

Irwin Haydock, Ph.D.
11570 Aquamarine Circle
Fountain Valley, CA 92708
Ph: (714) 775-4415
Fax: (714) 775-3283
e-mail: haydocki@aol.com

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Chairperson and Members of CalFed's BDAC:

Thank you for providing this time for public comment. I would appreciate my typed comments being placed in today's minutes so that they might be seen by the millions of interested folks unable to attend, and especially by all BDAC members.

My name is Irwin Haydock. I am here representing a somewhat different constituency, my 4 children and 8 grandchildren. Do the math, this is what much of California's growth is really about. I represent them because they could not be here today; they are at working to pay their day-to-day living costs, or pursuing educational and play goals. I hope my effort will contribute to leaving enough resources behind to satisfy their future need for water, food and a healthy and diverse aquatic environment.

I have survived in California six decades, half stationed in the north and half in the south. Born in Bakersfield, raised in the San Francisco Bay area, educated in state schools and currently living in Orange County. Like my dad, I graduated Redwood City's Sequoia High School. But I enjoyed summers working as a glass bottom boat gondolier in Pacific Grove's famed marine gardens. All this was followed by four undergraduate years at Cal Poly, San Luis Obispo, and twelve eight more in graduate school. I hold a Master's in Marine Science (UOP, 1962) and Doctor of Philosophy in Ecology (UCD, 1968). I also represent one of six generations of California pioneers of which I will subsequently speak.

My avocation for over 40 years has been to study this state's water resources, both salt and fresh, and the possibilities for their conjunctive use by the environment and the human population. This clearly the boon (or bane) of California's most important looming. As a graduate student studying oyster culture in Bays and Estuaries in 1960-61, I was honored to be able to tag along with my professor, Joel W. Hedgpeth, on an invited CFG tour of its recently initiated Delta Project. Over the next decade on the 1970s, I remained in frequent contact with Don Kelly, the projects first manager tasked by DWR to look into the relationship between delta fish and wildlife resources and the just initiated State Water Project. Don was originally given three years to develop a full understanding of this ecosystem complex, in order to appropriately and cost-effectively mitigate all future SWP project impacts. Needless to say, Mr. Kelly was being asked to walk on water, and his efforts to not fall in provide some funny/sad stories on complex government projects.

That initial tour of the delta subsequently led to a life-long reading of historic writings about our continuing north-south (and east-west) water wars. (Recall Mark Twain's "whiskey is for drinking, water for fighting over!"). A decade as chair of the

Huntington Beach Environmental Board brought me tickets to some wonderful MWD tours of SWP facilities, federal CVP and Colorado River projects, the DWP's Los Angeles Aqueduct, and even the highly coveted SCE tour of its Big Creek hydropower complex. Most recently (1995-96) I was honored to serve as one of the scientific TAC members for BDOC, that more limited process to "fix the broken delta" which preceded your own BDAC efforts. This certainly stands out as my own personal favorite experience to date in the continuing saga of California water.

Professionally, I left Davis for my first real job Project Manager of a two-year CFG study seeking solution of Salton Sea problems (now being studied again). This was followed up in a Senior Ecologist's role for the Southern California Coastal Water Research Project (SCCWRP), a three-year study (celebrating its 30th anniversary in 1999) of the effects of humans on the "Ecology of the Southern California Bight." Complex water problems take time just to understand, let alone solve. This provided a natural transition into the last 25 years of my working life. I served as Supervisor (then Manager) of monitoring and research on effects of coastal wastewater discharges carried out by two of this state's largest Sanitation Districts. Los Angeles and Orange County currently serve the wastewater treatment and water reclamation needs of over seven million people. My focus has always been on translating scientific understanding into appropriate regulatory and management decisions protective of the environment and the public's health. This should give you an idea of my education, experience and dedication to good public works.

Now I would like to go back and briefly discuss my own family tree, and to demonstrate how tipify the human reflection on California's waters: past, present and future. I have a lovely slide dramatically illustrating this point, showing a man holding a boy's hand in the background; in the foreground is a list of our six generations of Californians, four still living today. I believe their bios best demonstrate changes water use all of us have witnessed or, at least, read about. Of course, lest history repeat itself, we need to take care that future changes do not exacerbate those of the past. I introduce my family only as example; each in their way contributed hard, honest and honorable work to mold a better California for their offspring.

First, my great grandfather, T.B. Dawson. Following the Donnor Party over the Sierras in 1856, he pioneered the fruit canning industry in San Jose. Fruit pulp eventually led to pollution of South San Francisco Bay and ruination of magnificent runs of salmon and steelhead in local creeks and streams.

Second, my grandfather, Irwin Edgar Pomeroy. He managed the family's orchards in Sunnyvale (now Silicon Valley), growing the best peaches, prunes, apricots, and cherries I have ever tasted. This operation required digging the wells ever deeper which then contributed to ground water depletion and subsequent land subsidence that reduced the Santa Clara Basin capacity for precious and renewable water storage.

Third, my father, John Wesley Haydock. His first job in Redding was to help clear the title for the Shasta Dam, keystone of the Federal Central Valley Project (CVP). He once bragged to me that his job was done so well that the land titles would never be broken, nor the dam either for that matter!

Fourth, myself, Clarence Irwin Haydock. My lifelong passion has been to scientifically know both nature's ways and that of the people, helping both to live in concert with renewable but finite water resources.

Fifth, my son, James Wesley Haydock, is an engineering technician in groundwater remediation; and my daughter, Marina Dee (Haydock) West, is a hydrogeologist dealing with contaminants, water basin science and monitoring. Both work hard in Orange County to clean up some of the messes left by previous generations and to assure these water supplies for future generations.

Sixth, my grandsons, Daniel West, Miles and Ryan Haydock. They all work hard today in play and in schooling, a lull before the storm. I can only predict the next "hot" profession, but I know it's in water because it will be our most critical job-one.

If I could leave you with one lesson I have learned from my own family's experience, it would be that you think "outside-the-box" on water. We must each think as a Californian, not as a southern or northern subspecies, grade or cline. We must consider what can be and what we want to remain of California's aquatic environment, not just about to which stakeholder group we belong. We must first follow Nature's way, not that of a single human species. Anything less will again bring Pogo's cry, "We have met the enemy, and he is us." Some stakeholder group might win one or two water battles, but we would all eventually lose the war. If so, the few survivors might envy the dead.

I found CALFED's attempt to include all linkages (and ecosystem components) refreshing. In Orange County we have taken a similar approach on a smaller scale; we call it "Pines to Palms," and find that it still involves hundreds of relevant stakeholders in an organized way. This leads to my final thought: the process by which watersheds enrich the coastal zone is natural and vital to the overall ecosystem. We can no longer afford the idea that "every drop reaching the sea is wasted!" Nothing could be further from truth, and is conceptually counterproductive to thinking outside-the-box!

Time is running out. CALFED must embrace its task of choosing a scenario that will set the stage for California's Water Future (or not) in the next century. The next stage should involve water experts, and relevant and interested stakeholders. It should heavy up on thinking, on software and hardware, and on already existing data taken lovingly over a long period. Lets save the concrete for the next generation. I suspect that many of us here in the room will not see the end to this important business. I wish you good luck; it is essential that we all be able to live with the outcome.

Again, thank you for this opportunity to present my thoughts.