

# Wetland & Stream Mitigation Services



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GES stream and wetland designers, biologists, environmental scientists, and engineers provide expert stream and wetland mitigation services from concept through final acceptance. GES provides mitigation services for both mitigation banks and for Permittee-Responsible Mitigation (PRM) projects.

Our professionals have successfully completed wetland, forest, and wildlife mitigation projects in the states of California, Delaware, Maryland, Massachusetts, New York, Oklahoma, Pennsylvania, Texas, and West Virginia.

## Areas of Expertise



**Site Selection and Evaluation.** GES assists clients in the assessment of site conditions and project requirements to identify favorable target properties for mitigation bank development. Our feasibility analysis begins at the desktop level, using existing maps and property information, followed by detailed technical and financial evaluations. This upfront analysis enables project owners to maximize their stream and/or wetland credits in a target service area with manageable property and bank development costs.



**Regulatory Consulting.** GES navigates clients through the regulatory process, including the development of the Prospectus, draft Public Notice, and Mitigation Banking Instrument (or Mitigation Plan) for the project. For PRM projects, GES obtains the Section 404 permit.



**Technical Field Solutions.** GES biologists and environmental scientists perform jurisdictional delineations, conditional/functional assessments, and other related environmental assessments, as needed.



**Construction Oversight.** Highly trained and qualified GES professionals provide technical oversight and monitoring to ensure that project construction is performed in accordance with the mitigation design.



**Performance Monitoring and Reporting.** GES performs monitoring and performance reporting to demonstrate accomplishment of performance for constructed mitigation projects.



**Credit Sales and Reporting.** GES assists mitigation banks by providing quotes to potential clients, tracking sales and quotes, and maintaining the RIBITS database.







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## 01 Rockin' K on Chambers Creek Wetland and Stream Mitigation Bank Design

GES managed the creation of a wetland and stream mitigation bank within a 900-acre former cattle ranch. The project scope included design and permitting of stream/wetland restoration as well as development of the mitigation banking instrument (MBI) following a "waters of the US" delineation and conditional assessment of aquatic resources. GES facilitated regulatory approvals with multiple stakeholders, provided construction oversight, and is currently monitoring and reporting performance for the bank.



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## 02 Wetland Creation Projects

GES' Richard Pais directed the development of two separate wetland projects encompassing more than 5 acres in Pennsylvania. The creation of the new wetlands were intended to promote habitat diversity, replacing the loss of high-quality emergent (PEM) and scrub-shrub (PSS) wetland systems. Both wetlands were released from their bond requirements within three years.

## 03 Design of Stormwater Treatment Wetlands

GES successfully completed the design, permitting, and construction of a multiple-use stream and wetland complex on the University of Houston's Clear Lake campus. The complex was designed to reduce pollutant concentrations from stormwater runoff, create a field research center for environmental science students, and provide open space to enhance wildlife habitat and passive recreation opportunities.



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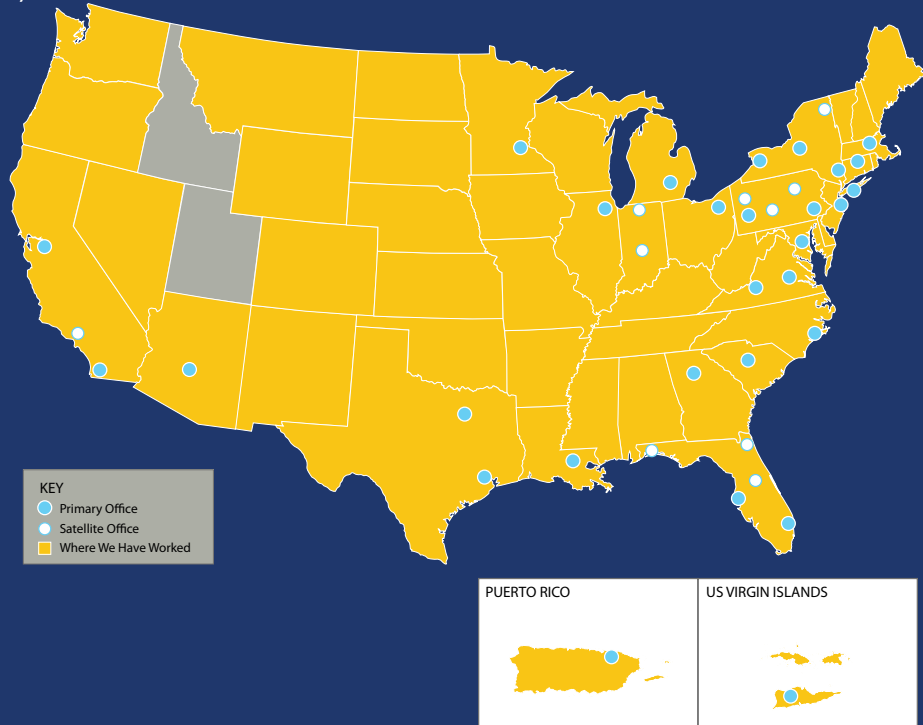
## 04 Beacon Place Mitigation Bank

GES prepared the MBI, mitigation plan, and detailed design for a privately-owned mitigation bank, intended to provide stream and wetland credits for public purchase. The project includes the restoration of more than 28,000 lf of stream and 235 acres of forested wetlands. Approval of the final MBI is expected in spring 2019, with construction scheduled to begin immediately following approval.

We are Groundwater & Environmental Services, Inc.,  
better known as GES.

We are scientists, engineers, consultants,  
and hands-on technical specialists.  
More important, we are innovators,  
problem solvers, and trusted partners  
to the organizations that count on  
us to tackle their most pressing  
environmental challenges.

GES provides integrated  
environmental assessment,  
remediation, engineering, permitting,  
and compliance solutions with your  
business goals in mind. That's our  
approach, and it's been proven  
effective over our 30+ years as  
a client-driven environmental  
consultant and contractor.



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