

## AARON J. MILLER, P.E.

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### Summary of Qualifications

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#### License

California Professional Civil Engineer, License number C62483

#### Areas of Expertise

Planning activities associated with the operation of the SWP  
Tools and processes used in analyzing water delivery impacts  
Current and future challenges to the operation of the SWP

### Professional Experience

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| June 2006 –<br>Present        | <b>CA Department of Water Resources</b><br><b>Operations and Maintenance – Special Studies</b><br><i>Senior Engineer, Water Resources</i> <ul style="list-style-type: none"><li>• Acting Water Management Branch Chief (2.5 months)</li><li>• Acting Supply Management Section chief (6 months)</li><li>• Department Modeling lead on 2008 OCAP BA</li><li>• Lead the development of updating allocation model</li><li>• Analyzed water supply impacts due to USFWS and NMFS BiOps</li></ul>  | Sacramento CA |
| October 2004 –<br>June 2006   | <b>CA Department of Water Resources</b><br><b>Division of Flood Management – Hydrology</b><br><i>Engineer, Water Resources Range D</i> <ul style="list-style-type: none"><li>• Led the development of a water supply forecasting model</li><li>• Forecasted and issued bulletins in coordination with the National Weather Service on water levels in California's major rivers</li></ul>   | Sacramento CA |
| April 2003 –<br>October 2004  | <b>CA Department of Water Resources</b><br><b>Environmental Services – Suisun Marsh Planning</b><br><i>Engineer, Water Resources Range D</i> <ul style="list-style-type: none"><li>• Led the development of a spatial hydrodynamic and water quality analysis tool set</li><li>• Developed model for Blacklock Restoration project</li><li>• Researched, purchased, and coordinated installation of an ADCP at the Suisun Marsh Salinity Control Gate</li></ul>   | Sacramento CA |
| November 1998 –<br>April 2003 | <b>CA Department of Water Resources</b><br><b>Bay Delta Office – Delta Modeling Section</b><br><i>Engineer, Water Resources Range A-D</i> <ul style="list-style-type: none"><li>• Led the development and maintenance of the particle tracking model</li><li>• Created, ran, analyzed and documented Delta Simulation Model 2 (DSM2) simulations to study and make recommendations for water resources management in the Sacramento-San Joaquin Delta</li><li>• Provided technical advice to inter-disciplinary groups on hydrodynamics, water quality, and particle tracking</li></ul> | Sacramento CA |

## Education

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May 1998      **Humboldt State University**      Arcata CA

- Bachelor of Science in Environmental Resources Engineering

## Publications

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Miller, A. (2003). "Chapter 6: New Behaviors and Control Switches in DSM2-PTM." *Methodology for Flow and Salinity Estimates in the Sacramento-San Joaquin Delta and Suisun Marsh. 24<sup>th</sup> Annual Progress Report to the State Water Resources Control Board.* California Department of Water Resources. Sacramento, CA.

Miller, A. (2003). "Chapter 8: DSM2-HYDRO Binary Output File Reader." *Methodology for Flow and Salinity Estimates in the Sacramento-San Joaquin Delta and Suisun Marsh. 24<sup>th</sup> Annual Progress Report to the State Water Resources Control Board.* California Department of Water Resources. Sacramento, CA.

Miller, A. (2002). "Chapter 2: Particle Tracking Model Verification and Calibration." *Methodology for Flow and Salinity Estimates in the Sacramento-San Joaquin Delta and Suisun Marsh. 23<sup>rd</sup> Annual Progress Report to the State Water Resources Control Board.* California Department of Water Resources. Sacramento, CA.

Miller, A. (2000). "Chapter 5: DSM2 Particle Tracking Model Development." *Methodology for Flow and Salinity Estimates in the Sacramento-San Joaquin Delta and Suisun Marsh. 21<sup>st</sup> Annual Progress Report to the State Water Resources Control Board.* California Department of Water Resources. Sacramento, CA.

## Honors & Professional Affiliations

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California Professional Engineer, #C62483  
CA Department of Water Resources Unit Citation: Real Time Forecasting Team (2002)  
CA Department of Water Resources Unit Citation: Delta Simulation Model 2 (DSM2) Recalibration Project Work Team Interagency Ecological Program (2002)  
California Water & Environmental Modeling Forum  
Humboldt State University Presidential Scholar: Spring '97, Fall '97, and Spring '98

## Computer Experience

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### Applications

DSM2, Word, Excel, Access, PowerPoint, Matlab, R, Visual Studio, Eclipse, Illustrator, Photoshop, Vista, FrontPage, Dreamweaver

### Programming Languages

Java, FORTRAN, Python, C, HTML, XML, Visual Basic

### Operating Systems

Windows, UNIX, Linux