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4 **BEFORE THE STATE WATER**  
5 **RESOURCES CONTROL BOARD**  
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7 In the Matter of the State Water Resources ) Hearing Date: September 24, 2007  
8 Control Board (State Water Board) )  
9 Hearing to consider Monterey Peninsula ) Carmel River in Monterey County  
10 Water Management District's (MPWMD) )  
11 Petitions to Change Permits 7130B and )  
12 20808 (Applications 11674B and 27614) )  
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15 **EXHIBIT DF-1**

16 **MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**

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18 **Resume of Darby Fuerst, MPWMD Water Resources Manager**  
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## DARBY W. FUERST, P.H.

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### PROFESSIONAL EXPERIENCE

**Water Resources Manager/Senior Hydrologist**, Monterey Peninsula Water Management District, Monterey, California, January 2007 to present. Manage programs, services, and staff of the Water Resources Division and serve as Senior Hydrologist. Responsible for development, maintenance, and application of the Carmel Valley Simulation Model (CVSIM) and all data collection programs involving precipitation, streamflow, ground water levels, and water quality. Develop and test various operational plans involving reservoir releases and instream flow requirements to protect federally threatened species in the Carmel River Basin

**Senior Hydrologist**, Monterey Peninsula Water Management District, Monterey, California, July 2001 to December 2006. Responsible for development, maintenance, and application of the Carmel Valley Simulation Model (CVSIM). This model is the District's principal analytical tool and is used to test water system performance under varying water demand, structural, and management conditions. Results from the model have been used in water rights hearings before the State Water Resources Control Board, water allocation decisions by the District Board, and long-term water supply planning efforts.

**General Manager/Senior Hydrologist**, Monterey Peninsula Water Management District, Monterey, California, December 1995 to June 2001. Plan, manage, and oversee activities and operations of the District, including administrative services, planning and engineering, water resources and water demand divisions. The District's annual budget was approximately \$3,000,000 with 25 full-time employees.

**Water Resources Manager/Senior Hydrologist**, Monterey Peninsula Water Management District, Monterey, California, October 1989 to December 1995. Manage programs, services, and staff of the Water Resources Division and serve as Senior Hydrologist. Responsible for development, maintenance, and application of the Carmel Valley Simulation Model (CVSIM) and all data collection programs involving precipitation, streamflow, ground water levels, and water quality. Provided expert testimony before the State Water Resources Control Board at water rights hearing in 1992 and 1994.

**Hydrologist**, National Park Service, Water Resources Division, Water Rights Branch, Fort Collins, Colorado, October 1988 to August 1989. Responsible for the design and direction of studies to quantify instream flow requirements and administrative uses of water for National Park purposes, with special attention to Federal reserved water rights. Prepared materials for use in water rights adjudication proceedings. Study areas included Crater Lake National Park and the Black Canyon of the Gunnison National Monument.

**Senior Hydrologist/Project Manager**, Monterey Peninsula Water Management District, Monterey, California, January 1985 to September 1988. Responsible for all activities -- engineering, economic, and environmental -- related to the completion of the Draft Environmental Impact Report for the New San Clemente Reservoir Project

**Hydrologist**, Montana Department of Natural Resources and Conservation, Water Resources Division, Helena, Montana, September 1981 to January 1985. Responsible for basin-wide water availability estimates and assessment of water management options.

## **DARBY W. FUERST, P.H.**

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### **EDUCATION**

M.S. degree in Water Resources Administration; University of Arizona, Tucson, Arizona, 1979-1983; Thesis on consumer response to urban water shortages; interest in natural resource economics and western water law.

B.S. degree in geological sciences; University of Washington, Seattle, Washington, 1977-1979; Emphasis on fluvial geomorphology.

A.A. degree in mathematics; Cañada College; Redwood City, California, 1976-1977; FORTRAN and BASIC computer languages

B.A. degree in English literature; Occidental College, Los Angeles, California, 1968-1972; Minor in history, junior year at the Institute of International Studies, Vienna, Austria.

### **CERTIFICATION**

Certified and registered as a Professional Hydrologist (No. 1658) with the American Institute of Hydrology.

### **OTHER EXPERIENCE**

U.S. Peace Corps Volunteer, Hurumu, Ethiopia, June 1973 to July 1975. Taught English as a second language, science, history, and geography in a rural middle school.

### **ORGANIZATIONS**

American Water Resources Association  
Groundwater Resources Association of California  
American Geophysical Union

### **CONTINUING EDUCATION**

Irrigation, Montana State University, Bozeman, Montana, April 1984.  
Flood Hydrology (HEC-1), University of California, Davis, California, December 1987.  
Water Rights, National Park Service, Fort Collins, Colorado, March 1989.  
Fracture Rocks: Characterization, Flow and Transport, Costa Mesa, California, 1995  
Special District Board Management, San Diego, California, January 1998  
California Water Law and Policy, San Francisco, California 2004  
Basin Yield and Overdraft: Scientific and Legal Perspectives, Pasadena, California, 2005  
Principles of Groundwater Flow and Transport Modeling, Orange, California, 2006