

Plenary sessions will be recorded for note taking purposes only. Breakout sessions will not be recorded.

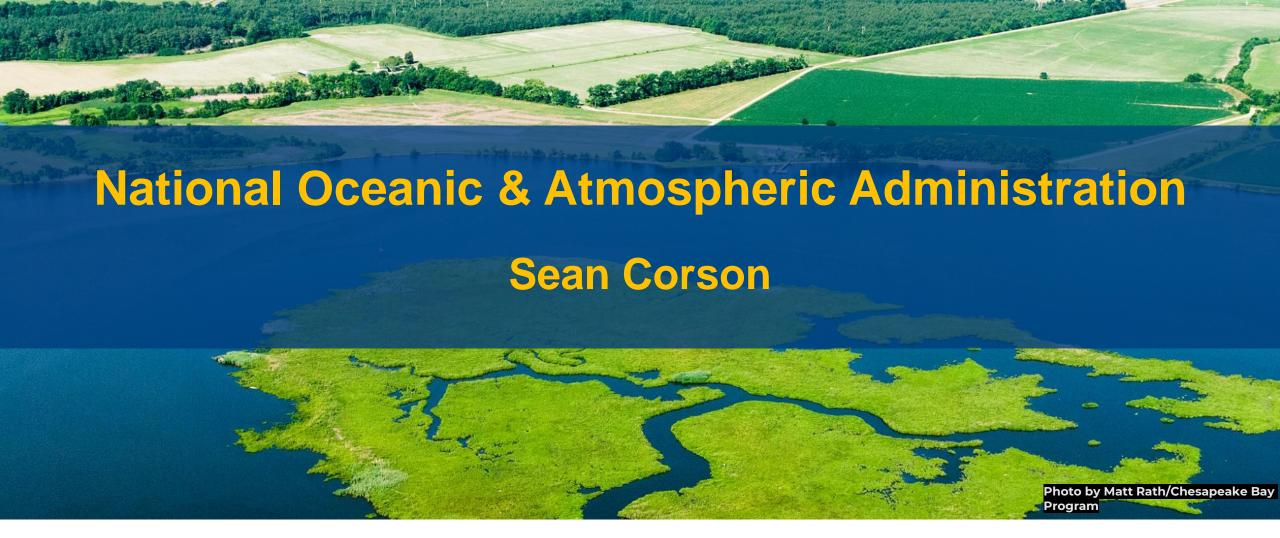
Please stay muted with your camera off unless you are scheduled to present

Virtual Meeting August 3, 2022 10am – 3:30 pm













Habitat Restoration Funding under the Bipartisan Infrastructure Law Wetlands Options

Sean Corson, NOAA August 3, 2022

Bipartisan Infrastructure Law

- Signed into law on November 15, 2021
- Unprecedented opportunity to make a difference for fisheries, threatened and endangered species, and communities
- Roughly \$3 billion for NOAA over 5 years, with significant funding for habitat restoration, conservation, and resilience
 - Learn more at noaa.gov/infrastructure-law





Habitat Restoration and Resilience Funding

- \$491 million over 5 years for restoring marine, estuarine, coastal, and Great Lakes ecosystems, and enhancing coastal community resilience
- Two funding opportunities in 2022:
 - Transformational Habitat
 Restoration and Coastal
 Resilience Grants
 - Coastal Habitat Restoration and Resilience Grants for Underserved Communities





Funding Opportunity: Transformational Habitat Restoration and Coastal Resilience Grants

- Up to \$85 million available to restore habitat for fisheries and protected resources, while also strengthening the resilience of coastal communities and ecosystems
- Award range: \$1 million to \$15 million
- Opportunity number: NOAA-NMFS-HCPO-2022-2007195
- Closes September 6
- Contact: Resilience.Grants@noaa.gov



Credit: San Mateo Resource Conservation District



Funding Opportunity: Coastal Habitat Restoration and Resilience Grants for Underserved Communities

- Up to \$10 million available to engage underserved communities in habitat restoration activities that promote resilient ecosystems and communities
- Award range: \$75,000 to \$1 million
- Opportunity number: NOAA-NMFS-HCPO-2022-2007354
- Closes September 30
- Contact:
 Underserved.Community.Grants@noaa.gov





Additional NOAA Funding for Habitat

- Fish Passage
 - 400 million over 5 years (%15
 Tribal set aside)
- National Oceans and Coastal
 Security Fund Grant Program
 - \$492 million over 5 years
- Habitat Restoration Coastal Zone
 Management Program
 - \$207 million over 5 years
- Habitat Restoration National Estuarine Research Reserves
 - \$77 million over 5 years
- Pacific Coast Salmon Recovery
 - \$172 million over 5 years



Credit: Alaska ShoreZone





Thank you!

Credit: Hawk Visuals









Funding Opportunities







Partners for Fish and Wildlife Program



Background:

- Service provides technical and financial assistance to plan, design, supervise and monitor customized habitat restoration projects.
- Available to landowners, managers, tribes, corporations, schools and nonprofits interested in improving wildlife habitat on their land
- Projects are voluntary and customized to meet landowners' needs
- Projects designed to benefit federal trust species including migratory birds, endangered, threatened and at-risk species
- Priority given to projects that provide habitat for rare, threatened and endangered species
- Projects have a minimum duration of 10 years
- The Service partners with other federal agencies, state agencies and nongovernmental organizations to complete projects on private lands
- Landowners do not forfeit property rights and not required to allow public access



Partners for Fish and Wildlife Program



Northeast Region Goals include:

- Conserve and Protect Habitat: for listed and at-risk species, connecting aquatic and terrestrial habitats, and by Restoring and protecting resilient ecosystems
- Broaden and Strengthen Partnerships: Engage and facilitate key partnerships that will restore important fish and wildlife habitats
- Improve Information Sharing and Communication: engage with communities, schools, and congressional members to increase program awareness, share success stories, and connect people with nature
- Increase Accountability: ensure actions are effective and that they promote transparency

Funding levels:

- FY 2022 \$57,715,000
- FY2023 House mark \$69,897,000; Senate mark \$60,867,000



Chesapeake Watershed Investments for Landscape Defense (Chesapeake WILD)



The Chesapeake WILD program's framework is organized around five themes, or "Pillars," that inform the program's focus:

- 1. Sustain and enhance restoration and conservation activities by conserving a resilient network of fish and wildlife habitats and connecting corridors, with an emphasis on at-risk and federally listed species and their habitats.
- 2. Address climate change by increasing scientific capacity and supporting strategic planning, monitoring, and applied science activities necessary to ensure resilience of natural ecosystems and habitats impacted by changing climate and development.
- 3. Increase capacity and support for coordinated restoration and conservation activities in the Chesapeake Bay watershed, particularly in historically and systemically underresourced communities, through outreach, education, and civic engagement.
- 4. Enhance recreational opportunities and public access with a strong emphasis on equitable access to nature and all associated benefits, consistent with the ecological needs of fish and wildlife habitat.
- 5. Improve and sustain water quality, upgrade water-management capability, and reduce flood damage, with an emphasis on green infrastructure and natural infrastructure to support fish and wildlife populations, their habitats, and drinking water for people.



Chesapeake Watershed Investments for Landscape Defense (Chesapeake WILD)



The Chesapeake WILD grant program complements existing investments in clean water for wildlife and people by supporting projects that are of exceptional value for fish and wildlife, outdoor recreation, climate resiliency, community engagement, and equitable access to the outdoors that cannot be funded by other restoration grant programs

- FY 2022 Chesapeake WILD program received \$4 million
- Used the NFWF and EPA Chesapeake Stewardship Fund Small Watershed Grant program to announce potential funding of Chesapeake WILD funds
- FY 2023, will use a separate RFP for Chesapeake WILD funding \$15 million House mark; \$6 million Senate mark



America the Beautiful



Conserving and Restoring America the Beautiful report - core areas of need

- 1. Conserving and restoring rivers, coasts, wetlands and watersheds
- 2. Conserving and restoring forests, grasslands and other important ecosystems that serve as carbon sinks
- 3. Connecting and reconnecting wildlife corridors, large landscapes, watersheds and seascapes
- 4. Improving ecosystem and community resilience to flooding, drought, and other climate-related threats
- 5. Expanding access to the outdoors, particularly in underserved communities

Funding: \$375M over 5 years Eligible: States, territories, and Tribes

DOI Conservation and Restoration Funds – Match Requirements

- States 90% of costs 10% of costs, at least 2.5% must be cash
- Tribes & Territories 97% of costs 3% of costs, at least .75% must be cash



Other Opportunities

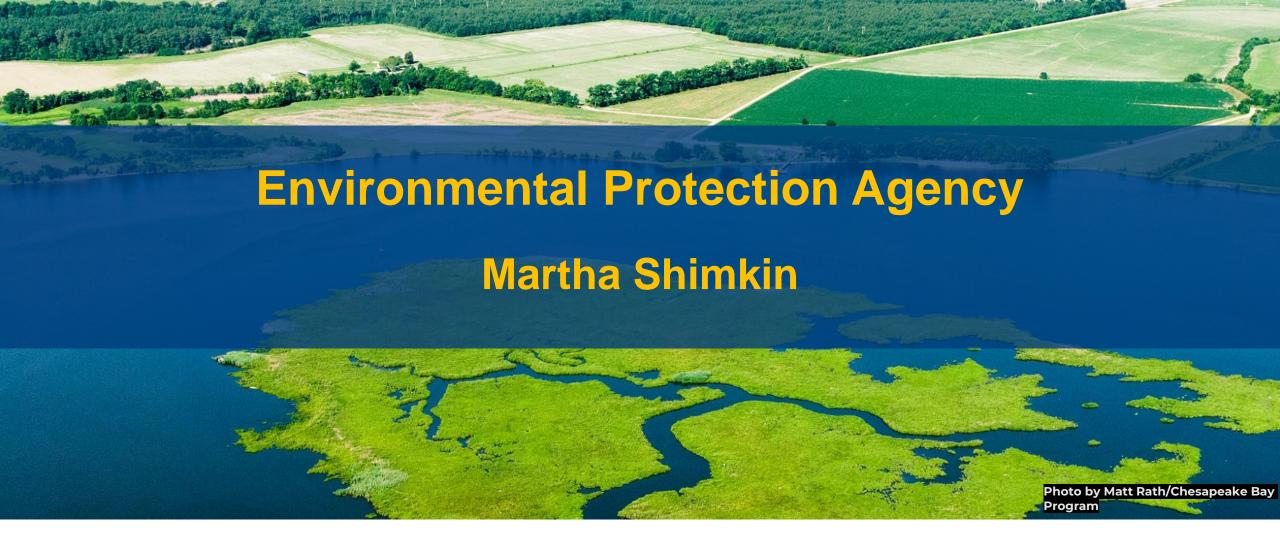


Fish Passage:

- program funding and
- BIL funding \$200 million/year for 5 years

National Coastal Wetlands Conservation Grants:

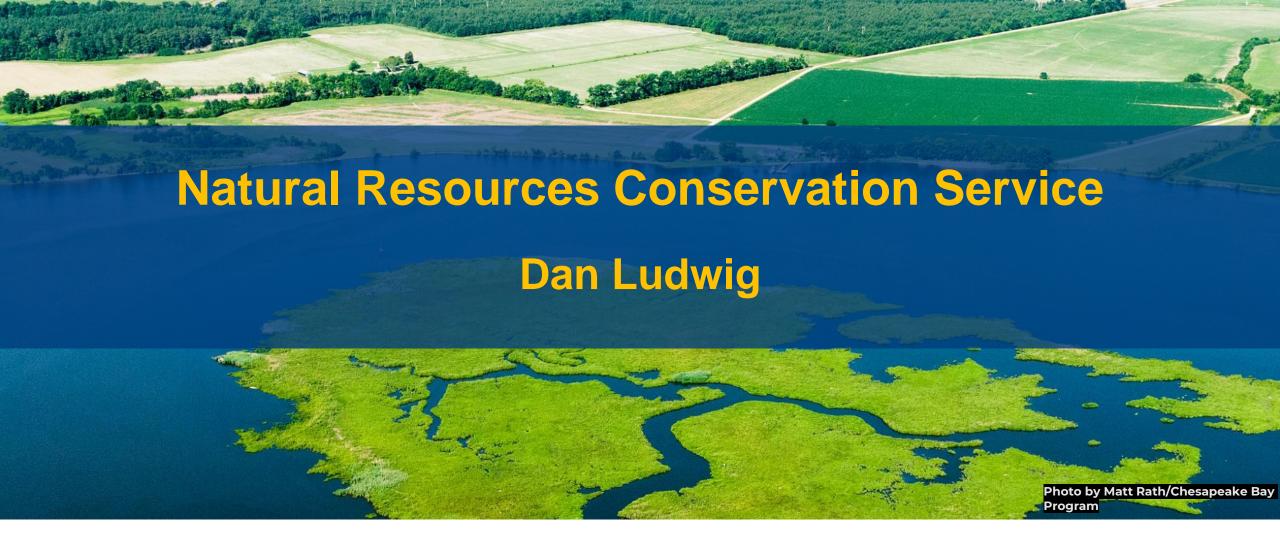
 In 2022, 25 projects in 13 states were awarded a total of over \$20.1 million to protect and/or restore over 61,000 acres of priority coastal and riparian habitat, and several miles of shoreline



VERBAL PRESENTATION

(Notes will be included in the Meeting Minutes)





VERBAL PRESENTATION

(Notes will be included in the Meeting Minutes)







USACE Aquatic Ecosystem Restoration

Michelle Hamor
Chief, Planning and Policy Branch
U.S. Army Corps of Engineers, Norfolk District

2022 Restoring Wetlands of the Chesapeake Bay Watershed Workshop 3 August 2022

"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."

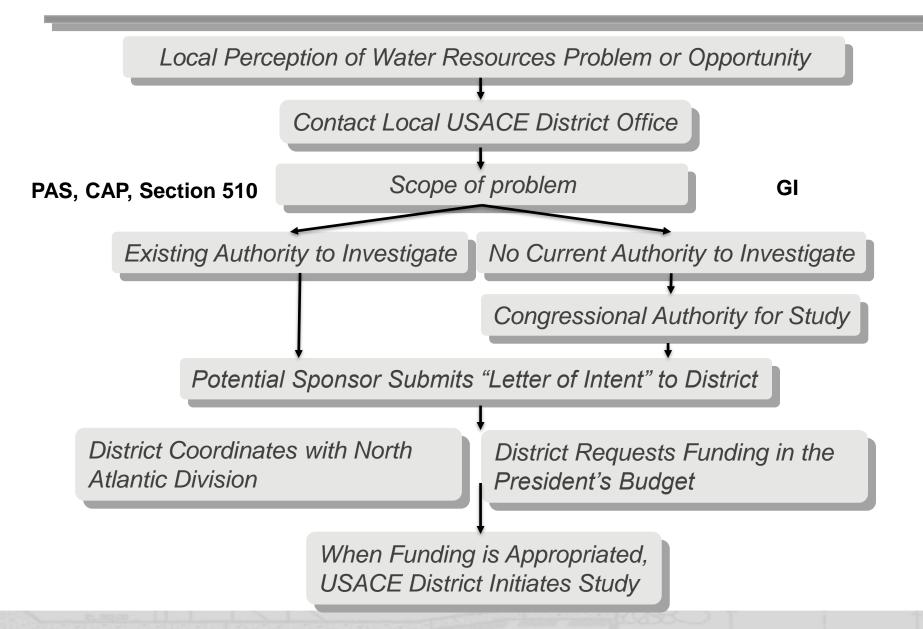




USACE Programs for Ecosystem Restoration

Program	Туре	Cost Share	Example
Planning Assistance to States (PAS)	Technical Assistance, ~\$25K - \$100K	50/50	Shoreline and Oyster Reef Restoration, Menchville Marina, Deep Creek, Newport News (Complete)
Section 510, Chesapeake Bay Environmental Restoration and Protection Program	Small Projects <\$10M	Feasibility: 100% Federal D&I: 75/25	Middle Peninsula State Park Living Shoreline (Proposed)
Continuing Authority Program (CAP), Section 204, Beneficial Use of Dredged Material	Small Projects <\$10M	Feasibility: 100% Federal D&I: 65/35	Hampton Roads Beneficial Use of Dredged Material (Feasibility)
CAP, Section 206 , Aquatic Ecosystem Restoration	Small Projects <\$10M	Feasibility: 50/50; D&I: 65/35	Belle Isle State Park (Proposed)
General Investigations	Large Projects >\$10M	Feasibility: 50/50; D&I: 65/35	Lynnhaven River Basin Ecosystem Restoration (Construction)

How to Access Funding



Closing Thoughts

1. Anticipate and prepare for the need with a list of risk areas based on priority/funding

- 2. Map outlining areas of risk (multiple benefits, erosion, flood risk)
- 3. Watershed/State priority list
- 4. Local Government, NGO, Coordination
- 5. List of funding programs













WE'RE OPEN FOR BUSINESS - AND WE NEED YOU!

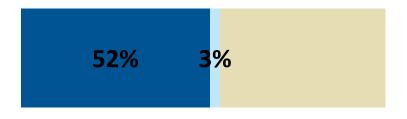
American black duck

NFWF will support the recovery of American black duck by increasing wetland habitat and available food to support 5,000 wintering black ducks, or 5% of the Chesapeake Bay Watershed Agreement goal for wintering black duck populations. Activities contributing to this outcome by 2025 include:



- Creating, reestablishing, or enhancing the function of 7,000 acres of tidal and non-tidal wetlands to increase black duck carrying capacity through improved food resources.
- Increasing available food resources by 680 million kilocalories.

Acres created, restored, or enhanced



3,000+ additional acres needed by 2025



CHESAPEAKE BAY STEWARDSHIP FUND GRANTS PROGRAMS

	INNOVATIVE NUTRIENT AND SEDIMENT REDUCTION GRANTS	SMALL WATERSHED GRANTS	CHESAPEAKE WILD	
PRIMARY FUNDER	U.S. EPA	US.EPA	U.S. FWS	
PRIMARY OBJECTIVE	·		ons to protect and restore water quality, I habitats in the Bay watershed	
PROGRAM TIMELINE	Fall solicitation / Spring awards	Spring solicitation / Summer awards		
AWARD RANGE	\$500,000 - 1,000,000	\$75,000 - 500,000	\$75,000 - 750,000	
MATCH REQUIREMENTS	Base Program: 1:1 non-Federal Infrastructure Funding: Not required*	Base Program: 1/3 of request Infrastructure Funding: N/A	1:1 match requirement, up to half from non-DOI federal sources	
FY23 FUNDING (EST.)	\$20M	\$30M	\$5.5M	
WETLAND FIT	Non-tidal only	Tidal and non-tidal		







Funding Clean Water Projects!!











How Can PENNVEST Help?

- Drinking Water Public/Private
- Wastewater Public/Private
- Stormwater Public/Private
- Non-Point Source
 - Ag BMPs Public/Private
 - Acid Mine Public/Private
 - Brownfield Public/Private
 - Green Infrastructure Public/Private
 - Onlot Systems Principal Residence
 - Sewer Lateral Repair/First-Time Hookup Principal Residence
- Lead Testing and Remediation Schools and Childcare facilities



PENNVEST Financing

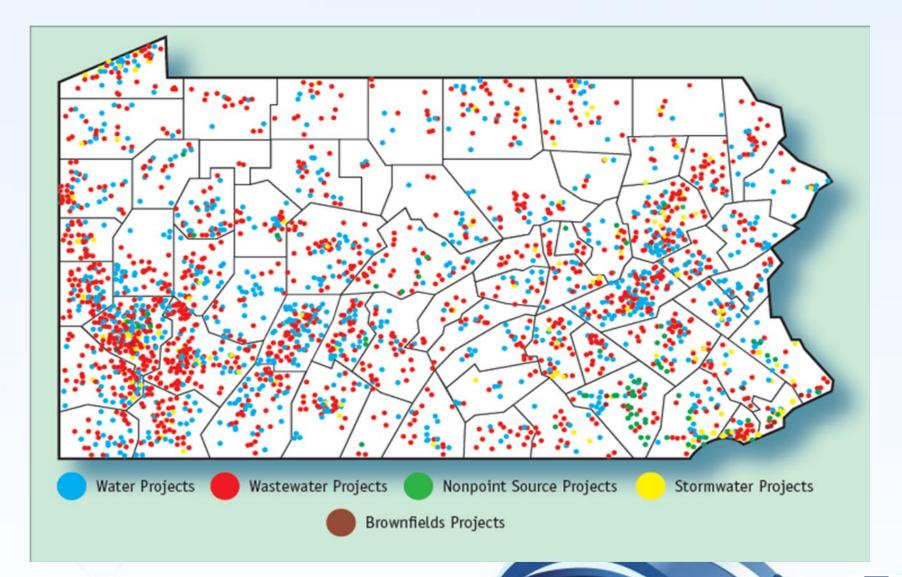
Projects Approved: 4,523 for a Total Funding of \$10.7 Billion

\$800 Million Budgeted for 2022-2023

- 1,162 Drinking Water
- 1,736 Wastewater
- 17 Brownfield
- 185 Non-Point Source
- 3 Acid Mine Drainage
- 149 Stormwater
- 1,019 Onlot Repairs
- 24 Sewer Laterals Replaced
- 228 New Sewer Connections



PROJECTS DISTRIBUTION STATEWIDE





PENNVEST BOARD MEETINGS

APPLICATION CUT-OFF DATES

May 4, 2022 August 3, 2022 November 2, 2022 February 1, 2023 May 3, 2023 **BOARD MEETING DATES**

July 20, 2022

October 19, 2022

January 18, 2023

April 19, 2023

TBD











- The collection and evaluation of information for project review, ranking, and recommendation
- Submittal of bid, project costs, contracts, and documents necessary for settlement
- Submittal, review, and disbursement of eligible costs associated with implementation of construction
- PENNVEST review of change orders and project close-out
- Collection of repayments and annual financial statements
- Electronic signature

24/7 access to the information and status of your project along the way!



PENNVEST CONTACTS

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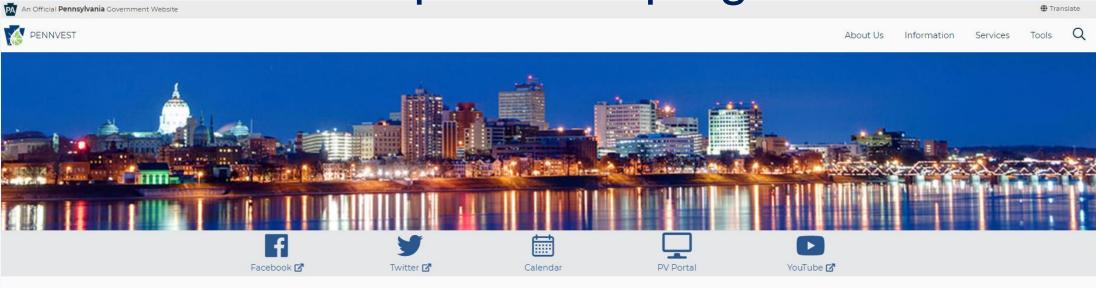
Region 5 – Northcentral PA



Leslie Cote 717-783-4489 lecote@pa.gov



www.pennvest.pa.gov









Mission

Update Regarding COVID-19

Payment Deferral

Funding Programs

PRESS RELEASES



Gov. Wolf Announces \$450 Million Loan Program for Financially Strained Hospita

Governor Wolf Announces \$
Million Investment in Water
Infrastructure Projects in 15
Counties

Covernor Wolf Announces CO

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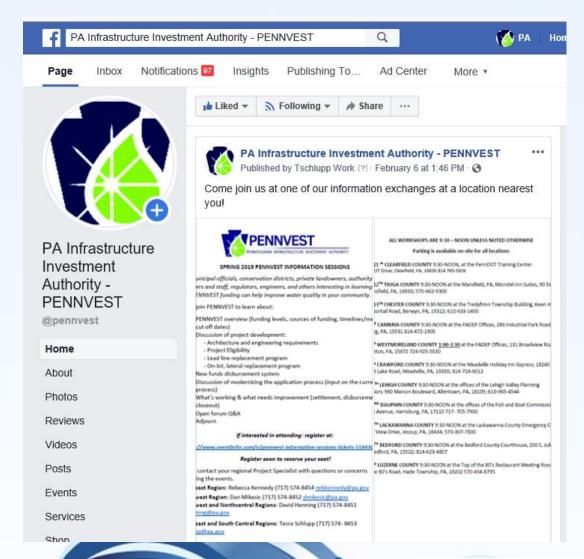
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Clean Water Financing & Assistance Program



Clean Water Financing & Assistance Program

- Virginia Clean Water Revolving Loan Fund (VCWRLF aka CWSRF)
- Water Quality Improvement Fund (WQIF)
- Stormwater Local Assistance Fund (SLAF)

- Annual solicitation- June July
- Local Gov't, PSA's, Non-profits
- Eligible project types include:
 - Publicly owned wastewater collection and treatment facilities
 - Publicly owned stormwater best management practices
 - Remediation of contaminated brownfield properties
 - Land conservation
 - Living shorelines
 - Agricultural best management practices

- Opportunities for wetlands restoration/enhancements
 - Projects may be eligible for funding under SW or WW Loan
 - Stand alone or project with co-benefit
 - May qualify for Green Project Reserve
 - Some projects qualify for o% equivalent interest rate
 - Some receive subsidized program rate
 - Additional Principal Forgiveness (grant) possible
 - Pairing with Stormwater Local Assistance Fund (50/50 matching grant program) may provide additional grant funding

- Challenges-
 - Project Identification
 - 2. Responsible parties
 - 3. Partnership arrangements
 - 4. Debt service are hard sell on non-utility projects
 - Many projects in pursuit of water quality credit (permit compliance)

- Project examples
- 1. City of Norfolk DPU- Constructed Wetlands & Living Shorelines
- 2. MPPDC- Living Shorelines
- 3. City of Waynesboro- Constructed Wetland
- 4. SLAF- Many projects are stream restorations with floodplain reconnection and wetland restoration/enhancement



Questions?

Mike Crocker, Jr Regional Team Manager michael.crocker@deq.virginia.gov 804-929-5635



.PDF is posted to the CBP Calendar





.PDF is posted to the CBP Calendar









Funding Opportunities; Chesapeake and Coastal Service

Wetlands Outcome
Attainability Workshop
August 3, 2022

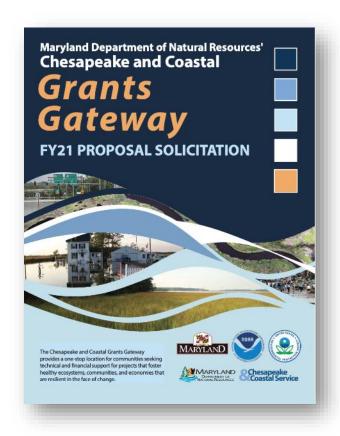
Grants Gateway



One-stop location for partners seeking technical and financial support for projects that foster healthy ecosystems, communities, and economies that are resilient in the face of climate change.

Grants are made with funding through:

- Chesapeake and Atlantic Coastal Bays Trust Fund
- Coastal Resiliency Program
- Waterway Improvement Fund,
- NOAA
- •EPA's Chesapeake Bay Program



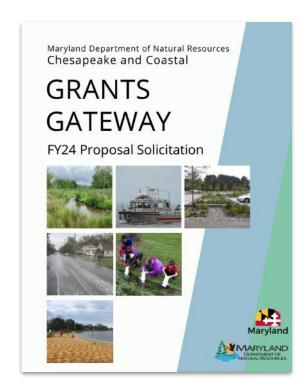
https://dnr.maryland.gov/ccs/Pages/funding/grantsgateway.aspx

Reduces administrative burden on applicants * Allows state to better leverage across fund sources * Supports more comprehensive review and project investment

Grants Gateway



- Outcome 1 Accelerate recovery and restoration of natural resources by implementing non-point source pollution reduction projects.
- Outcome 2 Enhance capacity to understand and effectively plan to address flood risks associated with a changing climate.
- Outcome 3 Utilize natural and nature-based infrastructure to enhance resilience to climate change.
- Outcome 4 Improve student ability to take action benefiting Chesapeake and coastal ecosystems through outdoor learning and stewardship.
- Outcome 5 Foster sustainable development and use of Maryland waterways with projects that benefit the general boating public.



Outcome 1





In 2007, Maryland General Assembly took a bold step in their efforts to restore the Chesapeake Bay with the creation of the **Chesapeake and Atlantic Coastal Bays Trust Fund (Trust Fund)**



The Trust Fund allows Maryland to accelerate Bay restoration by focusing limited financial resources on the most cost effective non-point source pollution control projects



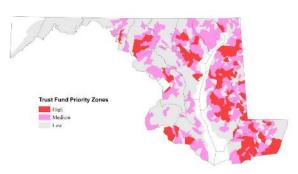
Funding is generated through <u>motor fuel and car rental tax</u> in Maryland. When fully funded, the Trust Fund will generate upwards of \$50 M annually in support of watershed restoration

Project Selection



Geographic Targeting (current)

Funds are annually targeted to specific watersheds, watershed areas, projects and practices that provide the most cost-effective water quality benefit to the Chesapeake and Coastal Bays via reductions in non-point source nutrient and sediment loadings.



Future of Geographic Targeting: Pilot FY2024

Targeting will move away from a static map where watersheds are ranked, and instead the user will highlight at the landscape scale how the project achieves nutrient/sediment reductions while also providing cobenefits.

Potential targeted co-benefits:

- restoration of aquatic resources including SAV and oyster reefs;
- climate resilience and carbon sequestration;
- creation of wildlife habitat;
- local employment opportunities;
- the improvement or provision of recreational opportunities;
- environmental justice benefits.

Project Selection



Cost-Efficiency

Projects are ranked on their cost-efficiency based on the request to the state funds.

Defined as the state cost per pound of nutrient and sediment reduced*.

FIELDDOC.ORG

Readiness and Ability to Proceed

Project solicitation prioritizes projects that are fully designed and permitted. This allows the state to have a full understanding of the investment and returns.

Managers also consider applicant's past success with the fund (ability).



Spotlight on Wetlands



- Wetland Restoration meets Trust Fund goals
 - o cost effective for the sediment & nutrient reductions,
 - numerous co-benefits (wildlife habitat, carbon sequestration, flood storage...)
- Since 2010, The Trust Fund has supported more than 3,000 acres of wetland restoration projects.
- Project Mapper & Story map available online.



Outcome 3



Resiliency through Restoration: Utilize natural and nature-based infrastructure to enhance resilience to climate change.

Proposed projects:

- may support design, engineering and implementation of projects that restore, create, and strengthen natural infrastructure to enhance community resilience to flooding, erosion, and sea level rise.
- must be nature-based and provide risk-reduction and community-wide benefits (i.e. benefits more than one property owner and protects community infrastructure and/or assets).
- state how the project will address climate-related impacts in the short term (1-10 years) and long term (+10 years) based on the life expectancy of the proposed project.

Outcome 3

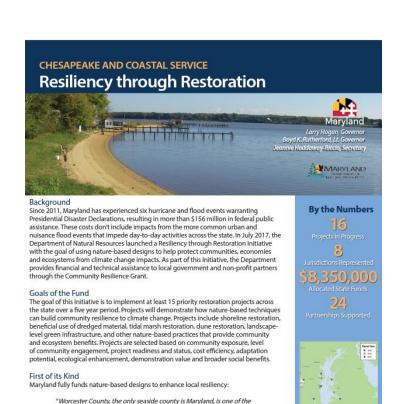


Resiliency through Restoration Pilot Projects

Through the state's Community Resilience Grant, 19 innovative resiliency projects were funded in FY 2018 through 2021.

Projects cover a breadth of restoration techniques, including:

- marsh restoration and enhancement,
- dune restoration,
- natural shoreline stabilization,
- beneficial use of dredged material,
- island restoration, stream restoration,
- and green stormwater practices.



most vulnerable Maryland counties to sea level rise and climate change. The coastal environment is also the bedrock of our local tourism-based economy. Our waterfront communities are increasingly vulnerable and

their protection poses numerous challenges. It's essential that we seek solutions for adapting to damaging storms, rising waters, and migrating

-Katherine Munson, Worcester County

coastlines and marshes."

Building a pipeline







Chesapeake Bay Trust and Maryland State Agency 2019-2020 Watershed Assistance Grant Program



Watershed Assistance Grant Program

- Provides funding for design and watershed assessment
- Allows Trust Fund to target construction-ready projects
 - Better understanding of outcomes and effectiveness, project viability and cost-efficiency

Contact Information



Thank you for your time.



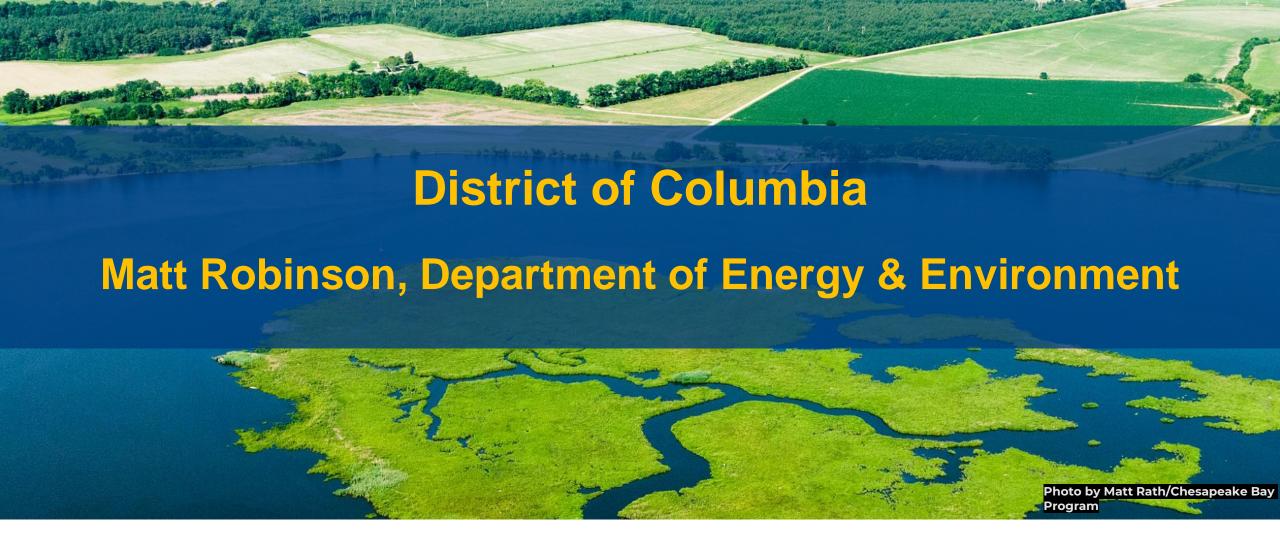
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VERBAL PRESENTATION

(Notes will be included in the Meeting Minutes)





