**Curriculum Vitae**

## Personal Information:

**Daniel W. Boyd, P.E., D.WRE**
CDM (Camp, Dresser and McKee)
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## Education:

B.S. - Civil Engineering
California State Polytechnic University, Pomona, 1969

Advanced coursework in Civil Engineering
California State University, San Diego

Stanford University Advanced Management College, 1995

## Experience:

Mr. Boyd is the Manager of CDM's West Region which includes 9 western states, as well as Alaska, Hawaii and Western Canada. Mr. Boyd has over 31 years of engineering management and organizational leadership. Prior to joining CDM, he served as Chief Executive Officer of Boyle Engineering Corporation. His water resources experience includes overseeing the planning, design and construction of water supply projects throughout the western US.

### *Project Roles and Accomplishments*

**Owens Lake Dust Mitigation Phase VII Design.** For the Los Angeles Department of Water & Power, Mr. Boyd is currently overseeing the Phase VII design of shallow flooding and moat and row dust mitigation measures as leader of the CDM Technical Review Committee for this project. He is providing technical guidance to the design team and oversight.

**Principal-in-Charge. Lake Powell Pipeline for the Washington County Water Conservancy District UT.** Mr. Boyd served as Principal-in-Charge for the planning of this $380 million, 120-mile, 68-inch pipeline from Lake Powell to Saint George, UT.

**Principal-in-Charge. Ritschard Dam, Colorado River Water Conservation District.** Mr. Boyd was Principal-in-Charge during the preliminary and final design and construction services for Ritschard Dam near Kremmling, Colorado, for the Colorado River Water Conservation District. The 120-foot-high zoned embankment dam features a conventional ogee crest service spillway and a three-stage fuse plug emergency spillway. The outlet works intake structure is a free-standing tower in the reservoir with four gates at different elevations to facilitate selective withdrawal of reservoir water. Trash racks for the gates are designed to limit velocities of the 200 cfs discharge, reducing the loss of fish from the reservoir. The project also included the relocation of two miles of U.S. Highway 40 and design of the Wolford Mountain Recreation Area.

**Principal-in-Charge for the Diamond Fork Pipeline Project for the Central Utah Water Conservancy District.** The project involved the preliminary design, preparation of the predesign report and final design for seven miles of 96-inch diameter transmission pipeline. Project involved environmental support services, including a biological assessment and system operations. The $50 million Diamond Fork Pipeline is the first major construction project by the District since taking over the Central Utah Project from the Bureau of Reclamation.

**Principal-in-Charge. Rio Grande Project Area Water Conveyance/Storage Evaluation and El Paso Water Resources Management Plan, El Paso, Texas.** Mr. Boyd served as Principal-in-Charge for the evaluation of water conveyance and storage concepts in the Rio Grande Project Area for the New Mexico/Texas Water Commission. Project area included the Rio Grande Project Area from Elephant Butte Reservoir in New Mexico to El Paso, Texas, and involved a feasibility study of water conveyance and treatment alternatives for meeting water supply needs in the region. Mr. Boyd also led the preparation of a 50-year water supply master plan that included water demand projections, evaluation of alternative new sources of water, legal constraints by international treaty and interstate river compact, conversion of agricultural water to municipal supplies, recharge of groundwater basins, and reuse of treated wastewater.

**Principal-in-Charge. San Miguel Water Supply Project, Southwestern Colorado.** The purpose of this project was to evaluate the technical and financial feasibility of improving and extending three existing ditch and reservoir systems. The analysis included operation studies to determine reservoir capabilities and yields for alternative project configurations based on basin hydrology and various legal, physical and operational constraints.

**Project Manager. Joint-Use Reservoir and Green Mountain Exchange Project, Colorado.** The project evaluated the water resources of the entire Upper Colorado River Basin in Colorado and investigated the feasibility of transmountain diversions to supply water for the Denver Metropolitan area. The study included the evaluation of nine alternative dam and reservoir sites, including water rights, hydrology, reservoir yields, geotechnical analysis, preliminary design, and costs. A computer model was developed to simulate 8,000 square miles of basin on a monthly basis over a 32-year historical period.

**Project Engineer. U.S. Justice Department v. Escondido Mutual Water Company Water Rights Study.** Project involved water resources and agricultural investigations for six Native American reservations in the San Luis Rey River basin, California. Surface and resources were evaluated as supply for about 9,000 acres of potentially irrigable land.

**Project Engineer. Water Resources Investigation to Determine Water Rights for Mescalero Apache Indian Reservation, Rio Ruidoso, NM.** The study was performed for the Bureau of Indian Affairs. Tasks included evaluation of watershed yield, description of irrigable facilities, and estimation of project costs.

## Honors/Awards:

**2002 Marvin M. Black Excellence in Partnering Award** – for Successful Application of the Principles of Partnering in the Construction of the Owens Lakes Shallow-Flooding Irrigation Project.

## Autobiography:

Mr. Boyd was born and raised in Southern California and attended California State Polytechnic University in Pomona, where he earned a BS in Civil Engineering in 1969. Following graduation, he served as a Naval Officer in the US Navy Civil Engineer Corps and was stationed in Port Hueneme California and Adak Alaska until 1971. After the Navy, he moved to San Diego where he worked for Guy Winton Civil Engineer until 1973 when he Joined Boyle Engineering Corporation. Mr. Boyd held many positions in Boyle including President and CEO living in both Colorado and California. Mr. Boyd joined CDM in 2006 and now serves as CDM's West Region Manager covering the western US, Alaska, Hawaii and western Canada. Dan is married and has two sons. Mr. Boyd resides in San Juan Capistrano, California.

## Professional Activities:

**American Academy of Water Resources Engineers (AAWRE). Board of Directors and President Elect**. The Academy was created primarily to offer a voluntary, post-license credential that provides professional engineers an opportunity to gain further recognition in the broad field of water resources engineering.

**American Council of Engineering Companies (ACEC)**. **Member.** Active on Energy and Environment Committee.

**California State Chamber of Commerce. Director**. Organization made up of about 100 California business leaders focusing on improving the business climate in California. Serves on the Water Task Force with focus on promoting adequate water supply to support California's growth goals.

**National Water Resource Association (NWRA). Member**. Organization focusing on western water supply and quality issues.

**Water for the West. Director.** Nonprofit corporation whose mission is to provide educational opportunities to inform people about the history, culture, politics, and benefits of water and power generation in the western United States, and the role of the U.S. Bureau of Reclamation in such development.

**American Council of Engineering Companies (ACEC) California.** Chair Water Resource Committee.

**American Water Works Association (AWWA). Member**.

**American Society of Civil Engineers (ASCE). Member**.

**American Water Resource Association (AWRA). Member**.

**Association of California Water Agencies (ACWA). Member**.

**Water Environment Federation (WEF). Member.**