

Data Center Environmental Services

Long-Term, Sustainable Solutions for Data Centers

Whether you are just starting a data center development project or operating an enterprise or co-location facility, we've got you covered. For over 40 years, GES has developed innovative solutions for our clients' complex environmental needs. Our in-house engineers, hydrogeologists, environmental scientists, regulatory and permitting experts, and project managers are ready to apply their talents and experience to help you through the environmental requirements that may be needed to complete your data center storage and computing needs. We can provide solutions to help you realize greenfield and brownfield projects in urban, suburban, and rural settings that reduce your time to market, avoid regulatory permitting pitfalls that can derail and delay your project completion, and maintain regulatory compliance.

GES currently supports data center development, construction, and operation, with the following services and technical expertise:

- Permitting and compliance to support development, construction, and operations – permit register, permitting and reporting for air quality, stormwater and wastewater discharges, local permitting/approvals, SPCC Plans/FRPs, waste management, and regulatory engagement support
- Due diligence – Phase I/II Environmental Site Assessments (ESAs)
- Natural Resource studies/permitting – including wetlands, endangered species, USACE & NEPA approvals & strategy, tree surveys, cultural resources screening, and soils analysis
- Site development – site access, zoning, stormwater management, erosion and sedimentation control design and monitoring
- Vapor intrusion - assessment and design, construction, and operation of VI mitigation systems
- Water quality – evaluation, testing, monitoring, and treatment of identified sources
- Water resources – permitting, supply, treatment, and reuse
- Water supply wells – siting, modeling, construction, development, and testing

Service Capabilities

Air Quality – permitting & reporting
Carbon accountability
Critical issues analysis (CIA)
Cultural resources screening
Environmental inspections and monitoring
Local permitting support
USACE – wetlands permitting and mitigation
NEPA documentation
Phase I/II ESAs
Protected species evaluations
Site remediation/restoration
Spill prevention, control & countermeasure plans
Stormwater planning & permitting
sUAS (drone) services
Wastewater discharge permitting
Water supply well (siting, permitting, and installation)
Wetlands identification, delineation, mitigation, and banking