



TECHNICAL SERVICES



Project List

- Lake Maloya Rehabilitation Design, Springer, NM
- Springer Dams Rehabilitation Design, Springer, NM
- Dawson Dam Feasibility Study Dawson, NM
- Piney Point Treatment Ponds Ruskin, FL
- Miners Lake Dam Rehabilitation Design Wellington, CO
- Spring Water Development Crystal Springs, FL
- Stratcor Dam Raise Design Hot Springs, AR
- York Canyon Dam Raise Design Raton, NM
- Talache Tailings Dam Atlanta, ID
- Church Rock Tailings Dam Church Rock, NM

Clients

- Raton Water Works
- Town of Springer, NM
- Dawson Ranch Company
- Florida DEP
- North Poudre Irrigation Company
- UMETCO Minerals Corporation
- Nestle Waters, NA
- Pittsburgh and Midway Coal Co.
- Atlanta Gold Company

We provide engineering services for design of water storage and conveyance systems to the public and private sectors.

WATER MANAGEMENT

Engineering Analytics, Inc. (EA) has broad-based technical expertise to solve a variety of water management problems. Our clients operate and manage:

- dams,
- impoundments,
- water conveyance systems,
- industrial and mining operations,
- water treatment, and
- water-supply systems.

We assist our clients in obtaining:

- regulatory permits,
- diagnosis of problematic symptoms,
- engineering design,
- system optimization,
- new water sources,
- water treatment, and
- construction management.

Engineering Analytics engineers and scientists are experts in:

- civil engineering,
- geotechnical engineering,
- hydraulic engineering,
- surface-water and groundwater hydrology,
- process engineering, and
- geochemical analysis.

Dams and Impoundments

Engineering Analytics performs feasibility analyses and final designs for new dams and impoundments and structures requiring modifications to increase capacity, improve performance, or ensure safety. We work with our clients to develop designs that meet the project's constraints while achieving the highest performance possible. Our clients rely on us for conceptualization, engineering design, cost estimation, permitting, and construction management. We have extensive experience with:

- spillways,
- conveyance channels,
- embankments,
- crest raises,
- rehabilitation, and
- natural, geosynthetic, and engineered liner systems.

Water Conveyance

Managing water flow can be a critical component for many projects. EA helps its clients manage and control flows in open channels and pipelines. Through hydraulic analyses, our engineers design and construct conveyance systems that contain flood-stage flows, control erosion, manage channel losses, and maximize system efficiencies. Our channel designs integrate natural drainages with unlined, grass-lined, rock-lined, and engineered-fill lined channels.



TECHNICAL SERVICES

WATER MANAGEMENT

Industrial and Mining Operations

Industrial and mining clients use our expertise to:

- obtain permits for water discharge and water supply,
- ensure slope stability for retaining walls, excavations, and open pits,
- manage process water and waste streams,
- build tailings dams and waste impoundments,
- develop surface-water and groundwater supplies, and
- incorporate water treatment for supply needs and discharge.

These applications require that Engineering Analytics, Inc. (EA) have a detailed understanding of regulatory requirements, geology, soils, dewatering principles and design, hydraulics, geochemistry, water quality, and our client's operations. Industrial and mining clients benefit from EA's broad range of technical specialists and our focus on providing exceptional, personalized service.

Water Treatment

Our clients need water-treatment facilities for managing their process water and waste streams. We assist our clients in navigating the regulatory requirements for obtaining water supplies and for discharging to waters of the State. EA geochemical and process engineers are highly skilled at diagnosing symptoms and finding the root cause of problems in existing water-treatment facilities that are degrading performance and increasing operational costs.

Water Supply

Engineering Analytics staff of scientists and engineers assists clients in obtaining and managing sustainable water supplies. In some cases, we integrate our water-treatment and process engineering expertise to overcome poor source-water quality problems. EA uses the following expertise to provide clients with turn-key solutions when developing a water supply including:

- groundwater hydrology,
- surface-water hydraulics,
- geochemistry,
- water rights and permitting, and
- civil engineering.

Construction Management

Once solutions to our client's water management issues are identified, designed, and permitted, EA will provide construction management services. EA prepares engineering design reports, instrumentation plans, bid specifications, and engineering cost estimates that are required for State Engineers to provide construction permits. Ensuring that qualified and cost-effective contractors are selected, that proper construction materials are used, and that project designs are accurately implemented can make the difference between a successful or a failed project. EA can oversee the implementation and construction of water-management projects to ensure their performance and quality.



Geotechnical &
Geoenvironmental
Engineering Consultants

