



**PETER R. FOSTER, P.E.**  
SENIOR PROJECT ENGINEER

**CURRENT**

Senior Project Engineer on design and construction of water and wastewater facilities, storm drainage facilities and water supply feasibility studies, water rights analysis for municipalities, special districts, and private industry.

Environmental permitting including Aquifer Protection Permits, NPDES Permits, permits for construction of water and wastewater facilities, air permits, and air inventories.

**EDUCATION**

M.S., Civil Engineering, 1994  
Specializing in Water Resources Planning and Management  
Colorado State University

B.A., Economics, 1988  
The Colorado College, Colorado Springs

**REGISTRATION**

Registered Professional Engineer – Colorado License # 36517  
Registered Professional Engineer – Arizona License # 35148  
Registered Professional Engineer – New Mexico License # 16745

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**REPRESENTATIVE PROJECTS**

**Town of Bayfield.** Project Manager assisting the Town of Bayfield with developing long-term water supply needs and negotiations with the Pine River Irrigation District to supplement the Town's current and future water supply. Developed a water rights inventory and water demand forecast for the Town's Water system. Developed an exploratory water well drilling program. Provided oversight of the drilling and aquifer pumping test and calculated the firm yield for the Town's proposed production well.

**Forest Lakes Metropolitan District.** Project Manager for the development of a water rights inventory for the Metropolitan District. Reviewed the District's water rights including the augmentation plan and made recommendations to enhance and protect future water supplies.

**Hendricks Conservation Properties.** Project Engineer for Hendricks Conservation Properties. Includes inventorying water rights and water rights strategies to improve and enhance the management of water between the eight ranches that comprise the Hendricks Conservation Properties.

**Florida Water Conservancy District, Lemon Reservoir.** Project Manager for the preparation of a plan to mitigate and minimize the post-fire stormwater runoff in the Lemon Reservoir Area from the Missionary Ridge Fire. Submitted applications and securing over \$300,000 of project funding from 319B and SEP grants from the Colorado Department of Health and Environment. Designed a water quality and sediment transport monitoring program. Prepared reports for funding entities regarding project expenditures and progress towards meeting project goals and objectives.

**Pine River Irrigation District, Jack Creek.** Project Manager for a peer review of the U.S. Bureau of Reclamation design for the conveyance of water through the Jack Creek Drainage after post-fire stormwater runoff associated with the Missionary Ridge Fire.

**Unified Permit Rollout.** Toured Mohave County with the ADEQ Water Quality Division Director and the Assistant Water Quality Division Director delivering presentations on changes in the Aquifer Protection and Reuse Permitting Rules. Conducted presentations for Mohave County Cities, Board of Realtors, Contractors, and Engineers on the new rules under the unified permit program.

**Mohave County Economic Development Authority.** Assisted Griffith Energy, Norcraft Industries, Big Sandy Project, and Enviroc with water, wastewater, solid waste, and air permitting issues.

**Bullhead City.** Assisted Bullhead City in preparing program and obtaining funds from the Arizona Housing Authority for emergency financial relief for residents of Sewer Improvement District #1. Provided technical assistance to Bullhead City staff on compliance issues relating to the "Bullhead City Consent Order." Assisted Bullhead City with 208 planning issues. Spearheaded the implementation of a streamlined approval process by ADEQ for future Bullhead City wastewater collection system improvements. Facilitation of talks between the Arizona Department of Water Resources, Bureau of Reclamation, Fort Mojave Indian Tribe, and Bullhead City to discuss exchange of reuse wastewater effluent between entities.

**Lake Havasu City.** Worked with Lake Havasu City, Mohave County and ADEQ to devise an alternative design for onsite system approval with in the Lake Havasu City Wastewater Master Plan Area. The intention of the alternative design was to lower installation costs of individual systems in anticipation of abandoning the systems and connecting to regional sewer collection in the near future. Assisted with public information campaign for the passage of the \$463 million Sewer Bond Election. Assisted Lake Havasu City with drinking water approvals for the "Rainey Well" and manganese removal systems.

**Chloride Domestic Water Improvement District.** Project manager for Chloride DWID alternative source feasibility study. Prepared scope of work and deliverables for the project. Overseeing consulting team's work for cost disbursement and project finalization.

**Colorado City/Hildale.** Assisted the town of Hildale with preparing an emergency discharge permit to avoid failure of wastewater treatment lagoons. Assisted the town of Colorado City in the application for a WIFA loan for closure costs of the wastewater treatment facility.

**Virgin River Domestic Improvement District.** Assisted local citizens group with the formation of a Domestic Wastewater Improvement District. Secured project funding, established partnership between the local group and Dixie Escalante Rural Electric Cooperative.

**Virgin River Alternatives.** Developed alternatives to proposed diversions and storage reservoirs by the Washington County Water Conservancy District for meeting future water demands of Washington County, Utah. Involved: exploring conservation measures; interruptible supply contracts; agricultural water transfers; and estimating costs of alternative water supply development within the Virgin River Basin.

**Colorado River Decision Support Systems.** Assisted in the development of a Gunnison River Water Rights Model for the Colorado Office of the State Engineer and the Colorado Water Conservation Board. Interviewed division engineers, district commissioners, water attorneys, and water users to develop operation background for modeling the river basin. Assisted in the development of reservoir, diversion, and water accounting software. Assisted in verification, validation, and calibration of water resources allocation model.

**Carson River Water Rights Model.** Assisted Kennedy/Jenks Consultants in developing a water rights allocation model for the Carson River. Designed reservoir and canal constructs to provide accurate simulation of hydrological and administrative characteristics.

**Orchard Mesa/Green Mountain Operation Model.** Developed a water rights model for Wright Water Engineers' computers based on previous design of a comprehensive computer model for evaluation of U.S. Bureau of Reclamation's water transfer application in Division No. 5 Water Court. The model is designed to estimate impacts on river flows within the "15 Mile Reach" of the Colorado River given various operating scenarios of inbasin and transbasin diversions and storage projects.

**Clear Creek Drop Structures.** Performed field observations of drop structures in Clear Creek. Assembled construction drawings and initial hydraulic report for use in establishing design standard of care.

**Conquistador Ski Area.** Performed technical evaluations and established water requirements for proposed project near Westcliffe, Colorado. Prepared detailed tables listing diversion requirements and consumptive use depletions to stream system for use by the law firm Holme Roberts & Owen.

**Florida River Flood Study.** Analyzed stream flow data using U.S. Geological Survey published data to determine statistically valid flood discharges. Flood discharges of 50-, 100-, and 500- year return periods were calculated for use in floodplain delineation and permitting.

**Florida River Water Rights Appraisal.** Estimated market value per acre-foot of given water rights within the Florida and Lower Animas rivers.

**City of South Boulder Creek Instream Flow Study.** Developed simulation models and analyzed alternative sources of water for a Colorado Water Conservation Board instream flow right application. Calibrated and maintained staff gages on main Boulder Creek to check for compliance with existing instream flow rights.

**South Adams County Water & Sanitation District.** Compiled and analyzed the City of Thornton's existing and proposed South Platte River exchange supplies for South Adams County Water and Sanitation District.

***Assisted in the Development of:***

The City of Seattle municipal water supply model.

National Marine Fisheries' Snake River study.

Wyoming vs. Nebraska North Platte model.

Colorado River Water Conservation District's Yampa River Basin Alternative Feasibility Study.

Salt River Project's Fort Apache Indian Reservation Small Reservoir study.

Colorado River Severe and Sustained Drought Study.

## OTHER EXPERIENCE

**Community Liaison.** Office of the Director, Arizona Department of Environmental Quality, Mohave County, AZ—Assisted local communities, political subdivisions, industry, and Mohave County with environmental programs. Assisted local industry with compliance of State and Federal environmental rules and statutes. Project manager for the Water Infrastructure Finance Authority (WIFA) on project loans and grant programs.

**Environmental Engineering Specialist.** Northern Regional Office, Arizona Department of Environmental Quality, AZ—Reviewed plans and studies of new and existing drinking water and wastewater facilities for a final "Certificate of Approval to Operate." Inspected Air Quality, Aquifer Protection Permits (APP), and National Pollution Discharge Elimination System (NPDES) permits associated with mines, wastewater treatment plants, and industrial facilities. Inspected safe drinking water facilities for compliance with operational permits, Arizona Revised Statutes and Safe Drinking Water Act.

**Water Resources Engineer and Hydrologist and Water Resources Engineer.** Wright Water Engineers Inc., Denver, CO—Involved in water rights allocation models for the Carson River, Colorado River, Gunnison River, and Virgin River. Evaluation of hydraulic dam structures, development of future water requirements for small municipalities, determination of flood discharges and well permit applications. Consultant on computer applications in hydrology.

**Engineering Technician.** Hydrosphere Resource Consultants Inc., Boulder, CO. Assisted in the development of river basin allocation models. Assisted in reports involving river basin hydrology and water rights applications, exchanges and transfers. Developed municipal water demand model for the City of Boulder.

**Traders Assistant.** Mabon Nugent and Company, New York City, NY—Liaison between Municipal Bonds Trading desk and back office - wrote tickets, kept positions, and helped solve discrepancies between back office and trading desk.

## PROFESSIONAL & HONORARY SOCIETIES AND BOARDS

Southern Ute Indian Tribe / State of Colorado Control Commission: Appointment by Governor Bill Owens by Executive Order

Member American Society of Civil Engineers

Member American Planning Association

Past Member Arizona Rural Infrastructure Committee

Past Member, Arizona Nitrogen Management Stake Holders Group

Past Member, Bullhead City Sewer Finance Committee

Past Member, Colorado River Sewer Coalition

**CERTIFICATIONS**

Safe Drinking Water Certified Operator

California Air Resources Board 200 (CARB) Certification

Method 9 Certification

MSHA Certification

OSHA 40 Hr. Certification

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