



Civil & Environmental Consultants, Inc.

# Funding Options for Water Quality Implementation

Prepared for:

*Toledo Metropolitan Area Council of Governments  
Water Quality Council*



**Deanna M. Bobak**  
*September 11, 2023*





Thousands have lived without love  
not one without water

W.H. AUDEN



# Infrastructure Investment and Jobs Act

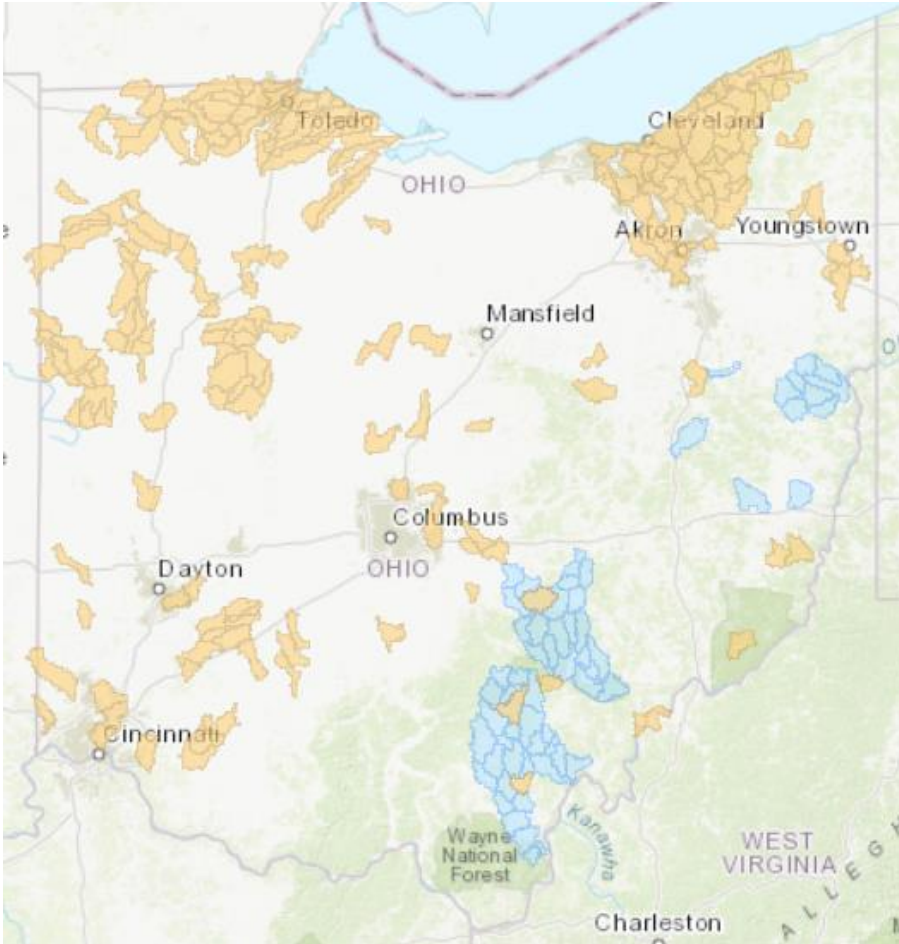
- July 2021: \$1.2 Trillion - \$550 Billion in new funding

Program Name	Agency Name	Funding Amount
Drinking Water State Revolving Fund Lead Service Lines Replacement	Environmental Protection Agency	\$15,000,000,000
Drinking Water State Revolving Fund	Environmental Protection Agency	\$11,713,000,000
Clean Water State Revolving Fund	Environmental Protection Agency	\$11,713,000,000
Water Infrastructure Improvements for the Nation, Small and Underserved Communities Emerging Contaminants Grant Program	Environmental Protection Agency	\$5,000,000,000
Drinking Water State Revolving Fund Emerging Contaminants (incl. PFAS)	Environmental Protection Agency	\$4,000,000,000
Indian Health Service Sanitation Facilities Construction Program	Department of Health and Human Services	\$3,500,000,000
Aging Infrastructure Account	Department of the Interior	\$3,200,000,000
Indian Water Rights Settlements	Department of the Interior	\$2,500,000,000
Water & Groundwater Storage, And Conveyance	Department of the Interior	\$1,150,000,000
Water Recycling	Department of the Interior	\$1,000,000,000
Rural Water Projects	Department of the Interior	\$1,000,000,000
Clean Water State Revolving Fund-Emerging Contaminants	Environmental Protection Agency	\$1,000,000,000
Geographic Programs - Great Lakes Restoration Initiative	Environmental Protection Agency	\$1,000,000,000
Dam Safety Program	Department of the Interior	\$500,000,000
WaterSMART Grants	Department of the Interior	\$400,000,000
Water Desalination Projects	Department of the Interior	\$250,000,000
Geographic Programs - Chesapeake Bay Program	Environmental Protection Agency	\$238,000,000
Safety of Dams, Water Sanitation, And Other Facilities	Department of the Interior	\$200,000,000
National Estuary Program Grants	Environmental Protection Agency	\$132,000,000
Geographic Programs - Long Island Sound	Environmental Protection Agency	\$106,000,000
Watershed Management Projects	Department of the Interior	\$100,000,000
Geographic Programs - Puget Sound	Environmental Protection Agency	\$89,000,000
Geographic Programs - Columbia River Basin Restoration Program	Environmental Protection Agency	\$79,000,000
Geographic Programs - Lake Pontchartrain Restoration Program	Environmental Protection Agency	\$53,000,000
Geographic Programs - Gulf of Mexico	Environmental Protection Agency	\$53,000,000
Central Utah Project	Department of the Interior	\$50,000,000

Program Name	Agency Name	Funding Amount
Promoting Resilient Operations for Transformative, Efficient, and Cost-Saving Transportation (PROTECT) - Formula	Department of Transportation	\$7,299,999,998
Flood Mitigation Assistance Grants (National Flood Insurance Act Sec 1366)	Department of Homeland Security	\$3,500,000,000
Coastal Storm Risk Management, Hurricane, And Storm Damage Reduction Projects	Department of Defense – Army Corps of Engineers	\$2,550,000,000
Inland Flood Risk Management Projects	Department of Defense – Army Corps of Engineers	\$2,500,000,000
Aquatic Ecosystem Restoration Projects	Department of Defense – Army Corps of Engineers	\$1,900,000,000
Promoting Resilient Operations for Transformative, Efficient, and Cost-Saving Transportation (PROTECT) - Discretionary	Department of Transportation	\$1,400,000,000
Promoting Resilient Operations for Transformative, Efficient, and Cost-Saving Transportation (PROTECT) - Discretionary	Department of Transportation	\$1,400,000,000
Building Resilient Infrastructure and Communities (Robert T Stafford Act Section 203(i))	Department of Homeland Security	\$1,000,000,000
Community Wildfire Defense Grant Program For At-Risk Communities	Department of Agriculture	\$1,000,000,000
State and Local Cybersecurity Grant Program	Department of Homeland Security	\$1,000,000,000
Wildfire Management - Fuels Management	Department of the Interior	\$878,000,000
Reforestation Trust Fund (Replant Act)	Department of Agriculture	\$528,000,000
Hazardous Fuels Management	Department of Agriculture	\$514,000,000
Hazard Mitigation Revolving Loan Funds/Safeguarding Tomorrow through Ongoing Risk Mitigation (STORM) Act (Robert T Stafford Act, Sec 205)	Department of Homeland Security	\$500,000,000
Watershed And Flood Prevention Operations	Department of Agriculture	\$500,000,000
National Oceans and Coastal Security Fund	Department of Commerce	\$492,000,000
Flood and Inundation Mapping and Forecasting, Water Modeling, and Precipitation Studies	Department of Commerce	\$492,000,000
Habitat Restoration	Department of Commerce	\$491,000,000
Federal Wildland Firefighter Salaries And Expenses	Department of Agriculture	\$480,000,000
Continuing Authorities Program (Under Flood Control Act And River And Harbor Act)	Department of Defense – Army Corps of Engineers	\$465,000,000
Hazardous Fuels (Mechanical Thinning And Timber Harvesting; Precommercial Thinning In Young Growth)	Department of Agriculture	\$400,000,000
Financial Assistance To Facilities That Purchase And Process Byproducts For Ecosystem Restoration Projects	Department of Agriculture	\$400,000,000
Grants For States And Tribes For Voluntary Restoration	Department of the Interior	\$400,000,000
Burned Area Recovery	Department of Agriculture	\$325,000,000
Department of Interior Wildfire Management - Burned Area Rehabilitation	Department of the Interior	\$325,000,000
Colorado River Drought Contingency Plan	Department of the Interior	\$300,000,000
Emergency Watershed Protection Program	Department of Agriculture	\$300,000,000
Flood Control and Coastal Emergencies	Department of Defense – Army Corps of Engineers	\$251,000,000



# Section 319(h) – Clean Water Act



- Federal funding source pushed to states
  - Ohio: \$2.4M-\$2.8M
  - \$50K-\$330K
  - 60:40 match
- Administered by Ohio EPA
- Nonpoint source pollution
- Annual RFP
- Requires 9-Element Plan (NPS-IS)
- Implementation funding

# Types of Projects – 319 Focus

## Nonpoint Source Reduction (Agricultural)

- Grassed waterways
- Treatment filter areas (FOTG 393)
- WASCOBs
- Drainage water management (water control structures, blind inlets)
- Nutrient removal wetlands
- Bioreactors

## Altered Stream and Habitat Restoration

- Wetland restoration
- Stream restoration (natural channel design)
- Floodplain reconnection and restoration
- Daylighting streams
- Floodplain bench connection (two-stage design)
- Lowhead dam removal
- Streambank stabilization (bio-engineering)

## Urban Sediment and Nutrient Reduction

- Stormwater retrofits
- Green infrastructure practices
- Infiltration practices (grassed swales, bioretention, rain gardens, infiltration basins, vegetative breaks, filter strips, green roofs)
- Passive treatment (wetlands, riparian buffers)

# H2Ohio

**H2Ohio**

**Targeted  
Priorities**

[h2.ohio.gov](http://h2.ohio.gov)



**MIKE DEWINE**  
GOVERNOR OF OHIO

[www.Governor.Ohio.gov](http://www.Governor.Ohio.gov)



**Reducing  
Phosphorus**



**Creating Wetlands**



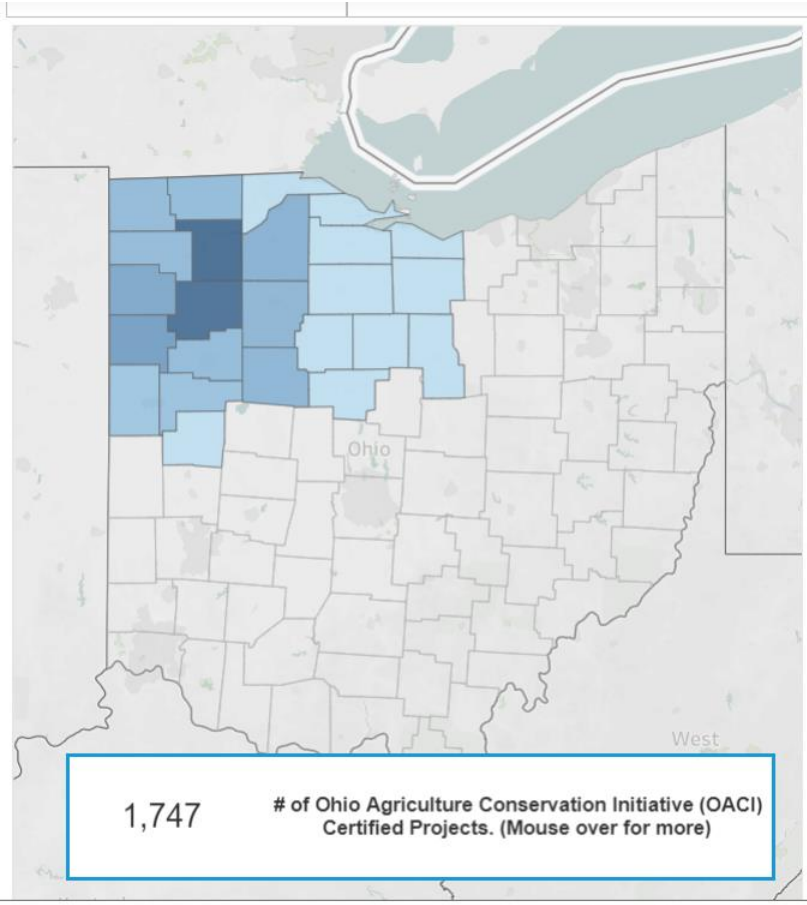
**Addressing Failing  
Septic Systems**



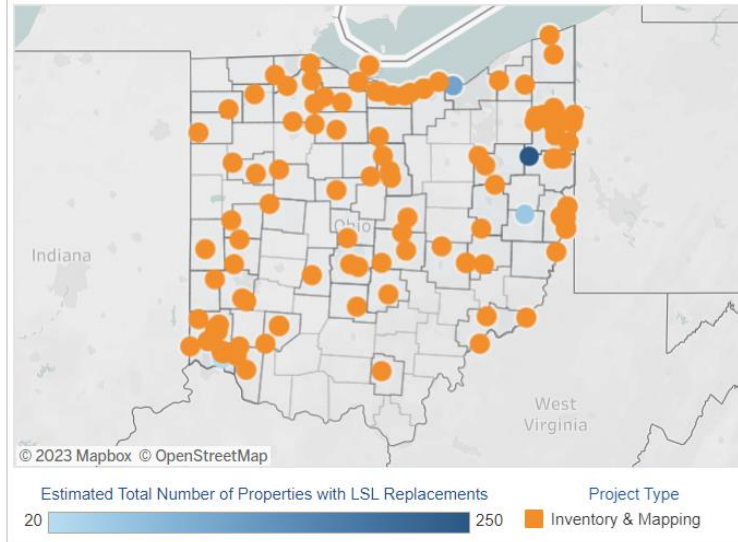
**Preventing Lead  
Contamination**



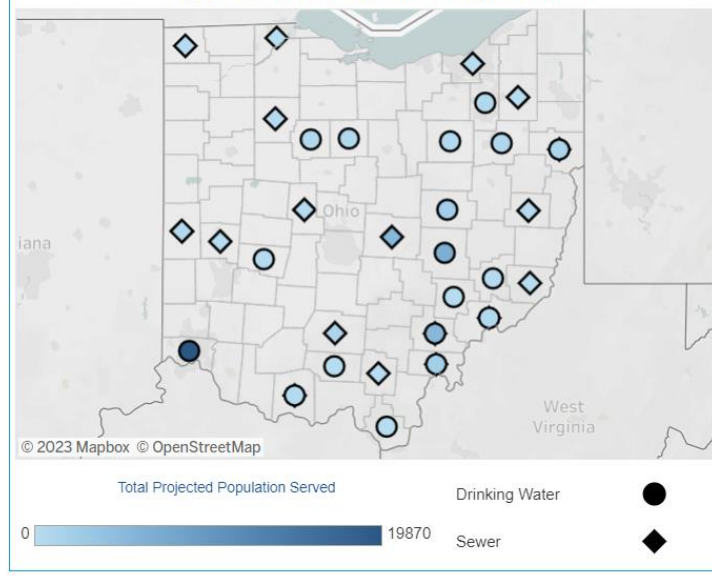




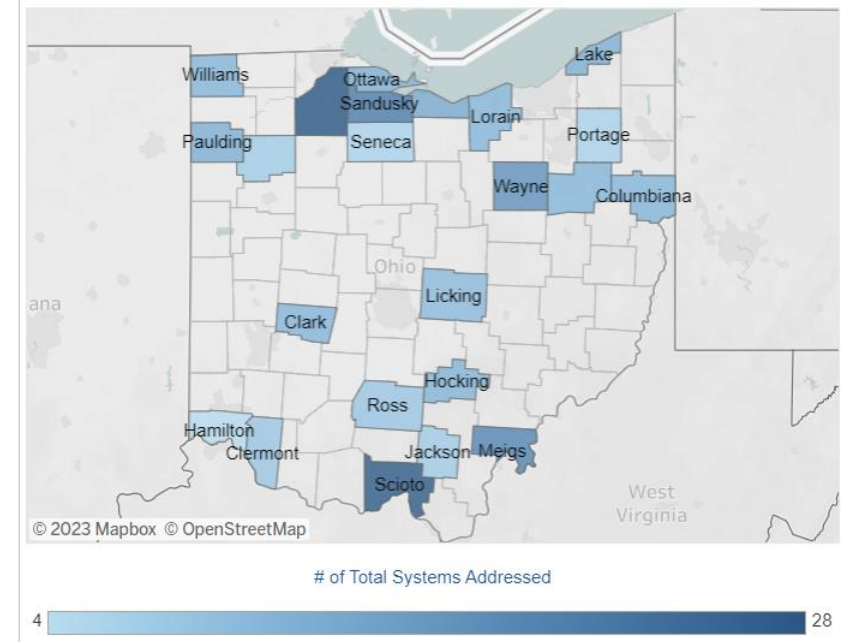
### Lead Service Line Replacements and Inventory and Mapping Metrics Map: Totals

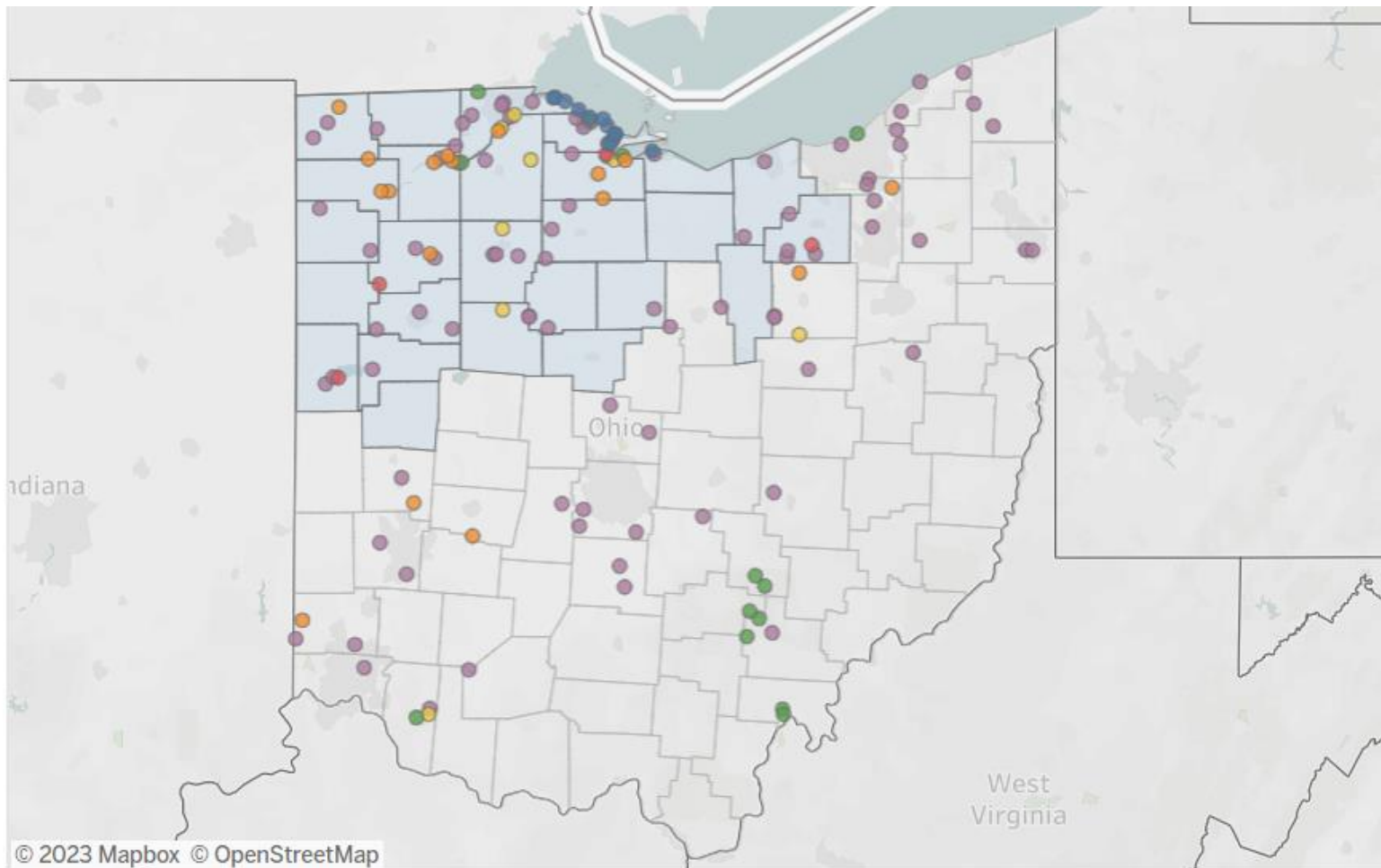


### Drinking Water / Wastewater Infrastructure Improvements Metrics Map: Totals



### Home Sewage Treatment Systems Metrics Map: Totals





#### Project Type

- |  |   |
|--|---|
| <span style="color: blue;">■</span> Coastal Wetland Reconnection               | <span style="color: green;">■</span> Other                    |
| <span style="color: orange;">■</span> Floodplain Reconnection                  | <span style="color: yellow;">■</span> Planning Phase Contract |
| <span style="color: teal;">■</span> Monitoring Program & Projects in Design... | <span style="color: purple;">■</span> Wetland Restoration     |
| <span style="color: red;">■</span> Multiple Locations                          |   |

#### MAP KEY

- |  |
|--|
| <span style="color: lightblue;">■</span> Maumee River Watershed  |
| <span style="color: lightblue;">■</span> Western Lake Erie Basin |
| <span style="color: red;">■</span> Lake Erie / Ohio River Divide |

- Evolution over time
  - WLEB focus
  - Ohio River Basin
  - 2023 Statewide – ORB and CLEB
- No match required
- Acquisition + implementation



# H2Ohio Rivers Initiative

- Address the issue of rising salinity in Ohio's rivers and streams
- Implement a river restoration program for large river tributaries and preserve the rivers in Ohio that are already in good health
- Remove specific dams on rivers and major tributaries to enhance water quality, fish passage, and migration
- Enhance Ohio's litter cleanup program to put more focus on our rivers and streams to remove not just trash, but large objects like cars, tires, and appliances from our water
- Remediate waters impacted by acid mine drainage to enhance their ability to support aquatic life

**H2Ohio Rivers Initiative**

Monitoring & Data Collection  
Restoring River Health  
Preserving Healthy Rivers

**WHAT IS IT?**  
As part of Governor DeWine's executive budget, he has proposed the development of the H2Ohio Rivers Initiative, which would work to improve water quality, ensure community health, protect wildlife, support economic development, and provide opportunities for recreation in and along Ohio's largest rivers.

**\$58.8M 2024-2025 INVESTMENT REQUEST**

**WHY IT MATTERS.**  
An expansion of the H2Ohio Initiative, the H2Ohio Rivers Initiative will place an emphasis on the preservation and improvement of our rivers, which provide critical wildlife habitat, drinking water, and recreation space.

**KEY STEPS**

- Monitoring & Data Collection**  
Expand survey of contaminants in Ohio's rivers and expand monitoring of Ohio's fish and mussel populations.
- Restoring River Health**  
Clean and restore Ohio's riverways in need.
- Preserving Healthy Rivers**  
Preserve Ohio's high-quality riparian areas to maintain healthy waterways for the future.

**Critical Wildlife Habitat**  
Flowing rivers and their forested banks are critical for migration, nesting, and survival of fish and other wildlife.

**River Integrity**  
Strategic dam removal, stream litter cleanup, and removal of contaminants left behind by acid mine drainage will restore rivers.

**Protect Drinking Water**  
The health of Ohio's waterways has a direct impact on drinking water. Healthier rivers will recharge aquifers that Ohio communities rely on.

**Recreation Space**  
Improved water quality will contribute to better boating, fishing, and exploration of Ohio's rivers.

**Additional Conservation Benefits**  
The Conservation Reserve Enhancement Program (CREP) expansion will create grassed filter strips, wetlands, and forested riparian buffers along streams and ditches to improve watersheds.

MIKE DEWINE GOVERNOR OF OHIO | hio | Department of Agriculture | Ohio Department of NATURAL RESOURCES | Ohio Environmental Protection Agency | Ohio | Lake Erie Commission

# Water Resource Restoration Sponsor Program

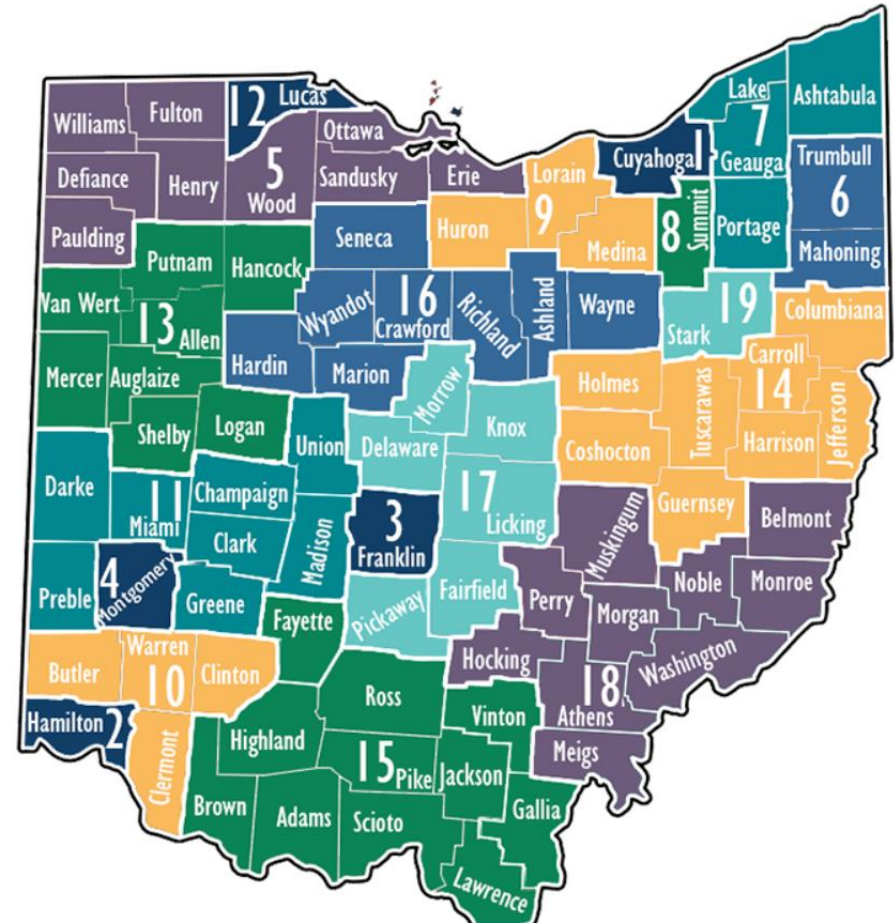
- Goals:
  - Counter the loss of ecological function and biological diversity
  - Targeted protection and restoration of high-quality streams/wetlands
- Administered by Ohio EPA
- ~\$15M available annually
- Multi-step process
- Acquisition and restoration





# Clean Ohio Fund

- Administered by Ohio Public Works through NRAC Councils
- Open space acquisition and riparian enhancement/protection
- Requires biological assessments, appraisals
- Match requirement 25%



# Great Lakes Restoration Initiative

- Focus Area 1: Toxic Substances and Areas of Concern
- Focus Area 2: Invasive Species
- Focus Area 3: Nonpoint Source Pollution Impacts on Nearshore Health
- Focus Area 4: Habitat and Species
- Focus Area 5: Foundations for Future Actions





# Great Lakes Restoration Initiative

- Funding Agencies
  - USEPA
  - USFWS
  - USFS
  - NOAA
  - GLC



# Ohio Lake Erie Commission

- Lake Erie Protection Fund
  - Semi-annual RFP
  - \$50,000 grants
- Coastal Resiliency
  - 2022 – funded 7 grants
    - Planning
    - Restoration
    - Revetment Improvements
  - 2024 – potential next cycle





# Ohio Coastal Management Grants

- Eligible Activities
  - Feasibility studies and engineering reports for enhancing coastal resources
  - Protection/enhancement of wetlands, dunes, and other coastal habitat
  - Habitat enhancement using dredge material
  - Increased public access to Lake Erie and its tributaries
  - Protection of historical and cultural coastal resources
  - Redevelopment of deteriorating or underutilized waterfronts and ports
- Annual RFP – September/October Pre-proposal
- \$50K-\$150K
- 1:1 Match



# National Fish and Wildlife Foundation

- National Coastal Resilience Fund



- Sustain Our Great Lakes
- Five Star Urban Waters
- America the Beautiful Challenge



# Contact Information

**Deanna Bobak**

Telephone: 419-724-5281

Email: [dbobak@cecinc.com](mailto:dbobak@cecinc.com)

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