



Corporate Profile

SUMMARY

Founded in 1995, GENTERRA Consultants, Inc. offers specialized civil engineering and geotechnical services through a team of professionals with technical and management expertise on many projects and facilities. Specialized services are provided for water and wastewater facilities, dams, reservoirs, levees, site characterizations, site development, and water resources studies.

GENTERRA's technical capabilities are enhanced by the credentials and experience of the firm's professional personnel. GENTERRA's project managers and staff offer innovative solutions to complex engineering and geotechnical issues using the latest technological tools and advanced communications channels. GENTERRA takes pride in the high quality of personal service, responsiveness to the needs of clients, effective coordination with regulatory agencies, and the depth of experience of the firm's technical personnel.



DISCIPLINES AND SERVICES

GENTERRA's professionals and technical staff cover the following disciplines:

- Civil engineering and geotechnical engineering for dams, levees, channels, canals, and other facilities
- Geotechnical engineering for all types of facilities
- Earthquake engineering and seismicity
- Geology and engineering geology
- Hydrology, hydraulics, and water resources
- Hydrogeology and groundwater studies
- Structural engineering for dams and hydraulic structures
- Dam safety risk analyses
- Geoenvironmental technology for mine waste, tailings dams, and impoundments
- Support for environmental studies and permitting
- Expert witness review and testimony



GENTERRA CONSULTANTS, INC.

Specialized services consist of the evaluation, design and construction consultation for the following types of projects:

- ✓ Dams and Reservoirs for Water and Wastewater Storage
- ✓ Levees for Flood Protection
- ✓ Dam Safety and Levee Safety
- ✓ Dam Failure Inundation Studies and Mapping
- ✓ Pipelines, Tunnels, and Culverts
- ✓ Inundation, Drainage and Flood Control Studies
- ✓ Geotechnical Studies and Site Investigations
- ✓ Groundwater Modeling and Analyses
- ✓ Third Party Reviews
- ✓ Earthquake and Seismological Studies
- ✓ Construction Quality Assurance/Quality Control (QA/QC)



RECENT GENTERRA PROJECTS

- **Dam and Reservoir Safety Evaluations** - Engineering evaluations, performance review, and coordination with regulatory agencies for more than 155 dams in the past 22 years.
- **Levee inspections and rehabilitation design in Northern and Southern California** - Periodic inspections of many miles of levees for the U.S. Army Corps of Engineers, Sacramento District. Emergency evaluation and design of repairs to levees for the Ventura County Watershed Protection District.
- **Final design of Eagle Canyon Dam in Palm Springs, California** - Complete geotechnical site investigation, stability and seepage analyses, structural analyses, hydrology, hydraulics, design plans, specifications and cost estimate. Throughout the investigation and design GENTERRA provided coordination with the State Division of Safety of Dams.
- **Reservoir Lining, San Joaquin Reservoir** - Civil and geotechnical engineering design and construction for the San Joaquin Reservoir that included a geosynthetic reservoir liner.
- **Dam Enlargement, El Toro Dam and Reservoir** - Civil and geotechnical engineering design and construction for the El Toro Dam and Reservoir including raising of the existing dam, installation of instrumentation, development of a reservoir drawdown program, and design of an 1800-foot-long groundwater interceptor trench.
- **Lake Elsinore Advanced Pumped Storage Project** - GENTERRA provided conceptual-level geotechnical, hydrologic, and inundation studies for this proposed 500-MW pumped storage project in Riverside County. The study included the evaluation of two candidate dams and three candidate powerhouses.



CLIENTS

- City/County/State/Federal Governments
- Water, Flood Control, and Irrigation Districts
- Utilities
- U.S. Army Corps of Engineers
- Owners of Dams, Reservoirs, and Water Facilities
- Engineering/Planning Firms
- Legal Firms



IRVINE, SACRAMENTO, SAN DIEGO, CALIFORNIA ♦ AUSTIN, TEXAS ♦ HARRISBURG, PENNSYLVANIA

Corporate Headquarters: 15375 Barranca Parkway • Building L • Irvine, California 92618 • (949) 753-8766 • Fax (949) 753-8887

Sacramento Office: 180 Promenade Circle • Suite 300 • Sacramento, California 95834 • (916) 634-7730

Toll-Free: (888) 423-0111 • E-Mail: gcinfo@genterra.com

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WWW.GENTERRA.COM