

# CAPABILITY STATEMENT

At **RiverRestoration**, our team of river engineers and watershed scientists are passionate stewards of the river. We incorporate 18 years of implementing successful projects, elevating ideas into innovations, and enhancing the social, economic, and ecologic values carried by rivers.

*We are committed to connecting and transforming rivers, and the communities they flow through.*

## VALUE BEYOND TECHNICAL EXCELLENCE

**Partnering for Success:** We partner with clients to bring their vision to reality in a real and tangible way. We establish a strategic vision, coordinate with regulatory agencies and stakeholder groups, develop fundraising strategies, and assist with permit and grant applications to create multi-faceted partnerships. Our focus is on sustainable benefits and long term natural functions that can serve as a legacy for future generations to cherish.

**Connecting River Systems:** Our whole system approach focuses on connecting aquatic and riparian ecosystems, regenerating natural biodiversity, and building ecological resilience. Building biodiversity is key in ecological resilience; enabling natural systems to respond to disturbances by resisting damage and facilitating quick recovery. Full functioning ecosystems allow for fish and wildlife to thrive and human communities to benefit from the natural capital. Connecting the human element results in a tangible economic impact and the generation of a stewardship ethic.

**Innovative Design:** We solve dynamic river issues through our innovative design and engineering process and the application of state-of-the-art technology. Our design process includes detailed data collection, technical analytics, and integration of multi-dimensional hydraulic models. Our river engineering is flood and drought proven, technically sound, environmentally balanced and tailored to each site's unique and specific needs.

**Transforming Communities:** We enhance rivers to support place-based community development and revitalization by uncovering a site's unrealized potential and unique attributes. Riverfronts in need of revitalization and new thinking are nearly ubiquitous in our urban cores. Our services help communities expand their recreation opportunities, environmental health, social equity, economic vitality, public safety, cultural identity, and river stewardship.

## CORE COMPETENCIES

### River System Analysis

River Stability Analyses  
Fluvial Geomorphic Evaluation  
Sediment and Erosion Analyses  
Instream Flow Analyses  
Channel Maintenance Flow Analyses  
Reservoir Capacity Analyses  
Bridge Scour Analyses  
Floodplain Analyses  
Recreational Water Rights  
Expert Witness Testimony

### Hydraulic Modeling

Computational Fluid Dynamics  
Sediment Transport Modeling  
Morphodynamic Modeling  
Aquatic Habitat Suitability Modeling  
Recreation Hydraulic Modeling  
Fish Passage/Barrier Evaluation

### Natural Channel Engineering/Design

Dam Removal Design  
Sediment and Erosion Control  
Environmentally Sensitive Diversions  
Aquatic Habitat Design  
Whitewater Park Design  
Boat Passage Design  
Aquatic Organism Passage Design  
Aquatic Invasive Species Barrier Design  
Bank Stabilization Design  
Boat Ramp Design

### Hydrographic Survey

Bathymetric Survey  
Hydrographic Survey  
Sediment Sampling

### Ecological Services

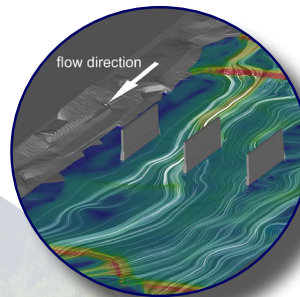
Riparian Habitat Assessment  
Wetland Delineation  
Identification of Degradations  
Non-point Source Pollution Reduction  
Habitat Function Evaluation  
Native Riparian Restoration Plans  
Soil and Planting Specifications

### Project Planning & Management

Recreation Use Evaluation  
Community Planning  
Assistance with Grants and Fundraising  
On-site Construction Oversight  
Construction Stakeout Survey  
Operation & Maintenance Planning

### Partner Competencies

Reservoir Operations  
Geotechnical Investigation  
RiverWare Modeling  
Heavy Civil Engineering



## COMPANY INFO



### RIVERRESTORATION.ORG, LLC

PO BOX 248  
Carbondale, CO 81623  
www.riverrestoration.org

### OFFICE LOCATIONS:

Headquarters: 818 Industry Pl.,  
Carbondale, CO  
Utah Branch: 1234 South 900 East,  
Ste 200, Salt Lake City, UT

### BUSINESS TYPE:

Certified SBA

### SAM UNIQUE ENTITY ID:

LG7NG4GT74K6

### CAGE CODE:

61F81

### NAICS:

**541330:** Engineering Services  
**541620:** Environmental Consulting  
**541360:** Geophysical Surveying  
**541370:** Surveying and Mapping  
**541490:** Other Specialized Design Services

### TECHNOLOGY | SOFTWARE

- 1D, 2D & 3D hydraulic modeling
- Auto Cad Civil 3D
- Arc GIS

### SURVEY EQUIPMENT DETAILS

- Survey-grade GNSS & total station equipment
- Motorized & non-motorized shallow draft watercraft
- Boat mounted GNSS integrated echo sounders



### Permitting Process

Permit Coordination  
CWA 401/404  
FEMA Map Revisions  
Alternatives Analysis  
Permit Application Preparation

## CLIENT RELATIONSHIPS

### MAIN MARKET SECTORS:

- Federal Government
- State and Local Governments
- River Advocacy Groups

### FEDERAL GOVERNMENT AGENCIES:

- US Bureau of Reclamation
- US Army Corps of Engineers
- Bureau of Land Management
- US Forest Service
- National Park Service

### STATE & LOCAL GOVERNMENTS:

- Utah Department of Natural Resources
- New York Power Authority
- Genesee County Parks & Recreation, MI
- Ogden City, UT
- Helper City, UT
- West Jordan City, UT
- Pitkin County, CO
- Town of Vail, CO
- City of Aspen, CO
- City of Ames, IA
- City of Menasha, WI
- Others

### RIVER ADVOCACY GROUPS:

- Trout Unlimited
- Grand Rapids Whitewater
- Jordan River Commission
- Middle Colorado Watershed Council
- Others

## PAST PERFORMANCE HIGHLIGHTS

**Partnering for Success Highlight:** The Big Bend project is a collaborative restoration and recreation project in the City of West Jordan, UT. This project combines outdoor recreational opportunities with a restored wildlife island on the Jordan River. Partners and collaborators on the Big Bend Project include the City, the Utah Reclamation Mitigation and Conservation Commission, the U.S. Fish & Wildlife Service, the National Park Service, Forestry, Fire and State Lands, the Utah Departments of Natural Resources and Environmental Quality, and other public and private entities. RiverRestoration helped secure \$5M of funding from a wide variety of agencies and organizations.

**Connecting River Systems Highlight:** The Helper City River Revitalization Project is a six-phase environmental infrastructure project on the Price River. The project includes connection of 41 acres of floodplain habitat, removal of 8 fish passage barriers, and connecting the community to the river with four river parks and improved 3 miles of pedestrian pathways.

**Innovative Design Highlight:** The success of our innovative Adjustable Hydraulic Structures in Bend, OR and Vail, CO prepared us for a nationwide competitive search by the Michigan Governor's office for technology to stop aquatic invasive species migration. Our winning idea applies patented technology, is being designed in Michigan, Illinois and Wisconsin, and is a solution for problems worldwide.

**Transforming Communities Highlight:** RiverRestoration led the Ogden River Restoration Project to restore and regenerate the river and transform the community with vibrant greenspaces and reconnected urban landscapes. The community has enjoyed real transformation and economic revitalization symbolized by the Ogden River Restoration.



## REFERRALS

"On behalf of Helper City, Utah, I am pleased to recommend RiverRestoration to revitalize your local waterway. Helper City has worked with RiverRestoration for over five years now to design, permit and oversee implementation of the multi-phased, comprehensive river restoration on the Price River. In addition to the design and implementation of the in-channel improvements, RiverRestoration guided the City in tackling a number of complex planning issues, including extensive fundraising through local, regional, and national funding opportunities and obtaining approvals and permits from the Utah Department of Natural Resources and the US Army Corps of Engineers. Helper City already recognizes the economic and social growth from the project." - **Lenise Peterman, Helper City Mayor**

"On behalf of Trout Unlimited, I write in support of RiverRestoration... I have worked directly with RiverRestoration on a number of restoration projects throughout the Weber River Basin...RiverRestoration staff have provided unparalleled expertise on river processes and have a thorough understanding of rivers and design. They have provided professional consultation and knowledgeable construction oversight during project execution, with an understanding of project costs and sequencing. All project deadlines have been met, and project communication and consultation has been excellent. Most importantly, RiverRestoration brings a strong river ethic to their restoration designs, which is above and beyond that of a standard civil engineering consultant firm. - **Paul Burnett, Utah Water and Habitat Program Lead, Trout Unlimited**

"RiverRestoration was the subconsultant to OTAK Engineering for the design of the Bend Whitewater Park. RiverRestoration performed all work as required by the contract, often going above and beyond to complete the project...RiverRestoration was also extremely helpful in the public outreach and stakeholder group design efforts. Being well versed in how the sport was perceived helped create a seamless effort between the design engineer and local user groups. I would not hesitate to use RiverRestoration again on any future projects." - **Brian Hudspeth, Development Manager, Bend Park and Recreation District**

## AWARDS

- National "Facility or Park Design Award" by the National Recreation and Park Association | Colorado Dam Paddle Trail Improvements
- Award of Merit for Best Water/ Environment Project from the Engineering News-Record 2016 Best Projects | Colorado Dam Paddle Trail Improvements
- Utah's 46th Blue Ribbon fishery | Ogden River Restoration
- American Fisheries Society Utah Chapter Conservationist of the Year Award to Ogden City 2011 | Ogden River Restoration
- Utah DEQ Water Quality Board Sudweeks Award 2012 | Ogden River Restoration