES YES YES YES	YES
USACE <u>Watershed Studies (Sec 729)</u> YES NO NO	NO
EDA Public Works & Economic Adjustment Assistance Funds YES YES NO	NO
EDA American Rescue Plan Program: Economic Adjustment Assistance Funds YES YES NO	NO



Navigating Federal Funding for Green Infrastructure and Nature-Based Solutions Master Summary

Note: This list represents the summary given during a webinar on November 2, 2021. There are other federal programs that fund green infrastructure not included on this list.



Enhance awareness of stormwater and green infrastructure needs



Clean Watershed Needs Survey is a comprehensive assessment of capital investments necessary to meet the nation's wastewater and stormwater treatment and collection needs, **including green infrastructure.**

CALL TO ACTION

March 1, 2022: CWNS data collection begins

May 31, 2022: State specific approach and state survey submission due

September 2022 – February 2023: Various reporting deadlines

Clean watershed needs state contacts:

Scott Templet, scott.templet@la.gov 225.219.3463 Coty Rabalais, coty.rabalais@la.gov 225.219.3910

LOUISIANA WATERSHED INITIATIVE



Reporting stormwater/green infrastructure for Clean Watershed Needs Survey

- Request project and/or cost documentation from local communities and provide to the state CWNS coordinator
- **Provide regional or statewide documents** to the state CWNS coordinator that may include needed projects or cost data
- Work with state CWNS coordinator to develop state-specific approach to estimate costs that are not documented
- Work with state CWNS coordinator to amend an existing statespecific approach already approved by EPA







Program requirements



STATE AGENCY ADMINISTERING PROGRAMS

Clean Water State Revolving Fund

- Minimum **10%** of federal grant **MUST** go to Green Project Reserve projects.
- 20% state match is required.
- Low interest loan: 0.45%/30-year repayment rate in most cases
- Some projects may qualify for additional subsidy.

deq.louisiana.gov/page/clean-water-state-revolving-fund

Sewer Overflow and Stormwater Reuse Municipal Grant Program

- State must provide a 20% cost-share.
- State must use **20%** of the allocation for **green infrastructure**, water and energy efficiency improvements and other environmentally innovative activities, when possible.

epa.gov/cwsrf/sewer-overflow-and-stormwater-reuse-municipal-grants-program



Green Project Reserve categories



Environmental Innovation

 Projects include those that demonstrate new and/or innovative approaches to delivering services or managing water resources in a more sustainable way.

Green Infrastructure

- Water efficiency projects are frequently categorized as green infrastructure in R6.
- Nonpoint source projects have been categorized as green infrastructure in the past.

Permeable pavement parking lot (Winn Parish, 2014)

Almost half of Louisiana's
 GPR projects have been

Most common category

Water Efficiency

for Louisiana

GPR projects have been water meter upgrades and installations (St. John the Baptist Parish, 2019).

Energy Efficiency

- Solar panel installation at WWTP (West Monroe, 2016)
- Broilers and biogas to conserve natural gas (EBRSCO, 2013)
- Infiltration/Inflow detection equipment (Abita Springs, 2017)

Clean Water Act: OSG

Program will provide funding for critical stormwater infrastructure projects in communities including combined sewer overflows and sanitary sewer overflows.

Clean Water Act: CWSRF

Construction of publicly owned treatment works

Assistance to any municipality or intermunicipal, interstate or state agency for construction of publicly owned treatment works as defined in CWA section 212

Nonpoint source

Assistance to any public, private or nonprofit entity for the implementation a state nonpoint source pollution management program, established under CWA section 319

National estuary program projects

Assistance to any public, private or nonprofit entity for the development and implementation of a conservation and management plan under CWA section 320

LOUISIANA WATERSHED INITIATIVE



Green infrastructure projects



ELIGIBLE PROJECTS TO INTERCEPT, TRANSPORT, CONTROL, TREAT OR REUSE STORMWATER AND SUBSURFACE DRAINAGE, INCLUDING:

- Planning and design activity related to an eligible capital project
- Plant or soil systems
- Permeable pavement or surfaces
- Stormwater harvest and reuse
- Landscaping to store, infiltrate or evapotranspire stormwater and reduce flows to sewer systems or to surface waters
- Green roofs, blue roofs, green streets and green walls
- Rainwater harvesting collection, storage, management and distribution systems
- Real-time control systems for harvested rainwater
- Bioretention/bioswales (e.g., rain gardens, tree boxes)
- Wetland/riparian/shoreline creation, protection, restoration
- Constructed wetlands, including surface flow and subsurface flow (e.g., gravel) wetlands
- Establishment/restoration of urban tree canopy
- Infiltration basins
- Replacement of gray infrastructure with green infrastructure including purchase and demolition costs



CWSRF and OSG contacts



The Louisiana Department of Environmental Quality

Sierra Trabeau, Program Manager LDEQ/CWSRF Phone: 225.219.3871 | Email: <u>sierra.trabeau@la.gov</u> Scott Templet, P.E., Engineer Manager LDEQ/CWSRF Phone: 225.219.3463 | Email: scott.templet@la.gov

EPA

Miranda Penn, Region 6 OSG and LA CWSRF Project Officer Phone: 214.665.7417 | Email: <u>penn.miranda@epa.gov</u>



Urban Waters Grants

Annual request for proposals through the Five Star UW Grants

- National Fish and Wildlife Foundation runs the Five Star UW Grants RFP.
- About \$2.6 million is available nationwide for projects meeting program priorities (typical award: \$40,000).
- RFP lists some specific partner priority geographies.
- Financial contributors for RFP include EPA, U.S. Forest Service, U.S. Fish and Wildlife Service, Southern Company, FEDEX and BNSF Railway.

PRIORITIES:

- On-the-ground restoration such as restore and/or create wetlands and address key species and habitats
 - Design and/or implement green infrastructure
- Environmental outreach, education and training
- Partnerships and measurable results

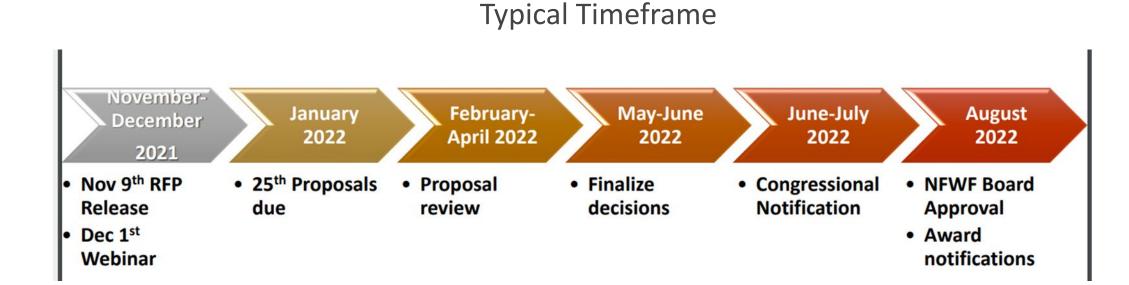






Urban Waters Grants





Five Star and Urban Waters Restoration Grant Program



LOUISIANA WATERSHED INITIATIVE

Building Blocks Program – Office of Community Revitalization

- Free, direct technical assistance from EPA-hired consultant teams
- Competitive, national solicitations (typically one in the fall and spring)
- Technical assistance designed to move a community through assessment, convening and action planning

Consists of:

- Public engagement through a two-day workshop (focus on issues and priorities determined by applicant)
- Direct consultations with relevant stakeholders, decision-makers and possible partners
- Memo outlining specific next steps generated during the workshop that the community can use to achieve its goals

OCR technical assistance opportunities are announced on its <u>home page</u>, or email <u>epa_cmty_revital-</u> <u>subscribe@lists.epa.gov</u> to receive announcements.

SHPA



Green infrastructure and nature-based Building Blocks workshops in Louisiana



2017 Linking Land Use and Water Quality Workshop – Denham Springs

- Workshop addressed green infrastructure (what it is/is not), land use and water quality, as well as rural, small town quality development and policy
- Action items incorporated in the Denham Springs Long-Term Recovery Plan
- USACE Silver Jackets project to expand BB workshop by evaluating and developing green infrastructure alternatives for future implementation

2022 Building Blocks Projects

- Lafayette: three to five projects—retention ponds and constructed wetlands
- Vermilion Economic Development Alliance: water and wastewater infrastructure assessment
- Kisatchie-Delta Regional Planning & Development District: regional watershed planning framework incorporating flood resilience



EPA contacts for green infrastructure and nature-based solutions



Headquarters

Office of Water <u>Robyn DeYoung</u> (deyoung.robyn@epa.gov) or 202.343.9080 Integrated Planning and Green Infrastructure Program Lead, Municipal Stormwater Program

Region 6 (Arkansas, Louisiana, New Mexico, Oklahoma, Texas)

Water Division

<u>David Reazin</u> (reazin.david@epa.gov) or 214.665.7501 – Disaster Mitigation & Resiliency
 <u>Miranda Penn</u> (penn.miranda@epa.gov) or 214.665.7417 – CWSRF and OSG
 <u>Randall Rush</u> (rush.randall@epa.gov) or 214.665.7107 – Nonpoint Source and Urban Waters
 <u>Suzanna Perea</u> (perea.suzanna@eparea.gov) or 214.665.7217 – Stormwater/Green Infrastructure

Superfund Division

Michael Kennedy (kennedy.michael@epa.gov) or 214.665.7125 – Brownfields & Smart Growth



FEMA: FEDERAL OPPORTUNITIES TO SUPPORT NATURE-BASED SOLUTIONS

SHONTAE DAVIS, Hazard Mitigation Supervisor, FEMA Region 6

LOUISIANA WATERSHED INITIATIVE

WORKING TOGETHER FOR SUSTAINABILITY AND RESILIENCE



FEMA HAZARD MITIGATION ASSISTANCE

FEMA Hazard Mitigation Assistance



FEMA has several programs that provide funding for mitigation projects and encourage climate resilience—one offered post disaster and two offered annually.

Post Disaster: Hazard Mitigation Grant (HMGP/404)

- Cost Share
 - 75% Federal
 - 25% Nonfederal

Public Assistance Mitigation (PA/406)

- Cost Share
 - 75% Federal
 - 25% Nonfederal

Annual Competitive Grants:

- Flood Mitigation Assistance
 - Community Flood Control Cost Share
 - 75% Federal
 - 25% Nonfederal
- Building Resilient Infrastructure and Communities
 - 75% Federal
 - 25% Nonfederal
 - 90% Federal
 - for small and impoverished communities



BUILDING RESILIENT INFRASTRUCTURE AND COMMUNITIES

FY 2021 funding: \$1 billion

Building Resilient Infrastructure and Communities: Nature-Based Solutions



- BRIC is a nationwide competitive pre-disaster hazard mitigation grant program with an emphasis on climate resilience.
- Project applications are allotted points for incorporating nature-based solutions.
 - 10 points for FY 2021
- FEMA benefit-cost analysis has been revised to make nature-based projects more cost effective.
- Nature-based solutions provide many ways to help adapt to the effects of climate change.

Nature-based solutions are sustainable environmental management practices that restore and/or mimic nature and natural systems that can support natural hazard risk mitigation, as well as economic, environmental and social resilience.





BRIC FY 2020: Nature-based solutions



- FEMA received 991 supplications for BRIC funding, of which 406 were selected for further review.
- The projects selected total the \$500 million that was made available for funding, with total project costs exceeding \$1.18 billion.
- Under the national competition, 18 out of the 22 mitigation projects selected include nature-based solutions.



STORMWATER FLOOD MITIGATION – \$18.61M



• BENEFITS: REDUCES FLOODING, HEAT AND HEAT ISLAND EFFECT

- Flooding in southwest Washington, D.C., regularly results in local structural damages and impacts critical facilities, such as a police station serving over 100,000 people.
- This project will incorporate subsurface (blue) and landscape (green) mitigation strategies to create a greenway corridor between two parks that collects, treats and moves water away from low-lying areas—enhancing the parks' public amenities and diverting sewer overflow.
- The resulting co-benefits will include a local reduction of heat and a heat island effect, enhancement of the parks' amenities, opportunities to raise public awareness of stormwater mitigation and the diversion of sewer overflow that impacts the Chesapeake Bay.



Oyster Lake outfall improvement





Multiple beach front homes are located at the mouth of the outfail Source: Proper GeoSolutions, https://propergeosolutions.pideet.com/oysterlakestabilization/

- Oyster Lake outfall, critical for regulating water levels and mitigating flooding, was severely degraded, and the overall health was strained from major storms and urban growth.
- Outfall was reinforced, while preserving natural vegetation with 2,000 sea oats planted.
- Selected system provided slope stabilization and erosion control.

Mitigation Action Portfolio



Resources and information



- BRIC website
- BRIC resources
- <u>Mitigation Action Portfolio</u>
- <u>Building Community Resilience with Nature-</u> <u>Based Solutions: A Guide for Local</u> Communities
- July 2020 webinar on BRIC and Nature-Based
 <u>Solutions presentation</u>
- <u>HMA Guidance</u>
 - HMA Guidance Addendum

Other resources:

- FEMA Go Helpline: <u>femago@fema.dhs.gov</u> or 1.877.611.4700
- BCA Helpline: <u>BCHelpline@fema.dhs.gov</u> or 1.855.540.6744
- Building Science Helpline: FEMA-<u>BuildingScienceHelp@fema.dhs.gov</u>
- Environmental and Historic Preservation: <u>EHPHelpline@fema.dhs.gov</u> or 1.866.222.3580
- HMA Helpline: 1.866.222.3580



LESSONS LEARNED: IMPLEMENTING GREEN INFRASTRUCTURE WITH FEDERAL FUNDING

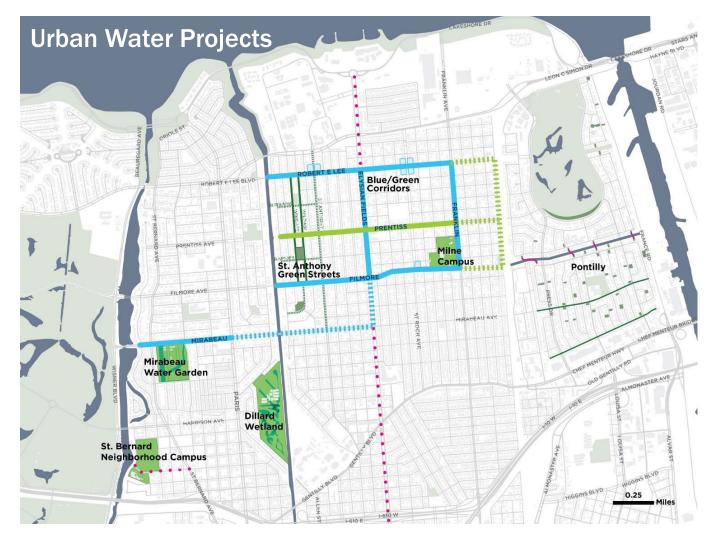
MARY KINCAID, P.E., Sustainable Infrastructure Program Manager, City of New Orleans



WORKING TOGETHER FOR SUSTAINABILITY AND RESILIENCE



Gentilly Resilience District



- Competitive grant from HUD
- Allows synergies of climate adaptation techniques and creates a model of neighborhood-scale transformation
- Stores 20 million gallons of water
- Improves access to green space in network of complete streets improvements
- Reduces property damage from subsidence
- Builds on city legacy of FEMA HMGP green infrastructure projects
- Leverages FEMA PA and HMGP funds



Project scoping



- Know your grant programs. What does each fund? What are the priorities? What are the restrictions? What is the match requirement?
 - FEMA BRIC
 - FEMA PA
 - HUD Disaster Mitigation
 - FEMA Hazard Mitigation
 - Land and Water Conservation Fund
 - FHWA Recreational Trails
- If a project is approved for hazard mitigation, use other funds to improve surface transportation or connection to transit.
- Use hazard mitigation funds in connection with disaster recovery funds to improve drainage.





LOUISIANA WATERSHED INITIATIVE

Procurement stage

- Consider an individual RFQ if existing pools are older or not federally compliant
- Ensure scope of RFQ is flexible and includes all disciplines for ability to add future funds
- Ensure RFQ states project may be funded with multiple funding sources and request Section 3 plan if HUD funding may be used
- Ensure selection is open and technical in nature
 - Publish the scoring system in the RFQ
 - Ensure guidelines for scoring are sufficiently clear and detailed to avoid wide variation in scoring
 - Convene a selection committee of technical and contracting expertise

ARCHITECT - ENGINEER QUALIFICATIONS							
THE AND LOCATER (On and Sena)							
All C Sond Dell			E BELECTATION ON MELICITIVUMEN				
B. ANONTHET REGISTER POINT OF CONTACT							
NUMBER OF TAXABLE							
AAAA IY FINA							
TERMINE WHEN		1.000	K E MAA ADDREET				
	plete this section for	C. PROPOSED TEA She prime contracto	H r and all key autoor	harden./			
Cherk/ g 505 e 200 e 200 g 200	3. FRIM NAME		ORES	11. HOLE IN THIS CONTRACT			
CHUCK IN BRIANCH	SHEET.						



Procurement stage



 If the agency does not have expertise in applying for funding, issue an RFQ for grant application assistance and design—with the stipulation that if the grant application is successful, the design contract will be awarded through amendment.

WHEREAS, the Consultant and the City acknowledge that if the City is awarded the National Disaster Resilience Competition funding, the parties will execute an amendment to this Agreement to implement the design strategy provided by the Consultant. Implementation of the design strategy provided by the Consultant is contingent on the City's receipt of the award funding and the parties acknowledge and agree that the application to the National Disaster Resilience Competition contemplates and may require services provided by Consultant after grant award.



Project design



- Are agency staff members trained in federal procurement procedures?
- Do project managers have expertise to ensure quality of designs and review model results?
 - Develop internal staff as well as employ consultant expertise.
 - Convene a review committee from multiple departments. Green infrastructure crosses multiple disciplines.
 - Consider making a local university a subrecipient if higher technical review is needed.
- Peer networks like the Green Infrastructure Leadership Exchange offer forums to exchange information with other cities.
- Organizations like the Institute for Public Procurement offer training in procurement and government contracting.



the **green** infrastructure leadership exchange





Project design

Contracting

- Ensure and document that costs are reasonable
- Include applicable terms and conditions of various funding sources, such as Section 3 compliance, record retention, lobbying
- Consider schedule protection to ensure grant deadlines are met

Community Engagement

- Build community input into design
- Include hands-on activities and demonstration mockups
- Document outreach activities with photos, videos, sign-in sheets, attendance tallies and flyers







Construction



- Watch your schedules. If one grant requires completion ahead of others, break your project into more than one construction package and complete that activity first.
- In the design phase, create discrete items to separate quantities of similar materials used for different grants (e.g., "Bioswale choker zone aggregate" for hazard mitigation and "Roadway base coarse aggregate" for disaster recovery).
- Ensure adequate staffing to provide resident inspection and construction supervision. Require contractor to provide a two-week look ahead of work zones and activities.
- Keep up with community engagement! Federally funded projects have a lot of eyes on them.

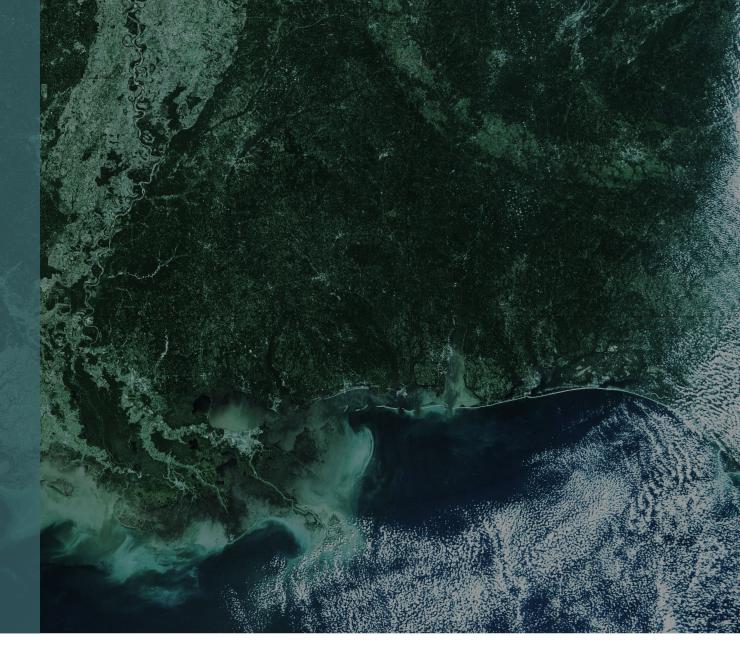




QUESTIONS?

CONTACT INFORMATION

perea.suzanna@epa.gov penn.miranda@epa.gov deyoung.robyn@epa.gov shontae.davis@fema.dhs.gov mkincaid@nola.gov



LOUISIANA WATERSHED INITIATIVE

WORKING TOGETHER FOR SUSTAINABILITY AND RESILIENCE



- f @LAWATERSHEDINITIATIVE
- ♥ @LAWATERSHED
- @LAWATERSHED
- in LOUISIANA WATERSHED INITIATIVE
- WATERSHED@LA.GOV



THANK YOU