6-AVEK-1

CHARLES W. BINDER, PE
BINDER & ASSOCIATES CONSULTING, INC.

101 Parkshore Drive, Suite 100, Folsom, CA 95630
(916) 932-2335 • (916) 932-2336 (fax) • cwbinder@binder-associates.com

Education

- **Master of Business Administration,** University of California, Davis, 2003
  Graduate School of Management
  Concentration: Finance and Accounting

- **Master of Science,** Colorado State University, Fort Collins, 1981
  Department of Civil Engineering
  Concentration: Water Resources and Groundwater

- **Bachelor of Science,** Colorado State University, Fort Collins, 1978
  Department of Agricultural Engineering
  Concentration: Irrigation

Career Highlights

- Registered professional engineer with over 35 years consulting experience throughout western United States in water resources, engineering, environmental compliance, and water rights.

- Appointed Watermaster of the Santa Margarita River Watershed in the case United States of America v. Fallbrook Public Utility District, et al., United States District Court for the Southern District of California, Civil No. 51-cv-1247-GPC-RBB, to administer and enforce the provisions of the Modified Final Judgment and Decree and subsequent instructions and orders of the Court.

- Provided expert testimony and other litigation support services in cases involving water rights, flood control, land use, and land condemnation throughout the western United States. Cases included court and administrative proceedings before the U.S. Supreme Court, federal district courts, state courts, and various state agencies.

- Past projects were related to groundwater and surface water planning and management, groundwater and surface water hydrology, irrigation, water rights, river basin management, groundwater and soil contamination and remediation, design and construction of water supply facilities, flood control, hydraulics, storm drainage, erosion, and reservoir operation.

Professional Experience

Water Rights and Litigation Support

- Technical analyses and expert testimony
- Engineering support for settlement negotiations
- Watermaster services
- Water rights applications and licensing
- Water rights adjudications
- Water transfers and exchanges
- Studies of legal and physical availability of water rights

Water Resources Planning and Management

- Water supply alternatives and feasibility studies
- Reservoir and river basin operations modeling
- Engineering support for agency coordination and regulations
- NEPA and CEQA documentation
- Financial analysis and rate studies

Groundwater Hydrology

- Conjunctive use and groundwater banking
- Groundwater basin yield determinations
- Artificial recharge
- Surface water interaction
- Groundwater well design

Surface Water Hydrology

- Water supply and demand
- Water budget and hydrologic inventories
- Hydrologic and statistical analyses
- Flood control and storm drainage
- Irrigation water supply and practices

Employment History

President and Principal Engineer, Binder & Associates Consulting, Inc., Folsom, CA	2004 - present
Principal Engineer, Science Applications International Corporation, Sacramento, CA	2001 - 2004
Director, Bookman-Edmonston Engineering, Sacramento, CA	1993 - 2001
Senior Engineer, Todd Engineers, Berkeley, CA	1989 - 1993
Senior Engineer and Part Owner, Spronk Water Engineers, Denver, CO	1985 - 1989
Senior Engineer, Simons, Li & Associates, Salt Lake City, UT	1983 - 1985
Project Engineer, Ted Zorich & Associates, Denver, CO	1980 - 1983

Professional Engineering Registrations

- California: 1987 (CE-43480)
- Colorado: 1983 (PE-20809)
- Nevada: 2000 (CE-014265)

Professional Affiliations

- American Society of Civil Engineers
- American Water Resources Association
- American Water Works Association
- Groundwater Resources Association of California
- National Ground Water Association

Selected Project Experience

Binder & Associates Consulting, Inc., President and Principal Engineer (November 2004 to Present)

Appointed Watermaster of the Santa Margarita River Watershed in the case United States of America v. Fallbrook Public Utility District, et al., United States District Court for the Southern District of California, Civil Action No. 51-cv-1247-GPC-RBB, to administer and enforce the provisions of the Modified Final Judgment and Decree and subsequent instructions and orders of the Court. Court ordered duties include preparation of annual Watermaster report on diversions of native and imported water, surface water flows, groundwater levels, reservoir operations, water quality, and water rights; tabulation of uses and water rights for all substantial users in watershed; investigation of unauthorized water uses and appropriations in watershed; administration of Lake Skinner and Diamond Valley Lake agreements for reservoirs owned and operated by Metropolitan Water District of Southern California; administration of Cooperative Water Resource Management Agreement between United States and Rancho California Water District; and reporting to Steering Committee appointed by the Court for ongoing litigation in the case.

Provided water resources planning and hydrological analyses services for developing water supplies in Gila River Basin in southwestern New Mexico and southeastern Arizona. Analyses include identifying and evaluating possible water supply and exchange alternatives as well as modeling to evaluate water operations scenarios. Issues include reservoir operations, satisfying existing water rights, quantity and quality of water supplies, reliability, exchange mechanisms, Central Arizona Project operations, groundwater supplies, interstate issues, legal and institutional considerations, and environmental issues.

Provided expert testimony and other litigation support services on behalf of Truckee-Carson Irrigation District for variety of water rights issues on the Truckee and Carson Rivers, Nevada. Issues relate to an alleged overdiversion of Truckee River supplies for delivery to the Newlands Project, temporary transfers of water rights, change in use of water rights, operations of upper Truckee River reservoirs, and impacts of proposed Truckee River Operating Agreement.

Provided expert testimony and other litigation support services on behalf of Nevada Waterfowl Association and Nevada Department of Wildlife for acquisition and change in place of use of water rights for water supplies for Carson Lake and Pasture wetlands.

Conducted hydrogeological and water rights investigations on behalf of Hopland Public Utility District concerning groundwater classification issues for the Russian River, California. Issues include percolating groundwater versus subterranean stream flow, surface water and groundwater interaction, and water rights enforcement and administration by the State Water Resources Control Board.

Science Applications International Corporation, Principal Engineer (October 2001 to November 2004)

Served as Principal-in-Charge for hydrologic analyses and risk assessment for projecting energy generation and gross revenues for Lahontan New Power Plant, Truckee-Carson Irrigation District, Newlands Project, Nevada. Analyses included development of spreadsheet model to simulate water operations using historical hydrological conditions to project monthly releases and water surface elevations for Lahontan Reservoir. The simulated water operations were then converted to energy generation and gross revenues based on the standard power equation and estimated overall efficiencies. Sensitivity and scenario analyses were conducted in conjunction with statistical analyses to assess risks for purposes of potential acquisition of the generation asset. An analysis was also conducted to determine gross revenues required to fully fund the purchase of the New Plant under various scenarios and financing assumptions.

Served as Project Engineer for hydrologic analyses and preparation of the hydrology sections of the CEQA documentation for the Laval Farms Water Management and Exchange including State Water Resources Control Board Water Right Applications and the Wheeler Ridge-Maricopa Water Storage 850 Canal/Reservoir No. 1 Pump-back. This project includes water right applications to the State Water Resources Control Board and the construction of infrastructure to divert and convey water from seven local creeks for agricultural uses. Hydrologic analyses included evaluation of surface water diversions and groundwater conditions using rainfall-runoff analyses and spreadsheet allocation and water budget models.

Provided expert testimony and other litigation support services on behalf of Truckee-Carson Irrigation District, State of Nevada, and City of Fallon in United States v. TCID Board of Directors, et al., U.S. District Court, Nevada. Issues relate to an alleged overdiversion of Truckee River supplies for delivery to the Newlands Project. Analyses include review of applicable regulations and decrees governing diversions from the Truckee River, analysis of historical streamflow and diversion records, analysis of historical reservoir operations, and review of the proposed recoupment plan for repayment of the alleged overdiversions.

Provided litigation support services on behalf of four oil companies in Santa Maria Groundwater Basin Adjudication, California. Issues related to determination of groundwater overdraft conditions and delineation of water rights for overlying landowners and water purveyors. Analyses included evaluation of hydrogeologic information, determination of groundwater basin boundaries, quantification of land use and historical water use practices, preparation of hydrologic inventories, and formulation of elements of groundwater management plan.

Bookman-Edmonston Engineering, a division of Navigant Consulting, Inc., Director, Water Resources (August 1993 to October 2001)

Provided expert testimony and other litigation support services on behalf of North Kern Water Storage District in California Superior Court for Kern River water rights litigation. Principal issues concerned the historical use of surface water supplies in accordance with the Miller-Haggin Agreement, Shaw Decree and other agreements governing the use and allocation of water rights on the Kern River; the loss of water rights through forfeiture, prescription, and abandonment; evaluation of historical groundwater conditions; and estimated effects on groundwater conditions and water supplies for various scenarios. Analyses included evaluation of historical streamflow and diversion records, analysis of water supplies for the North Kern Water Storage District 1950 Project, and development of water balance models.

Prepared the Delta Water Transfer Handbook--Guidelines for Temporary and Long-Term Transfers Through the Delta. The Handbook outlines the procedures necessary to successfully implement water transfers through the Sacramento-San Joaquin Delta in California. Three main topics are included in the Handbook: (1) explanation of the issues pertinent to transfers through the Delta, (2) identification of guidelines and procedures for formulating a transfer petition, and (3) description of procedures to facilitate approval by the State Water Resources Control Board and other legally responsible entities.

Prepared scoping report for Sacramento River Basin-Wide Water Management Plan to be developed initially to assist the Sacramento River Settlement Contractors and the U.S. Bureau of Reclamation in negotiations for renewal of settlement contracts. The broader objective of the plan is to provide an ongoing, comprehensive basis upon which to manage water resources to meet the Settlement Contractors' existing and future needs in a manner that can serve other needs in the Sacramento Valley, such as use of water for the environment. Scoping activities included several meetings with principals and stakeholders, identification of key issues, identification of specific objectives of the plan, inventory of available data and reports, and preparation of the scope of work for developing and preparing the plan. The effort also included scoping for updating the 1956 Cooperative Studies, which

were the original hydrology and operations studies that provided the basis for negotiations of the original settlement contracts.

Served on multi-disciplinary team preparing Supplemental Environmental Impact Statement for Animas-La Plata Project that is proposed for supplying water in southwestern Colorado and northwestern New Mexico. Responsibilities include evaluation of acquisition and transfer of existing water rights as a non-structural alternative to the proposed Federal action. Water rights identified for potential acquisition include existing private irrigation rights as well as water supplies under existing Federal projects. Considerations include change of use proceedings under Colorado and New Mexico law as well as provisions of applicable interstate compacts. Other analyses include evaluation of impacts on water rights under the Colorado Ute Indian Water Rights Final Settlement Agreement and Colorado Ute Indian Water Rights Settlement Act of 1988.

Provided litigation support services for flood control agency in the Sacramento, California area related to the major flood events in 1986, 1995, and 1997. Issues include whether lands were subject to historical flooding, determination of reasonableness under the Locklin Factors, and apportionment of damages. Analyses include review of historical documents, review of observations during flooding, and hydrologic and hydraulic modeling.

Provided expert testimony and other litigation support services on behalf of Yuba County Water District, California concerning a property dispute related to the proposed New York Flat Dam and Reservoir Project. Considerations include the District's present and future water demands, available water supplies, water rights, existing and proposed conveyance facilities, project feasibility, and financing.

Managed services provided to the consultant team assisting CALFED Bay-Delta Program staff in developing solutions to problems affecting the San Francisco Bay/Sacramento-San Joaquin Delta estuary in northern California. Assistance to staff included development and evaluation of alternatives to meet water supply, water quality, fisheries, and system vulnerability objectives; development of analytical tools for evaluating alternatives; and conducing prefeasibility evaluations of storage and conveyance facilities.

Managed study to evaluate water management alternatives for securing one million acre-feet of water in the Snake River Basin, Idaho and Oregon, to assist in recovering threatened and endangered salmon species. Alternatives included changed operation of reservoirs, improved irrigation management, conjunctive use of groundwater and surface water supplies, water marketing, and land fallowing. The alternatives were evaluated using the Idaho Department of Water Resources Upper Snake River Planning Model and Snake Plain Aquifer Model. Spreadsheet models were developed to analyze reservoir operations for Owyhee Reservoir and the Boise River system. The study also included economic input/output modeling to evaluate regional direct and indirect impacts in terms of jobs and dollars associated with retiring 450,000 to 600,000 acres of irrigated lands. Economic impacts on hydroelectric power generation due to changed timing of streamflow and increased streamflow were also evaluated.

Developed process for identifying and evaluating possible water supply sources and delivery options for a water development project in eastern Arizona. Process included a pre-screening evaluation to identify fatal flaws. The formal screening process involved Level 1 screening to sort and rank possible sources based on several attributes related to quantity and quality of water, adequacy, reliability, delivery mechanisms, legal and institutional considerations, environmental compliance, socioeconomic aspects, capital and operating costs, and implementation time. Level 2 screening included prefeasibility evaluations of the most favorable alternatives. Alternatives evaluated included water supplies developed from the Central Arizona Project, local surface water rights, groundwater resources, wastewater reclamation, and interstate supplies.

Managed the Animas River Recreation Assessment for final supplement to the 1996 Environmental Impact Statement for the Animas-La Plata Project, Colorado and New Mexico. Available historic streamflow and recreational usage data were obtained and combined with observed field data and interviews with rafting outfitters to assess potential impacts of the project on river-related recreation. A model was developed to determine impacts on recreation user-days for varying threshold flows. A review was conducted to assess economic impacts of streamflow alterations on whitewater recreation activities and to identify potential mitigation measures.

Conducted hydrogeological analyses and operations studies for a prefeasibility evaluation of a conjunctive use and banking project in San Bernardino County, California. Analyses included an evaluation of recoverable groundwater to maintain safe yield of local groundwater, operations studies to evaluate recharge, storage, and extraction potential for various water supply and demand scenarios, review of modeling to evaluate horizontal migration of groundwater beyond capture zones, and preliminary sizing of recharge and extraction facilities. Evaluations also included identification of legal and institutional considerations as well as environmental compliance and other considerations for implementation.

Provided technical support to the Fort Belknap Indian Community, Montana, to develop irrigation of about 66,000 acres of Reservation land and assist the Community in negotiations with local water users, the State of Montana, and the federal government for a negotiated water rights settlement. The irrigation development plan includes economic analyses to determine practicably irrigable acreage (PIA). A model was developed to determine the yield of the water rights on the Milk River under varying operation scenarios and PIA criteria. The water rights settlement process has included quantification of equity claims pertaining to lost economic opportunities due to not developing reserved water rights under the Winters Doctrine and damage claims for lost water rights due to non-Indian development of water resources.

Managed Economic Impact Study for the Animas-La Plata Project, Colorado and New Mexico to provide an updated evaluation of the economic analyses of the project and the Colorado Ute Indian Water Rights Settlement Act of 1988. The study involved identifying potential regional economic changes and indirect economic impacts. The study also included an assessment of potential ramifications of not developing the project in terms of probable litigation versus the present settlement of Indian water rights claims.

Conducted assessment of the groundwater recharge potential using reclaimed wastewater from the proposed regional wastewater treatment facility in San Luis Obispo County, California. The assessment included an evaluation of percolation and deep well injection sites based on local hydrogeological conditions and regulatory requirements. Also included was a summary of pertinent regulations including California Department of Health Services draft proposed regulations for groundwater recharge.

Conducted preliminary investigation and scoping study for potential marketing of recycled wastewater in Central Valley, California. Study included scoping meetings with regulatory agencies to delineate requirements for obtaining NPDES discharge permit, water rights, wheeling agreements, and CEQA compliance for marketing water via State Water Project facilities.

David Keith Todd Consulting Engineers, Inc., Senior Civil Engineer (March 1989 to July 1993)

Provided expert testimony on behalf of the United States in the Kansas v. Colorado--Arkansas River Compact litigation regarding water budget analyses, river basin modeling, streamflow, irrigation, evapotranspiration, and reservoir operation for 500,000-acre basin upstream of Colorado-Kansas state line. Principal issues concerned differences in state line flows comparing historical winter irrigation practices with changed operations which include storage of winter streamflows for subsequent summer

irrigation. Analyses included review and evaluation of historical irrigation diversion records and river streamflow records, estimation of winter soil evaporation, and error analysis of the river basin model.

Conducted water resources analyses for Mojave River Basin, California, including statistical analyses of streamflow and precipitation data, hydrogeologic characteristics, groundwater pumping, and operation of water supply and flood control reservoirs.

Evaluated hydrogeologic aspects and water quality impacts of alternatives for wastewater recycling by landscape and agricultural irrigation, stream enhancement, and groundwater recharge in Livermore Valley, California. Specific tasks included identification of artificial recharge methods and sites including put-and-take recharge through wells, deep basin recharge, and recharge through spreading in stream channels and shallow basins; evaluation of impacts of recycling alternatives on salt loading of groundwater basin; and development of recommended hydrogeologic investigations and monitoring to proceed with permitting and implementation of recycling projects.

Prepared preliminary design and operation study for artificial groundwater recharge project to mitigate impacts of gravel mining operation on San Benito River, California.

Analyzed perennial groundwater yield for a 100-square-mile groundwater basin in northeastern California to determine impacts of potential interstate water transfer. Precipitation analyses, groundwater recharge estimates, and water budget calculations were conducted to evaluate the potential perennial yield.

Prepared contract documents and technical specifications for installation of municipal water supply wells, Sunnyslope County Water District, California.

Evaluated alternatives and prepared cost estimates for remediation of soil and groundwater contamination for preparation of Remedial Investigation/Feasibility Study and Remedial Action Plan for site in Santa Clara County, California.

Conducted hydrologic, hydraulic, and sedimentation investigation for erosion litigation for 2,200-acre watershed in San Diego County, California. Analyses included HEC-1 modeling to estimate runoff from the watershed and application of Universal Soil Loss Equation to estimate sediment yield.

Prepared work plan and site safety plan and managed installation for drilling and sampling of monitoring wells at groundwater contamination site in Sparks, Nevada.

Spronk Water Engineers, Inc., Senior Water Resources Engineer (June 1985 to February 1989)

Conducted water resources investigation related to reservoir operations, irrigation practices, water rights administration, and exchange of water rights on the South Platte River, Colorado, for litigation support in Consolidated Ditches of Water District No. 2 v. the City and County of Denver. A model was developed to estimate the impact on the yield of water rights under various exchange scenarios. The model was used to determine water rights priorities and diversions based on daily historical diversion and call records. Analyses included interpretation of water rights decrees and agreements, interpretation of historical call records, and review and evaluation of historical irrigation diversion records and river streamflow records.

Analyzed crop consumptive use and irrigation return flows for transfer of water rights from irrigated lands to municipal use in South Platte River Basin, Colorado. Analyses included research and interpretation of historical diversion records and water rights decrees.

Designed groundwater recharge facility for municipal water district near Denver, Colorado. Collected and analyzed suspended sediment data for the design of sedimentation basin. Prepared construction

plans and specifications for diversion structure, water control structures, riprap bank protection, and site grading for alluvial recharge facility. Conducted drainage study and prepared drainage plan for site development of the facility. Provided expert testimony regarding groundwater conditions and use of the recharge facility for a land condemnation proceeding.

Designed canal diversion structure, flow measurement structure, and pipeline for golf course water supply system in Aurora, Colorado.

Prepared plans for augmentation for change in water rights applications. The plans included water supplies provided by junior water rights with net depletions being replaced by transferred senior surface water rights and nontributary groundwater.

Simons, Li & Associates, Inc., Senior Water Resources Engineer (September 1983 to May 1985)

Prepared hydrologic and hydraulic documentation reports for submittal to the Federal Emergency Management Agency to amend Flood Insurance Rate Maps for Boulder City, Nevada. Analyses included TR20 modeling for rainfall-runoff estimates and HEC-2 modeling to determine water surface profiles.

Prepared reservoir operation manual, area-capacity curves, outlet rating curves, and emergency preparedness information for Lopez Dam, Los Angeles County, California.

Prepared application for Corps of Engineers 404 Permit for emergency response and construction of flood control project in Green River, Utah.

Conducted hydraulic and sediment transport analyses for preliminary design of flood control measures for Little Cottonwood Creek, Salt Lake County, Utah. Analyses included HEC-2 modeling to determine water surface profiles and flow velocities. Sediment transport analyses included general aggradation and degradation estimates and local scour estimates.

Ted Zorich & Associates, Inc., Water Resources Engineer (June 1980 to August 1983)

Researched and evaluated historical diversion records, reservoir storage records, water rights decrees, land ownership records, aerial photographs, and other historical documents for water rights transfers. Evaluated crop consumptive use for determining historical firm yield of water rights to be transferred from irrigation to municipal purposes. Analyses included development of Fortran model to calculate effective precipitation and evapotranspiration using the Modified Blaney-Criddle method. Studies also included evaluation of lysimeter data and alternative methods for determining evapotranspiration from high altitude irrigated meadows.

Conducted streamflow depletion studies to determine impacts of water rights transfers on downstream water rights. Studies included on-farm water budgets and depletion analyses using USGS streamflow depletion factors and analytical Glover solutions for well pumping or parallel drain calculations.

Designed and administered construction contracts for water treatment plant improvements, pipelines, diversion structures, pumping plants, and storage tank for City of Lafayette, Colorado.

Colorado State University, Agricultural Engineering Department, Graduate Research Assistant and Research Technician (June 1973 to May 1980)

Developed statistical-based Fortran computer simulation model to predict furrow irrigation performance based on measured input parameters. Collected field data for development and verification of model.

Prepared thesis entitled Improving Furrow Irrigation Performance Through Management Decisions.

Prepared technical training materials for the Egypt Water Use Management Training Program conducted in Fort Collins, Colorado. Taught Egyptian engineers the fundamentals of open-channel flow measurement, surveying, land leveling, and irrigation system evaluation.

Evaluated on-farm water management practices and salinity control technologies for the Colorado River-Grand Valley Salinity Control Project. Collected and analyzed data related to surface and groundwater quality, groundwater levels, climatological conditions, land use, and irrigation practices.

Publications and Technical Reports

Mr. Binder has prepared the following selected publications and reports, either as principal author or significant contributor.

Santa Margarita River Watershed Watermaster, Annual Watermaster Report, Water Year 2013-14, United States of America v. Fallbrook Public Utility District, et al., Civil No. 51-cv-1247-GPC-RBB, August 2015.

Santa Margarita River Watershed Watermaster, Annual Report for Cooperative Water Resource Management Agreement, Calendar Year 2014, United States of America v. Fallbrook Public Utility District, et al., Civil No. 1247-SD-GPC-RBB, May 2015.

Santa Margarita River Watershed Watermaster, Annual Watermaster Report, Water Year 2012-13, United States of America v. Fallbrook Public Utility District, et al., Civil No. 51-cv-1247-GPC-RBB, July 2014.

Santa Margarita River Watershed Watermaster, Annual Report for Cooperative Water Resource Management Agreement, Calendar Year 2013, United States of America v. Fallbrook Public Utility District, et al., Civil No. 1247-SD-GPC-RBB, May 2014.

Santa Margarita River Watershed Watermaster, Annual Watermaster Report, Water Year 2011-12, United States of America v. Fallbrook Public Utility District, et al., Civil No. 51-cv-1247-GPC-RBB, July 2013.

Santa Margarita River Watershed Watermaster, Annual Report for Cooperative Water Resource Management Agreement, Calendar Year 2012, United States of America v. Fallbrook Public Utility District, et al., Civil No. 1247-SD-GPC-RBB, July 2013.

Santa Margarita River Watershed Watermaster, Annual Watermaster Report, Water Year 2010-11, United States of America v. Fallbrook Public Utility District, et al., Civil No. 51-cv-1247-LAB-RBB, September 2012.

Santa Margarita River Watershed Watermaster, Annual Report for Cooperative Water Resource Management Agreement, Calendar Year 2011, United States of America v. Fallbrook Public Utility District, et al., Civil No. 1247-SD-GT-RBB, September 2012.

Santa Margarita River Watershed Watermaster, Annual Watermaster Report, Water Year 2009-10, United States of America v. Fallbrook Public Utility District, et al., Civil No. 1247-SD-GT-RBB, September 2011.

Santa Margarita River Watershed Watermaster, Annual Watermaster Report, Water Year 2008-09, United States of America v. Fallbrook Public Utility District, et al., Civil No. 1247-SD-GT-RBB, September 2010.

Santa Margarita River Watershed Watermaster, Annual Watermaster Report, Water Year 2007-08, United States of America v. Fallbrook Public Utility District, et al., Civil No. 1247-SD-GT-RBB, October 2009.

Santa Margarita River Watershed Watermaster, Annual Watermaster Report, Water Year 2006-07, United States of America v. Fallbrook Public Utility District, et al., Civil No. 1247-SD-T, August 2008.

Santa Margarita River Watershed Watermaster, Annual Watermaster Report, Water Year 2005-06, United States of America v. Fallbrook Public Utility District, et al., Civil No. 1247-SD-T, August 2007.

Santa Margarita River Watershed Watermaster, Annual Watermaster Report, Water Year 2004-05, United States of America v. Fallbrook Public Utility District, et al., Civil No. 1247-SD-T, August 2006.

SAIC Engineering, Inc., Projected Energy Generation and Gross Revenues for Lahontan New Power Plant, Report prepared for Truckee-Carson Irrigation District, February 17, 2004.

Science Applications International Corporation, Laval Farms Water Management and Exchange, Including Water Right Applications, and Wheeler Ridge-Maricopa Water Storage District 850 Canal/Reservoir No. 1 Pump-back, Draft Environmental Impact Report, Wheeler Ridge-Maricopa Water Storage District, November 2003.

Bookman-Edmonston Engineering, Comparison of Reported and Allowable Net Irrigation Diversions for 1973 through 1987 Under the Decrees for Newlands Project, Nevada, Report prepared for Truckee-Carson Irrigation District, State of Nevada, and City of Fallon, Nevada, October 20, 2000.

Bookman-Edmonston Engineering, Compilation of Diversion Records for Newlands Project, Nevada, for Period 1945 through 1987, Report prepared for Truckee-Carson Irrigation District, State of Nevada, and City of Fallon, Nevada, September 20, 2000.

Bookman-Edmonston Engineering, Compilation of U.S. Bureau of Reclamation "Crop Production Reports" for Newlands Project, Nevada, Report prepared for Truckee-Carson Irrigation District, State of Nevada, and City of Fallon, Nevada, September 19, 2000.

Navigant Consulting, Inc., Animas-La Plata Project Water Rights Considerations and Constraints, Attachment D—Part 1, Animas-La Plata Project Draft Supplemental Environmental Impact Statement, U.S. Department of Interior, Bureau of Reclamation, Upper Colorado Region, December 1999.

Bookman-Edmonston Engineering, Inc., Use of Entitlement and Release Water Under North Kern Water Storage District Diversion Rights, Report prepared for North Kern Water Storage District, July 1998.

Bookman-Edmonston Engineering, Inc., Beneficial Use of Kern River Water by North Kern Water Storage District, Report prepared for North Kern Water Storage District, July 1998.

Bookman-Edmonston Engineering, Inc., Summary of Records of Kern River Entitlement and Use for the First Point Diversion Rights, Report prepared for North Kern Water Storage District, May 1998.

Bookman-Edmonston Engineering, Inc., Actual Diversion and Use of Kern River Water by the Principal First Point Diverters under a Variety of Hydrologic Conditions, Report prepared for North Kern Water Storage District, May 1998.

Bookman-Edmonston Engineering, Inc., Evaluation of Forfeiture by Diversion Rights Presently Controlled By Kern Delta Water District, Report prepared for North Kern Water Storage District, May 1998.

Bookman-Edmonston Engineering, Inc., Evaluation of Prescription by North Kern Water Storage District Against Diversion Rights Presently Controlled by Kern Delta Water District, Report prepared for North Kern Water Storage District, May 1998.

Bookman-Edmonston Engineering, Inc., Evaluation of Overdiversion of Kern River Water by Kern Delta Water District, Report prepared for North Kern Water Storage District, May 1998.

Bookman-Edmonston Engineering, Inc., Analysis of Kern River Water Supplies for North Kern Water Storage District 1950 Project, Report prepared for North Kern Water Storage District, May 1998.

Bookman-Edmonston Engineering, Inc., Development of Water Balance Models for North Kern Water Storage District and Kern Delta Water District, Report prepared for North Kern Water Storage District, May 1998.

Supplemental Reports for Water Balance Models:

No. 1 Irrigated Acreage and Cropping Distribution, May 1998.

No. 2 Crop Consumptive Use, Irrigation Efficiency, and Applied Water Requirement, May 1998.

No. 3 Effective Precipitation, May 1998.

No.4 Surface Water Irrigation Deliveries, Evaporation, and Seepage Losses Within Kern Delta Water District, May 1998.

No. 5 Deliveries to Sewer Farms within Kern Delta Water District, May 1998.

No. 6 District Irrigation Deliveries, Evaporation, and Seepage Losses Within North Kern Water Storage District, May 1998.

No. 7 Observed Groundwater Levels, May 1998.

No. 8 Groundwater Underflow Parameter Estimates, May 1998.

Bookman-Edmonston Engineering, Inc., Estimated Effects on Groundwater Conditions and Water Supplies for North Kern Water Storage District and Kern Delta Water District, Report prepared for North Kern Water Storage District, May 1998.

Bookman-Edmonston Engineering, Inc. (in association with Murray, Burns and Kienlen and Natural Resource Scientists, Inc.), Scoping Report for Sacramento River Basin-Wide Water Management Plan, Report prepared for the Sacramento River Settlement Contractors, May 13, 1998.

American Society of Civil Engineers, Standard Guidelines for Artificial Recharge of Ground Water, ASCE Standards, Ballot Draft March 1998, February 13, 1998. (Contributing Member of the Artificial Recharge of Ground Water Standards Committee of the Water and Environmental Standard Council)

Bookman-Edmonston Engineering, Inc., Jones & Stokes Associates, Inc., and Bartkiewicz, Kronick & Shanahan, Delta Water Transfer Handbook: Guidelines for Temporary and Long-Term Water Transfers Through the Delta, Prepared for the Authority for Environmental Analysis of Water Transfers in association with the Bay-Delta Transfers Committee, 1996.

Bookman-Edmonston Engineering, Inc., Report of Waste Discharge for Western Hills Water District NPDES Discharge Permit to Discharge Reclaimed Wastewater from City of Patterson, Draft Report prepared for Western Hills Water District, December 13, 1995.

Bookman-Edmonston Engineering, Inc., Assessment of Non-Commercial Whitewater Recreation Uses on the Animas River for the Supplement to the Final Environmental Impact Statement, Animas-La Plata Project, Report prepared for the Ute Mountain Ute Tribe, September 1995.

Bookman-Edmonston Engineering, Inc., Assessment of Whitewater Recreation Uses on the San Juan River for the Supplement to the Final Environmental Impact Statement, Technical Memorandum prepared for the Ute Mountain Ute Tribe, September 1995.

Bookman-Edmonston Engineering, Inc., Assessment of Animas River Commercial Rafting for the Supplement to the Final Environmental Impact Statement, Proposed Plan, Phase I-Stage A, Phase I-Stage B, and Phase II, Animas-La Plata Project, Report prepared for the Ute Mountain Ute Tribe, September 1995.

Bookman-Edmonston Engineering, Inc., Assessment of Animas River Commercial Rafting for the Supplement to the Final Environmental Impact Statement, 1980 FES Plan, Animas-La Plata Project, Report prepared for the Ute Mountain Ute Tribe, February 1995.

Bookman-Edmonston Engineering, Inc., Assessment of Animas River Commercial Rafting for the Supplement to the Final Environmental Impact Statement, Animas-La Plata Project, Field Observation Data Report, Report prepared for the Ute Mountain Ute Tribe, February 1995.

Bookman-Edmonston Engineering, Inc., Animas-La Plata and Colorado Ute Water Rights Settlement Act: Economic Impact Study, Report prepared for the Ute Mountain Ute Tribe, Southern Ute Indian Tribe, and Southwestern Water Conservation District, December 1994.

Bookman-Edmonston Engineering, Inc. and Fredericks, Pelcyger, Hester & White, Water Rights Development for Fort Belknap Indian Reservation, Montana, Report prepared for the Tribes of the Fort Belknap Indian Reservation, September 1994.

Bookman-Edmonston Engineering, Inc., Report of the Snake River Basin Water Committee: Water Management Opportunities Within the Snake River Basin, Oregon and Idaho, June 1994.

Bookman-Edmonston Engineering, Inc., Appendices to the Report of the Snake River Basin Water Committee: Water Management Opportunities Within the Snake River Basin, Oregon and Idaho, June 1994.

Bookman-Edmonston Engineering, Inc., Los Osos Wastewater Study: Preliminary Assessment of Groundwater Recharge Potential Using Percolation Sites and Deep Well Injection, Memorandum to Metcalf & Eddy, Inc. from Charles W. Binder and Ernest M. Weber, May 25, 1994.

David Keith Todd Consulting Engineers, Inc., Southside Lakes Groundwater Resources Investigation, Draft Report prepared for Granite Rock Company, August 1993.

David Keith Todd Consulting Engineers, Inc., Technical Specifications: Sunnyslope Test Well and Sunnyslope Well No. 2, Prepared for Sunnyslope County Water District, May 1993.

Brown and Caldwell Consultants, Inc. (in association with David Keith Todd Consulting Engineers, Inc. and EOA, Inc.), Livermore-Amador Valley Water Recycling Study, Report prepared for Zone 7 of Alameda County Flood Control and Water Conservation District, Dublin San Ramon Services District, and City of Livermore, May 1992.

David Keith Todd Consulting Engineers, Inc., Installation and Sampling of Groundwater Monitoring Wells TO-4 Through TO-10, Time Oil Sparks Petroleum Terminal, Sparks, Nevada, Report prepared for Time Oil Co., November 8, 1991.

David Keith Todd Consulting Engineers, Inc., Hydrologic Analyses of Upper Arkansas River Basin, Volumes I, II, and III, Report prepared for U.S. Department of Justice, August 1990.

David Keith Todd Consulting Engineers, Inc., Enhanced Groundwater Recharge Program, San Benito River Channel, Hollister Sand Plant: Reclamation Plan Supplement, Report prepared for Granite Rock Company, July 1990.

Spronk Water Engineers, Inc., Special Provisions for High Line Canal Headgate, Centre Hills Golf Course, Project Manual, City of Aurora, Colorado, Contract Documents prepared for City of Aurora, Colorado, December 8, 1987.

Spronk Water Engineers, Inc., Project Manual: SACWSD Alluvial Recharge Facility No. 2, Contract Documents prepared for South Adams County Water and Sanitation District, October 1987.

Spronk Water Engineers, Inc., Use of SACWSD Alluvial Recharge Facility No. 2 for Augmentation: Case No. W-8440-76D, Report prepared for South Adams County Water and Sanitation District, Commerce City, Colorado, June 1987.

Spronk Water Engineers, Inc., Engineering Report for Lochbuie Plan for Augmentation: Case No. 84CW026, Report prepared for Lochbuie Water Company, et al., December 1986.

Spronk Water Engineers, Inc., Engineering Report for Clarke Properties Plan for Augmentation: Case No. 85CW200, Report prepared for Twenty Mile Joint Venture, et al., May 1986.

Spronk Water Engineers, Inc., Alternative Water Supply Study, Report prepared for South Adams County Water and Sanitation District, Commerce City, Colorado, January 1986.

Simons, Li & Associates, Inc., Hydrologic and Hydraulic Analysis for Request to Revise Flood Insurance Map and Flood Insurance Study, Georgia Avenue Wash, Boulder City, Nevada, Report prepared for City of Boulder City, Nevada, March 28, 1985.

Simons, Li & Associates, Inc., Background Information for Request to Revise Flood Insurance Map and Flood Insurance Study, Georgia Avenue Wash, Boulder City, Nevada, Report prepared for City of Boulder City, Nevada, March 28, 1985.

Simons, Li & Associates, Inc., Draft Lopez Dam Water Control Manual, Report prepared for U.S. Army Corps of Engineers, Los Angeles District, December 14, 1984.

Simons, Li & Associates, Inc., Hydraulic and Sediment Transport Analysis and Preliminary Design of Flood Control Measures for Little Cottonwood Creek near 6600 South and Wheeler Farm, Report prepared for James M. Montgomery Consulting Engineers, Inc., February 17, 1984.

Simons, Li & Associates, Inc., Hydraulic and Sediment Transport Analysis and Preliminary Design of Flood Control Measures for Mill Creek Between I-215 and 1300 East Street, Salt Lake County, Utah, Report prepared for James M. Montgomery Consulting Engineers, Inc., January 20, 1984.

Simons, Li & Associates, Inc., Hydraulic and Sediment Transport Analysis of Little Cottonwood Creek from Willow Creek Basin Through Creek Road Bridge, Report prepared for James M. Montgomery Consulting Engineers, Inc., January 6, 1984.

Ted Zorich and Associates, Inc. and Swanson-Rink and Associates, Contract Documents and Specifications for 1983 Telemetry and Control Package, Prepared for City of Lafayette, Colorado, April 1983.

Ted Zorich and Associates, Inc., Contract Documents and Specifications for Baseline Reservoir Inlet Improvements, Prepared for City of Lafayette, Colorado, August 1982.

Ted Zorich and Associates, Inc., Contract Documents and Specifications for Eldorado Springs Pipeline Improvements, Prepared for City of Lafayette, Colorado, May 1982.

Ted Zorich and Associates, Inc., Specifications for Baseline Reservoir Outlet Modifications, Prepared for City of Lafayette, Colorado, April 1982.

Binder, C.W., Improving Furrow Irrigation Performance Through Management Decisions, M.S. Thesis, Colorado State University, Fort Collins, Colorado, 1981.