

Firm Introduction



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PROVEN EXPERTISE

- > World-Class Engineering with Personalized Service
- > Focus on Dam Engineering
- > Long-Term Client Relationships and Consistent Personnel

RJH CONSULTANTS, INC.

Founded with a clear focus: Dam engineering is our specialty, not just another service line within a large corporate structure. More than 90 percent of the hundreds of projects we've delivered have been dam or reservoir projects.

Founded with a unique purpose: To provide our clients with the technical expertise and project delivery typically associated with large multi-national corporations, but delivered with the personalized, pleasant, and responsive service of a small, local business.

Founded for the long-term: Over 75 percent of RJH projects have been awarded from previous clients. We strive to earn your trust and build long-term relationships. This is unparalleled and speaks to each professional's commitment to our clients and core values. It also provides you with consistency throughout your project and beyond.

FOR MORE INFORMATION

info@rjh-consultants.com

WWW.RJH-CONSULTANTS.COM



Dams and Reservoirs



PROVEN EXPERTISE

- > Inspection
- > Planning
- > Siting
- > Evaluation
- > Risk Assessment
- > Concepts
- > Design
- > Construction
- > Cost Estimating
- > Forensics
- > Rehabilitation
- > Modifications
- > Repairs

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RJH Consultants, Inc. is unique in that dam engineering is our specialty. It comprises over 90 percent of our total work and is not just another service line within a larger corporate structure. This focused identity provides highly experienced professionals, cost-effective service, and streamlined implementation for your dam projects. We routinely lead multi-disciplinary teams that deliver solutions to complex new or dam rehabilitation challenges and we have earned a strong reputation for effectively delivering all types of dam and reservoir projects. The majority of our projects have been delivered to water, irrigation, or flood control districts; hydropower producers; or municipal, state, and federal agencies.

Currently, we consist of nearly 40 professionals with experience in all major engineering disciplines related to dams including geologic, geotechnical, hydrologic, hydraulic, structural, civil design, cost estimating, CADD, and construction engineering.

Since 2005, RJH has delivered:

- > More than 180 dam and reservoir projects.
- > The design and construction of the largest non-federal new dam built in Colorado in the past 30 years.
- > Service as a technical expert to the U.S. Department of Justice for a \$50 million dispute regarding seepage at a USACE dam.
- > Rehabilitation design and construction for various low-head (less than 75 feet), high hazard dams in rural and urban settings.
- > Award winning design projects with multiple awards from ENR and APWA.

Geologic and Geotechnical Services



PROVEN EXPERTISE

- > Geologic Mapping
- > Data Compilation and Review
- > Soil Drilling
- > Rock Coring
- > Water Pressure Testing
- > Soil and Rock Material Properties
- > Geotechnical Analyses
- > Geotechnical Instrumentation
- > Slurry Trench Design
- > Finite Element Modeling
- > Geotechnical Design
- > Seepage Expertise
- > Groundwater Modeling

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RJH is highly experienced in implementing most types of geologic and geotechnical investigations to support irrigation and water storage projects. We have market leading experience delivering every phase of geologic and geotechnical services on small to large water projects.

Because first and foremost RJH is a civil design firm for water storage projects, our geological and geotechnical engineers understand how to tailor geotechnical exploration programs and select the analyses methods needed to evaluate and design dams. We address the geotechnical issues that are important to support development of water storage and conveyance facilities and that are critical to design and risk mitigation.

We execute our geologic and geotechnical data collection or analyses using procedures and practices that are consistent with Natural Resources Conservation Service's National Engineering Handbook, U.S. Army Corps of Engineers and U.S. Bureau of Reclamation best practices, and other commonly relied upon standards (i.e., ASTM, etc.). This ensures that the work performed is highly reliable and consistent with the state-of-the-practice.

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Hydrologic and Hydraulic Services



PROVEN EXPERTISE

- > Historic Storm Evaluations
- > Reservoir Routing Analysis
- > Dam and Reservoir Hydrology Studies
- > Outlet works and Spillway evaluation and design
- > Hydro-mechanical Services
- > Dam Break Analyses
- > Dam Hazard Classification
- > Reservoir Feasibility
- > EAPs
- > Hydraulic Diversions and Energy Dissipation Structures
- > Floodplain Management and Drainage Studies
- > GIS

RJH performs a variety of hydrologic and hydraulic (H&H) engineering services for existing and new water facilities. Our H&H projects range from small hydraulic structure designs to large overtopping dams or projects with outlet works, pump stations, diversions, spillways, and other appurtenant facilities.

The majority of our H&H professionals have advanced degrees and all have experience in technical aspects required to design and construct dams, reservoirs, and their hydraulic appurtenances. RJH has performed planning, evaluation, modeling, design, and construction management services for numerous H&H projects. Some of these projects include complex inflow design studies; reservoir system models; design of labyrinth or other highly efficient spillways; high-head outlet works evaluations (i.e., flow turbulence, cavitation, and air venting); advanced river channel and floodplain modeling; pump stations; and design, repair, or evaluation of most other facilities associated with untreated water storage, conveyance, and management.

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