

Mary Kay Brengosz, P.E.
Principal and Senior Water Resources Engineer
Spronk Water Engineers, Inc.

Education: Bachelor of Science Degree in Civil Engineering/Water Resources, December 1978,
University of Wisconsin-Milwaukee.

Professional
Registration: Professional Engineer in Colorado.

Professional
Memberships: American Society of Civil Engineers
American Water Resources Association

Work Experience:

May 1997 Senior Water Resources Engineer
to Spronk Water Engineers, Inc.
Present 1000 Logan Street
Denver, Colorado 80203

Perform and manage engineering analyses relating to water resources, water rights and hydrology. Projects include water rights evaluations and appraisals, changes of water rights, plans for augmentation, water supply planning and development, water rights accounting, reservoir operation studies, water system yield studies, crop consumptive use and stream depletion analyses, and river basin modeling.

November 1993 Water Resources Administrator
to Utilities Department
May 1997 City of Thornton, Colorado

Responsible for activities in the Clear Creek basin related to water acquisition, water rights transfer and protection, water supply operations, management and accounting. Performed coordination and management of water rights decrees and operating agreements in the basin, and supervision of technical staff. Directed legal counsel and technical consultants on water rights transfers, projects, contracts, negotiations and litigation. Coordinated water resources planning and development activities within the Utilities Department and with other City Departments. Performed review of project proposals and water court applications to determine impacts to City water rights or facilities. Represented the City at meetings with other water users

and on ditch company Boards of Directors. Served as secretary for the Colorado Agricultural Ditch Company and as president for the Farmers' High Line Lateral Ditch Company.

July 1985
to
June 1988

Water Resources Engineer
Leonard Rice Consulting Water Engineers, Inc.
Denver, Colorado

Performed surface water investigations, water rights evaluations, water supply and hydrologic analyses, and computer modeling of hydrologic and hydraulic systems. Work included determination of physical and legal availability of water; yield of water rights; water supply, demand and operational planning for municipal and industrial clients; evaluation of impacts of water rights modifications; use, development and modification of computer models relating to water rights operations; river basin hydrology and flood plain determination; preparation of reports; participation in settlement negotiations; presentations on technical matters to citizen advisory groups and public meetings.

March 1982
to
July 1985

Project Engineer
J.W. Patterson & Associates, Inc.
Denver, Colorado

Performed a variety of analyses for municipal and agricultural water development. Work included analysis of water supply and water rights, crop evapotranspiration, irrigation return flow timing and volume and land use; reservoir sizing studies; field inspection of irrigated land and irrigation systems; development and operation of computer models related to streamflow, irrigation systems, reservoir operation and watershed runoff; water rights litigation and participation in settlement negotiations.

January 1979
to
June 1981

Environmental Engineer
Camp Dresser & McKee, Inc.
Milwaukee, Wisconsin

Involved in planning and design for municipal wastewater treatment plants. Work included evaluation of sludge handling alternatives; evaluation and selection of sites for a sludge landfill and storage facility; preparation of a computerized management and operation plan for agricultural application of sludge; design of anaerobic digesters and chlorine contact chambers; report preparation; site inspections; drainage studies; cost analyses; litigation support activities.

Expert Testimony: District Court, Water Division 1, 1995CW145, 2000 (deposition and trial)
District Court, Water Division 1, 1992CW058 and 059 Consolidated, and
1993CW055, 2001 (deposition)
District Court, Water Division 1, 2003CW195, 2005 (deposition)
Routt County Colorado District Court, 2006CV104, 2008 (trial)
US District Court, District of New Mexico, 68CV07488 and
70CV08650BB, Consolidated, 2009 (deposition)

Publications Within the Last Ten Years:

City of Thornton's Technical Comments on the Segment 14, South Platte River, Nitrate TMDL Noticed by WQCD on August 18, 2000, Appendix A.

"Expert Disclosures Regarding City of Black Hawk's Proposed Junior Appropriations, Case No. 92CW058", "Expert Disclosures Regarding City of Black Hawk's Proposed Exchanges, Case No. 92CW059", "Expert Disclosures Regarding City of Black Hawk's Effluent Diversion, Case No. 93CW055", Douglas H. Clements and Mary Kay Brengosz, October 2001.

"Engineering Documentation, Logan Well Users Application for Water Rights, Change of Water Rights, and Plan for Augmentation, Case No. 03-CW-195", Mary Kay Brengosz and Dale Book, May 2005.

"Rebuttal Report, Logan Well Users; Case No. 03CW195", October 2005.

"Update to Engineering Documentation, Logan Well Users Application for Water Rights, Change of Water Rights, and Plan for Augmentation, Case No. 03-CW-195", October 2005.

"Rio Chama Acequia Association Conveyance and Diversion Study", January 2006

"Rio Chama Metering Study below Abiquiu Reservoir", Mary Kay Brengosz and Jon Mayberry, January 2006

June 5, 2007 memorandum regarding: "Weather Data and PET, Arkansas Valley 2005 and 2006", Mary Kay Brengosz and Richard G. Allen.

"Opinions Regarding Woodchuck Ditch, Case No. 2006CV104 in Routt County District Court", February 2008.

May 9, 2008 memorandum regarding: "Weather Data and PET, Arkansas Valley 2007", Mary Kay Brengosz and Richard G. Allen.

"Climate Data Assessment and Calculation of Crop ET and Reference ETo, Acoma and Laguna Pueblos", State ex rel. State Engineer v. Kerr-McGee, et al., Cause No. CB-83-190-CV & CB-83-220-CV (Consolidated), Subproceeding 1, September 2008.

“Climate Data Assessment and Calculation of Crop ET and Reference ETo, Ohkay Owingeh Pueblo”, State ex rel. State Engineer v. Abbot, et al., Cause No. CIV 7488 SC & CIV 8650 SC (Consolidated), September, 2008.

“Engineering Documentation, Logan Well Users, Prewitt ranch Recharge Project Request for Approval of Credits, Case No. 03CW195”, Mary Kay Brengosz and Katryn S. Leone, February 2009.

“Interstate Collaboration in the Arkansas River Compact Compliance Process: The “Nuts and Bolts” of Developing PET for Canal Service Areas for Input to the H-I Model”, Proceedings of the World Environmental and Water Resources Congress, May 17-21, 2009, Environmental and Water Resources Institute of the American Society of Civil Engineers.

“Overview of Development and Use of Crop ET estimates with Hydrological Models for Interstate Compacts”, Dale E. Book and Mary Kay Brengosz, Proceedings of the World Environmental and Water Resources Congress, May 17-21, 2009, Environmental and Water Resources Institute of the American Society of Civil Engineers.

“Supplemental Expert Disclosures, City of Loveland Change of Water Rights in Case No. 02CW392”, Gregory K. Sullivan and Mary Kay Brengosz, January 29, 2010