



PETER R. FOSTER, P.E.
VICE PRESIDENT

CURRENT

Vice President and Senior Project Engineer. Specializing in water supply feasibility studies, water rights and environmental permitting for municipalities, special districts and industry.

Expert testimony for water court applications, trials, hearings and rulemaking.

Environmental permitting including Groundwater and Surface Water Discharge Permits and permits for construction of water and wastewater treatment facilities.

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

Safe Drinking Water Certified Operator

REGISTRATION

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

REPRESENTATIVE PROJECTS

La Plata County. Engineering consulting for Gold King Mine incident, La Plata County Road and Bridge water rights, and Durango-La Plata County Airport Master Plan. Providing third party independent verification of Gold King Mine spill impacts and mitigation plans. Water rights work includes assistance to La Plata County attorney's office with water rights applications. As subconsultant to Jviation, Inc., prepared analysis of water and wastewater options for airport master planning effort.

Oldcastle SW Group. Engineering consulting for water supply and environmental regulatory services for over twenty-five rock product facilities in Colorado and New Mexico. Includes expert reports for water rights decrees and substitute water supply plans, engineering consulting services on storm water, surface water discharge permitting and regulatory consulting. Due diligence assistance for acquisitions.

BP America Production Company. Environmental consulting and engineering services. SPCC evaluations and planning, produced water spill response, water rights and Substitute Water Supply Plans, water well permitting and reporting for Coal Bed Methane wells, rule development for non-tributary water designation, regulatory assistance with 303(d) listings, and Clean Water Act compliance including Section 404. Regulatory consulting services for North America Gas facilities in Colorado, New Mexico and Wyoming.

Florida Water Conservancy District, Lemon Reservoir. As District Engineer, prepared Water Conservation and Management Plans for the district and selected canal companies. Review construction improvements to the Canal Company's conveyance system. 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 and canal lining projects. Submitted funding applications and secured over \$3,000,000 of funding for district and canal company projects. Environmental reports for Finding of No Significant Impact for contracting with the U.S. Bureau of Reclamation on municipal and industrial water uses and canal lining projects.

City of Ouray. Project Manager for the City of Ouray for long-term water supply and water rights needs. Prepared water rights inventory for the city. Developed and analyzed legal and physical water supply for the city.

Ute Mountain Ute Tribe. Water Engineer for the Ute Mountain Ute Tribe. Includes water rights consulting services to enhance and protect the Tribe's water resources.

Water Rights Services for Major Oil and Gas Operators in the Northern San Juan Basin. Water rights engineering services for Water Rights Augmentation Plans, Water Court Application and Substitute Water Supply Plans to allow water well permitting for over 2,500 Coal Bed Methane wells for major oil and gas operators in the Northern San Juan Basin. Operators include BP America Production Co., Chevron, XTO Energy, Samson Resources, Red Willow Production Company and Conoco Phillips.

Bill Barrett Corp. Engineering consulting services for water supply for proposed drilling program. Assisted in the procurement and development of water for well drilling appraisal program.

Swift Energy. Engineering consulting services for water supply procurement for appraisal well drilling program.

XTO Energy. Provided assistance with Section 404 of the Clean Water Act. Project Manager for water rights and Substitute Water Supply Plans, water well permitting and reporting for Coal Bed Methane wells.

Colorado Petroleum Association: Provided expert testimony before the Colorado Oil and Gas Conservation Commission and regulatory assistance for 303(d) listings and hearings before the Water Quality Control Commission.

London Mine. Due diligence for mine water quality and treatment. Impacts to 303(d) Impaired Waters and a Total Maximum Daily Load program. Regulatory consulting on compliance issues with Colorado Department of Public Health and Environment.

Ridgway/Tri-County. Water supply feasibility study. Project Manager for preparing water rights analysis of a proposed joint Town of Ridgway—Tri-County Water Conservancy District potable water supply system.

La Plata Water Conservancy District. Served as Project Engineer. Developed daily water rights and water supply simulation model for the La Plata River Basin. Included modeling compact deliveries, reservoir operations and minimum streamflows for proposed reservoirs in the La Plata River Basin.

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. Project Manager for the expansion of Forest Lakes Metropolitan District's wastewater treatment facility from 60,000 GPD to 180,000 GPD. Prepared water master plan for the district's drinking water system.

Hendricks Conservation Properties. Project Manager 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. Consulting services for Section 404 of the Clean Water Act for diversion structures and real estate development.

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. Delivered 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.

Energy Fuels. Water supply alternatives assessment for the proposed Piñon Ridge Mill. Provided initial water rights, water supply, wells, and pipeline alternatives analysis.

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

Lake Havasu City. Worked with Lake Havasu City, Mohave County and ADEQ to devise an alternative design for onsite system approval within 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. Oversaw 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. Work involved: exploring conservation measures; interruptible supply contracts; agricultural water transfers; and estimating costs of alternative water supply development within the Virgin River Basin.

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 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, LLP.

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.

DJR Energy. Development of a groundwater model for well pumping and depletions for the Entrada Formation in the San Juan Basin New Mexico. Model was reviewed and results accepted by the New Mexico Office of the State Engineer.

Dalwhinnie Ranch. Project Manager on the drilling, testing and development of groundwater for the Dalwhinnie Ranch. The groundwater wells developed produce over 900 gallons per minute. Oversaw drawdown and recovery tests and submittal to the Colorado State Engineer's Office for approval for operation as a headgate wells.

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Western Sky Investments. Project Manager on the development of groundwater wells for a resort development and proposed golf course. Located, oversaw drilling and testing of three groundwater production wells with water yields of over 500 gallons per minute each. Provided groundwater engineering for obtaining a water rights decree for the wells and associated well fields.

OldCastle Southwest Goup, Inc. Project Manager for numerous groundwater assignments for well permits, water rights, and National Pollution Discharge permitting for over 20 gravel pits located in northern New Mexico and Western Colorado.

ASSISTED IN THE DEVELOPMENT OF:

- The City of Seattle Municipal Water Supply Model.
- National Marine Fisheries' Snake River Study.
- Wyoming vs. Nebraska North Platte River 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 and Field Regulatory Compliance Engineer. Northern Regional Office, Arizona Department of Environmental Quality. Inspected mining facilities and safe drinking water facilities for compliance with operational permits, Arizona Revised Statutes and Safe Drinking Water Act. Reviewed plans and studies of new and existing drinking water and wastewater facilities for a final Certificate of Approval to Operate. Inspected Air Quality permits, Aquifer Protection Permits (APPs), and National Pollution Discharge Elimination System (NPDES) permits associated with mines, wastewater treatment plants, and industrial facilities. Facilities included Bagdad Copper Mine, Mineral Park Mine, Energy Fuels Pine Nut, Arizona One and Canyon Mines. Certifications: Safe Drinking Water Certified Operator; California Air Resources Board 200 (CARB); Method 9 Certification; MSHA Certification; OSHA 40 Hour Certification.

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.

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.

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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.

PROFESSIONAL & HONORARY SOCIETIES AND BOARDS

Past Commissioner, Cumbres and Toltec Scenic Railroad Commission; appointed by Governor Bill Owens, reappointed by Governors Bill Ritter and John Hickenlooper

Member, American Society of Civil Engineers

Past Commissioner, Southern Ute Indian Tribe / State of Colorado Environmental Control Commission; appointed by Governor Bill Owens

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