



*Beneficial Reuse of Dredged Material*



*Dredging & Sediment Management  
Permitting, Design, Implementation*



*Fish Habitat Bulkheads*



*Natural shoreline restoration & protection  
Floodplain & Slope restoration  
Seep and runoff control & mitigation  
Multi-waste legacy brownfield cap & cover*



## SEDIMENTS, COASTAL & BROWNFIELD RESTORATION

Coldwater brings extensive experience planning, permitting, designing, and implementing ecological, functional, and cost-conscious restorations. Whether it is a river, harbor, lake, reservoir, stream, or tidal estuary, we've applied our KSAs to restore legacy brownfields, repair eroded shorelines, protect pipelines & intakes, and build wetlands, marshes, streams, and habitats. We regularly work with State agencies, cities and counties, Responsible Parties, and NGOs delivering quality, innovation, and resiliency.

### Building **WITH** Nature

Whether a Great Lakes Area of Concern contributing source, a Federal navigation channel, a marina, a subsiding wetland or marsh, a regulated contaminated site, or a headcutting stream, our work epitomizes working with nature, incorporating habitat and resource reuse.

### OUR APPROACH BRINGS

- **Decreased long-term costs**
- **Increased Agency approvals**
- **Supportive communities**

### SMALL YET MIGHTY & TALENTED

We're a certified Women-owned Small Business with uniquely-skilled staff with proven track-records. Headquartered in Ohio with regionally-positioned staff, we're responsive to project sites inland and coastal. Safety and quality drive our guiding principles and actions.

### WE'RE NOT RUN-OF-THE-MILL

We embody innovation. We've implemented several first-of-its-kind projects. Our people are active in professional associations, research, and working groups.



*GeoPool—Innovative Dredged Material Dewatering*

## COMPETENCIES

- Dredging
  - Hydraulic & Mechanical
  - Environmental
- Dredged material mgmt.
  - Upland & Nearshore
  - Slurry Dewatering
- Beneficial Reuse of Dredged Material
  - Marsh, wetland, & stream restoration
  - Thin-Layer Placement
  - Construction Material & Engineered Fill
- Brownfield Restoration—post remediation habitat & residual contaminant isolation / treatment
- Sediment management & capping
- Shoreline stabilization
- Nature-based / living shoreline restoration
- Floodplain restoration
- Fish habitat enhancing / green bulkhead

## TIDBITS

- Restored
  - **500** brownfield acres
  - **10** shoreline miles
  - **160** wetland acres
  - **40** stream miles
- Implemented
  - **\$45** million grant funds





**REGULATORY CONFIDENCE**

**Clean Water Act**

- Sections 404/401 USACE & State Water Quality
- Section 402 NPDES (State)

**Rivers & Harbors Act**

- Sections 10 & 14 (USACE)

**33 USC 408 (USACE)**

**Endangered Species Act**

- Sections 7 & 10 (USFWS)

**National Environmental Policy Act (NEPA)**

**Beneficial Use**

- Ohio EPA Solid Waste
- US Fish & Wildlife Service

**Hazardous & Solid Waste**

- CERCLA, RCRA, SPCC

**Magnuson-Stevens**

- Fisheries management (NOAA)

**Marine Mammal Protection Act (NOAA Fisheries)**

**Marine Protection, Research and Sanctuaries Act**

**Historic Preservation Act**

**Natural Gas Act (FERC)**

- Pipeline, Stations & Terminals

**LEARN MORE**

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SUSTAINABLE SOLUTIONS FOR YOUR WATER RESOURCES



**Ohio Department of Natural Resources-funded wetland and heron rookery restoration**



**BROWNFIELDS RESTORED—FLOODPLAIN, WETLAND, & HABITAT**



**USEPA Great Lakes Restoration Initiative-funded floodplain & habitat restoration**



**COMMON ROLE**

- On-call Consultant & Expert
- Design-Build prime/sub
- Design-Bid-Build prime/sub
- Owner's Agent / Rep

**CLIENT MIX**

- Public & Quasi-Public
  - Cities, Counties, State Agencies
  - NGOs, non-profits
- Private
  - PRP groups
  - Architect & Engineering firms
  - Construction firms
  - Fortune 1000 firms

**GRANT PERFORMANCE**

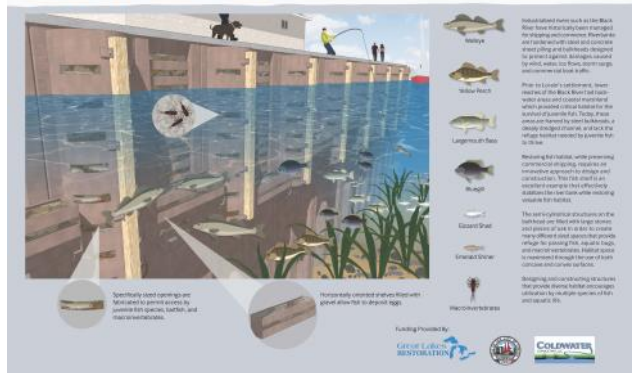
- USEPA Great Lakes Restoration Initiative
- USEPA Great Lakes Legacy Act
- NOAA Fisheries
- FEMA Pre-Disaster Mitigation
- Healthy Lake Erie
- Ohio Dept of Natural Resources, Coastal Management
- Ohio Dept of Natural Resources, Wetland Restoration
- Ohio Environmental Protection Agency, 319/SWIF/WPCLF/SEP
- Water Resources Restoration Sponsorship Program

**CREDENTIALS**

- Staff: PE, CEP, PWS, CERP, CPESC, CESSWI, EI
- Women-owned Small Business

**WATERFRONT-INFRASTRUCTURE IMPROVED**

**BLACK RIVER FISH HABITAT SHELVES**



**PROJECT & STAFF EXPERIENCE**

- Black River Dredged Material Reuse Facility
- Black River Reclamation Site Restoration
- Lorain Boat Harbor Bulkhead Restoration
- Tennessee River Shoreline Stabilization
- Great Lakes Areas of Concern
- USACE Maintenance Dredging
- USACE Beneficial Reuse of Dredged Material in Stream Restoration
- River Remediation & Restoration Alternatives
- Wave attenuating & fish habitat in-water structures
- Dredging for LNG—including Beneficial Reuse of Dredged Material as Construction Material and for Marsh Restoration / Thin-layer Placement
- Drinking Water Reservoir dredging

**ANCHORED IN SOUND SCIENCE & ENGINEERING**

- Sampling & Analysis
- Bench Testing
- Pilot Studies
- Monitoring & Adaptive Mgmt

