

Innovative Dam Engineering Solutions

Dam rehabilitation, Loch Raven Dam
Baltimore, Md.



The strength of Gannett Fleming's dam engineering practice is found in our people, experience, and commitment to "amaze our clients with responsiveness and innovation and become their trusted advisor." Our integrated teams of planners, scientists, engineers, and managers work to create cost-effective infrastructure projects that are socially, environmentally, and financially sustainable. Our firm's completed projects include more than 100 new dams, modification of more than 500 existing dams, and safety evaluations of more than 1,000 dams.

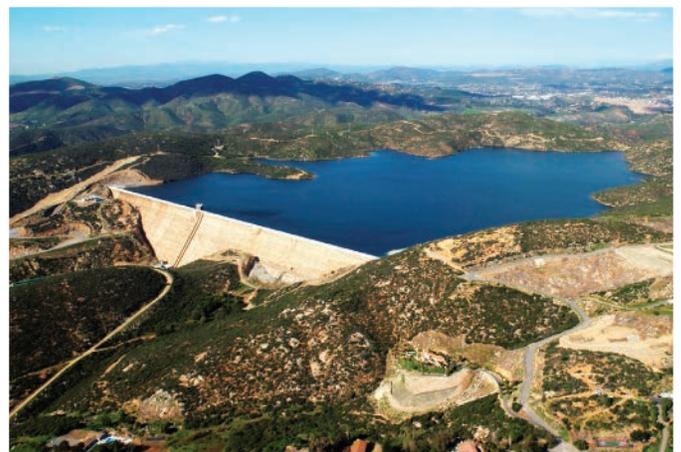
We respond to a wide variety of water resources goals, including watershed management, water supply, hydropower, navigation, flood control, and recreation. During the past decade, we have designed 10 new dams and worked on dam rehabilitation projects involving 50 existing dams. These new dams have been earthfill, roller-compacted concrete (RCC), and inflatable. Rehabilitation projects have included earthfill, rockfill, concrete, masonry, and timber crib dams with construction costs ranging from \$70,000 to \$400 million.

Our firm has experience with a wide range of dam types, including:

- Earthfill
- Rockfill
- RCC gravity
- Inflatable
- Timber crib
- Slab and buttress
- Moveable crest (steel or rubber gate)
- Concrete arch dams.



New RCC/earthfill dam, Hunting Run Dam
Spotsylvania County, Va.



RCC dam, Olivenhain Dam
San Diego County Water Authority, Calif.

In 2010, we completed the design of the rehabilitation of Gilboa Dam, a major water supply for New York City. Our design of fish passage facilities won the 2010 American Council of Engineering Companies of Pennsylvania (ACEC/PA) Diamond Award for Engineering Excellence. Our clients include American Water, the U.S. Army Corps of Engineers (USACE), the Natural Resources Conservation Service, and the U.S. Fish and Wildlife Service.



Dam rehabilitation, Gilboa Dam, New York City DEP



Vertical-slot serpentine fishway at Sunbury inflatable dam, Pennsylvania DCNR



**Levee rehabilitation, Herbert Hoover Dike
USACE, Jacksonville District**

Dam Engineering Services

- Dam design
- Dam inspections, analyses, and studies
- Geologic exploration and testing
- Emergency response planning
- Fish passage design
- Flood insurance studies
- Foundation grouting technology
- Hydrologic and hydraulic modeling
- Levees and flood damage reduction
- Levee safety inspections
- Navigation locks and dams
- Permitting
- Regulatory compliance review and support
- Risk and reliability
- Safe yield studies and water supply
- Safety and security consulting
- Technical management training

800.233.1055

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Gannett Fleming is a global infrastructure firm that provides planning, design, technology, and construction management services for a diverse range of markets and disciplines.



Offices Worldwide



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