



**Classification:** Water Resource Control Engineer  
**Position Number:** 880-300-3846-063

**DUTY STATEMENT**

**CURRENT**       **PROPOSED**

<b>RPA Number:</b> 23-300-145	<b>Classification Title:</b> Water Resource Control Engineer	<b>Position Number:</b> 880-300-3846-063
<b>Incumbent Name:</b> Vacant	<b>Working Title:</b> Hydrologic Ecosystem Modeler	<b>Effective Date:</b> TBD
<b>Tenure:</b> Permanent	<b>Time Base:</b> Full-Time	<b>CBID:</b> R09
<b>Division/Office:</b> Division of Water Rights		<b>Section/Unit:</b> Bay Delta: San Joaquin Unit
<b>Supervisor's Name:</b> Lauren Beaudin		<b>Supervisor's Classification:</b> Senior Environmental Scientist (Supervisory)

<b>Human Resources Use Only:</b>	
<b>HR Analyst Approval:</b>	<b>Date:</b>

<b>General Statement</b>
Under the close supervision of a Senior Environmental Scientist (Supervisory), and consistent with good customer service practices and the goals of the State and Regional Board's Strategic Plan, the incumbent is expected to be courteous and provide timely responses to internal/external customers, follow through on commitments, and to solicit and consider internal/external customer input when completing work assignments.
<b>Position Description</b>
The incumbent performs varied engineering analyses, research, surveying, and modeling assignments related to the San Francisco Bay/Sacramento-San Joaquin Delta Estuary (Bay-Delta). This position is specifically focused on State Water Board regulatory and planning activities in the Bay-Delta. In addition, the incumbent will conduct and/or review hydrologic modeling of California's rivers and streams to investigate how operational changes may affect river flows, river and reservoir temperature, water quality and water rights.



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**Essential Functions (Including percentage of time):**

40%	<p>Assist in Bay-Delta proceedings and projects related to the Bay-Delta Water Quality Control Plan: Develop and evaluate water quality and flow objectives, and programs of implementation, for the Water Quality Control Plan for the Bay-Delta. Evaluate chemical, hydrological, and other related environmental effects of implementing flow and water quality objectives under a variety of scenarios and prepare recommendations. Assist in the preparation and review of environmental documents including Environmental Impact Reports and Substitute Environmental Documents. Serve as primary author for portions of environmental documents related to engineering. Review written public comments, scientific articles and papers, and other external input related to Bay-Delta projects for hydrologic, water quality, water rights, and engineering related issues. Prepare appropriate responses and recommendations related to the information received and determine if and how the information may impact the State Water Board's Bay-Delta program. Assist in the analysis of engineering and environmental data supporting modifications of water quality objectives and other Bay-Delta actions. Review position papers, legislative proposals or other publications which address Bay-Delta related issues. Prepare responses or incorporate the information into the State Water Board's Bay-Delta Program as required. Attend conferences and meetings regarding Bay-Delta issues. Describe and explain the State Water Board's Bay-Delta work to members of State and Federal Agencies, Non-Governmental Organizations, and the general public. Attend training as required to enhance and improve job-related knowledge and skills.</p>
15%	<p>Conduct and/or review hydrologic and water quality modeling of surface water and groundwater systems to investigate how operational changes may affect surface water flows, reservoir storage, river or reservoir temperature, water quality, and underground aquifers. Analyze engineering and operation of proposed and existing projects and prepare written comments that identify and recommend appropriate feasibility studies, mitigation measures, or alternatives as appropriate.</p>
15%	<p>Conduct and/or review numeric modeling of Bay-Delta related non-hydraulic systems potentially involving economics, agricultural development, energy production and climate change.</p>
10%	<p>Work with geographic information system and global positioning system equipment and software as required to document and present information needed for Bay-Delta projects. Prepare and analyze maps and geographic data related to Bay-Delta work.</p>



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10%	<p>Assist with other water right proceedings: Process petitions for actions occurring in the Delta including Petitions for Change, Short-Term Transfer, and Long-Term Transfer. Review petitions and records of the projects involved and related projects and determine compliance with appropriate statutory and regulatory requirements, prepare public notices and oversee mailing of notices, review comments and protests to the public notice, prepare orders approving transfers, and assist hearing staff in conducting hearings regarding water transfers. Evaluate chemical, hydrological, and environmental effects of various actions on the Bay-Delta. Provide assistance to State Water Board enforcement programs within the Bay-Delta. Conduct field work as required to gather information, assist the public, or assist State Water Board enforcement staff.</p>
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**Marginal Functions (Including percentage of time):**

5%	<p>Answer questions from the public related to water rights (phone duty), update and maintain the water rights database (eWRIMS); assist with the development and implementation of contracts with consulting forms to support the preparation of environmental documents.</p>
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5%	<p>Perform other duties as required.</p>
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**Typical Physical Conditions/Demands:**

The job requires extensive use of a personal computer and the ability to sit/stand at a desk, utilize a phone, and type on a keyboard for extended periods of time. Ability to lift 15 pounds, bend and reach above shoulders to retrieve files and/or documents. Occasional travel may be required locally and within the state. Occasionally, navigate in uneven, rugged terrain for extended periods of time in extreme temperatures throughout the workday.

**Typical Working Conditions:**

The incumbent works in a high-rise office building in downtown Sacramento. The work schedule is Monday through Friday. Travel may be required locally and within the state.



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<b>Supervisor Statement</b>		
I certify this duty statement represents an accurate description of the essential functions of this position. I have discussed the duties of this position with the employee and provided the employee a copy of this duty statement.		
Supervisor Name	Supervisor Signature	Date
Employee Name	Employee Signature	Date