

## RIVERSIDE EXHIBIT 2-1

### **NICHOLAS F. BONSIGNORE** **PROFESSIONAL RESUME**

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#### **REGISTRATION:**

Civil Engineer, California (License No. 39422)

#### **EDUCATION:**

B.S. Civil Engineering – University of the Pacific – 1982

#### **EXPERIENCE:**

**Wagner & Bonsignore, Consulting Civil Engineers, A Corporation** - Sacramento, California  
Principal - April 1998 to Present

- Acquisition and administration of appropriative water rights pursuant to Title 23 of the California Code of Regulations. Prepare water right applications and interface with the State Water Resources Control Board to obtain permits. Coordinate preparation of supporting environmental documentation to address California Environmental Quality Act requirements.
- Hydrologic analyses in connection with water availability studies and water diversion projects.
- Design of water storage and conveyance facilities including pipelines, pump stations and reservoirs.
- Design of drip irrigation and overhead sprinkler systems for vineyard development.
- Preparation of erosion control and surface water drainage plans for vineyard development.

**James C. Hanson, Consulting Civil Engineer, A Corporation** - Sacramento, California  
Senior Engineer - June 1982 to April 1985, April 1986 to April 1998

- Analyzed and designed embankment dams under jurisdiction of the California Division of Safety of Dams. Projects included new dams as well as alteration and rehabilitation of existing dams. Performed embankment stability analyses on homogeneous and zoned embankments, and hydrologic and hydraulic analyses in connection with design of spillways and other hydraulic structures. Analyzed and designed non-jurisdictional dams and ponds under county regulation.
- Analyzed and designed water supply and transmission facilities including pipelines and pumps (both electric motor and diesel engine driven).

- Resident engineer on dam construction projects. Responsibilities included contract management, inspection and quality control, supervision of surveyors and soils technicians, and interfacing with State inspectors. Individual project construction costs range to \$1.5 million.

**Brown and Caldwell, Consulting Engineers** - Sacramento, California  
Associate Engineer - May 1985 to March 1986

Designed improvements to waste water treatment plants; wrote proposals and planning reports.

**RECENT EXPERIENCE INCLUDES THE FOLLOWING:**

- *Sonoma County Water Agency – North Sonoma County Agricultural Reuse Project:* Presently preparing planning-level designs for reservoirs and pipeline systems for storage and distribution of treated wastewater for agricultural irrigation. The scope of the project involves the reuse of up to 11,200 acre-feet of treated wastewater annually.
- *Stockton East Water District – New Hogan Reservoir Water Right Licensing:* Evaluated 42 years of historic daily operations data for New Hogan Reservoir (Calaveras River) to establish maximum amounts diverted and maximum beneficial use made for the purpose of obtaining licensure of a permit allowing seasonal storage of 325,000 acre-feet and direct diversion of 200 cfs.
- *Juliana Mutual Water Company:* Prepared Engineer’s Report in accordance with State Department of Corporations Regulations for formation of agricultural mutual water company providing an annual water supply of up to 4,000 acre-feet. Assisted Water Company legal counsel with preparation of bylaws and offering circular.
- *Private water company (confidential project) – Reservoir Operations Study:* Safe yield analysis for a proposed 250 acre-foot off-stream storage reservoir to be filled by pumping from a major stream source, for a small water purveyor regulated by the California Public Utilities Commission. Analysis involved evaluation of alternative diversion rates and in-stream bypass conditions to determine optimum operating parameters.
- *Amador Water Agency – Water Right Application:* Prepared water right application in support of a petition for partial assignment of a State-filed water right application for municipal supply. Presently engaged in hydrologic studies of Mokelumne River and tributaries to confirm water availability.
- *Hudson Vineyards – South Pit Reservoir:* Designed 45 acre-foot cut-and-fill reservoir with synthetic liner requiring 50,000 cubic yards of earthwork.
- *Glendale Ranch, Napa County – Water Supply and Fire Protection System:* Designed gravity water supply system involving twin 50,000 gallon bolted steel tanks, 4,600 feet of 8 and 10-inch diameter fire supply pipeline, and 9,000 feet of 4-inch diameter domestic service pipeline; presently providing construction observation and contract management services.

## **CONTINUING EDUCATION:**

“Irrigation System Evaluation”, Irrigation Training and Research Center, Cal Poly, June 2004

“Legally Defensible Environmental Review Under the California Environmental Quality Act”, Lorman Education Services, May 2004

“Fundamentals of Groundwater Hydrology”, UC Berkeley Extension, July 2002

“Vineyard Erosion and Sediment Control Workshop”, San Francisco Bay Regional Water Quality Control Board and other agencies, June 2000

“Drip Irrigation and Water Management of Vines”, University of California, Davis Extension, February 2000

“Understanding Wetlands and 404 Permitting - A Process in Transition”, American Society of Civil Engineers, January 1997

“Working to Save Lives - A Training Course on State of California Excavation Regulations”, American Society of Civil Engineers, Sacramento Section, October 1996

“Pumping Station Design Workshop”, Montana State University, March 1990

“Water Surface Profile Computation Using Computer Program HEC2” on the IBM-PC, University of California, Davis Extension, September 1988

“Flood Plain Hydrology Using Computer Program HEC1 on the IBM-PC”, University of California, Davis Extension, April 1986

“Analysis and Applications of Open Channel and Pressure Flow Systems”, Andrew J. Ranzieri, C.E., Instructor, Spring 1984

## **PROFESSIONAL MEMBERSHIPS AND OTHER ASSOCIATIONS:**

*American Society of Civil Engineers* - Member and past Chairman of the Sacramento Section Water Resources Technical Group, Technical Activities Committee, and Engineering Education Committee

*Association of California Water Agencies* - Associate Member

*American Water Works Association*

*University of the Pacific School of Engineering and Computer Science - Class Secretary for Class of 1982, 2000 to present; presently serving on 25<sup>th</sup> year class reunion committee*

*Park Terrace Swimming and Tennis Club, Sacramento, CA – Presently serving as member of Board of Directors*