

Nicole David

Half Moon Bay, CA 94019

San Mateo County Harbor District
Attn: Debbie Nixon, Deputy Secretary to Board
400 Oyster Point Blvd., Suite 300
South San Francisco, CA 94080

May 27, 2013

Dear Board of Commissioners,

I am writing to apply for appointment to fill the current vacancy on the Board of Harbor Commissioners. I am a marine biologist and San Mateo County resident since 1999. As an avid open water swimmer, kayaker, paddle boarder, and naturalist, I have enjoyed the safety and clean water that Pillar Point Harbor provides, thanks to the ongoing efforts of the Harbor District. As an environmental scientist I have studied many issues that are of concern in San Mateo County harbors and I would be delighted to apply this knowledge to support the Board and the harbors.

I have learned how humans are affected by changes in the Bay and the Ocean. I believe that many concerns can be addressed with increased awareness and better information. For example, no one needs to stop eating fish because of mercury. The Harbor District could play an important role in educating the public on safe consumption of seafood and promote the fishing industry, which contributes significantly to the regional economy. With my knowledge and vision I can help to enhance the environmental and commercial success of the harbors.

My areas of expertise include pathogen indicators, stormwater runoff, and water quality in general. Working on solutions that benefit the local community, the environment, and that satisfy regulatory agencies is a challenge that I would be enthusiastic to address.

In the past, I have served on the Board of Directors for the northern California chapter of the Society of Environmental Toxicology and Chemistry, including a 1-year term as president. During those four years and through my 14 years of employment with the San Francisco Estuary Institute I have implemented effective communication strategies and developed strong relationships with county, state, and federal agencies that have prepared me for this position. As one relevant example, I have worked with Harbor Master Scott Grindy on innovative approaches to managing stormwater runoff.

My profession requires the ability to collegially work with leaders in regulatory agencies, regulated communities, universities, and environmental groups to produce unbiased, scientifically sound decisions. If appointed, I would represent the interests of the Harbor District responsibly and diligently and would enjoy serving the local communities, which are fortunate to enjoy the benefits of the Special District.

I appreciate your consideration and look forward to discussing this opportunity with you.

Sincerely,



Nicole David

Curriculum Vitae

Nicole David
Environmental Scientist

Half Moon Bay, CA 94019

Education

1989-1996 University of Berlin: Master of Science in Marine Ecology
Thesis title: "Interaction between *Idotea baltica* (Isopoda) and *Gammarus locusta* (Amphipoda) in Laboratory Cultures".

Work Experience

Feb 1999-
Present San Francisco Estuary Institute / Oakland, CA / Associate Environmental Scientist
Involvement in research of various effects threshold values for the Regional Monitoring Program (RMP), investigated pesticide use patterns and effects, processed trace elements and trace organics data in bivalves, report writing and presentations. Also management of spreadsheet and database applications, as well as Quality Assurance and Quality Control analyses methods.
Furthermore, management of the Grassland Bypass Project, including monthly and quarterly report writing and regular web site updates.
From 2002 to 2005, working with the Aquatic Pesticide Monitoring Program (APMP), leading field work, and conducting studies including potential impacts on fish populations due to mechanical harvesting, as well as potential effects of pesticide use in different environmental scenarios.
2004-current, design and management of water quality projects evaluating pesticide and nutrient concentrations in San Francisco Bay and agricultural drainage water.

1998-2000 Volunteered for the California Academy of Sciences (San Francisco, CA) in the invertebrate zoology department. Responsible for species determination and preservation of marine invertebrates and fish.

May-Nov 1998 Volunteered for the Marine Science Institute in Redwood City (CA) as a counselor for marine education included in school programs and fish data collection in the San Francisco Bay.

Sept.-Nov 1997 Isle of Gozo, Malta, Open Water Scuba Instructor with specialty in The Underwater Naturalist and Marine Education classes.

1989-1998 University of Berlin/University of Bremen/University of Kiel: Technical Assistant for projects concerning Marine-/ Freshwater Ecology and continuing education seminars. Most of them in the area of the Baltic Sea regarding the demand of a fast growing population in Germany related to an adequate protection of a critical brackish water ecosystem. Titles: "Intensive Human Use of Coastal Waters" and "Monitoring Programs for Threatened Ecosystems".

1994-1996 University of Berlin: Research Assistant for marine ecology classes. Class titles: "Marine Invertebrates" and "Habitats of the Baltic Sea and the Mediterranean".

Publications and Technical Reports

David, N., Gluchowski, D.C, Leatherbarrow, J.E, † Yee, D., and L.J. McKee. 2013. Estimation of Loads of Mercury, Selenium, PCBs, PAHs, 1 PBDEs, Dioxins, and Organochlorine Pesticides from the Sacramento-San Joaquin River Delta to San Francisco Bay. Water Environment Research. In Review.

David, N., Lent, M., Leatherbarrow, J., † Yee, D., McKee, L. 2011. Bioretention Monitoring at the Daly City Library. Final Project Report. San Francisco Estuary Institute, Richmond, CA. SFEI Contribution Number 631.

David, N., F. Thomas, and D. Denton. 2011. Comparison of Agricultural Runoff from Organic and Conventional Walnut Orchards. In: Goh, K.S., B.L. Bret, T.L. Potter, and J. Gan (eds.) Pesticide Mitigation Strategies for Surface Water Quality. American Chemical Society, Washington, DC.

David, N. and L. McKee. 2009. Going Organic Project. Final Project Report. San Francisco Estuary Institute, Oakland, CA. SFEI Contribution Number 588.

David, N. 2009. Best Management Practices in Stone Fruit Project. Final Project Report. San Francisco Estuary Institute, Oakland, CA. SFEI Contribution Number 590.

David, N. 2009. Sustainable Cotton Project. Final Project Report. San Francisco Estuary Institute, Oakland, CA. SFEI Contribution Number 592.

David, N., L.J. McKee, A.R. Flegal, C.H. Conaway, D.H. Schoellhamer, N.K. Ganju. Mercury Concentrations and Loads in a Large River System Tributary to San Francisco Bay, California, USA. Environmental Toxicology and Chemistry, Vol. 28, No.10, pp. 2091-2100.

David, N., B. Greenfield, and G. Siemering. 2006. Evaluating Impacts of Lake Maid Plant Control. Journal of Aquatic Plant Management, Vol. 44, pp. 60-66.

Leatherbarrow, J., N. David, B. Greenfield, J. Davis, and J. Oram. 2006. Organochlorine Pesticide Fate in San Francisco Bay, SFEI Publication No. 433

David, N. 2005. San Francisco Estuary Invasive Spartina Project. 2005 Water Quality Monitoring Report. San Francisco Estuary Invasive Spartina Project, Berkeley, CA.

Greenfield, B., N. David, G. Siemering, T. McNabb, D. Spencer, G. Ksander, M. Donovan, P. Liow, W. Chan, S. Shonkoff, S. Andrews, V. Howard, and M. Sytsma. 2005. Aquatic Pesticide Monitoring Program, Non-chemical Alternatives, Year 3 Final Report, SFEI Publication No. 390

David, N. 2004. San Francisco Estuary Invasive Spartina Project. 2005 Water Quality Monitoring Report. San Francisco Estuary Invasive Spartina Project, Berkeley, CA.

David, N., B. Greenfield, J. Hunt, G. Siemering, and M. Wittmann. 2004. Aquatic Pesticide Monitoring Program, Review of Alternative Aquatic Pest Control Methods for California Waters. San Francisco Estuary Institute, Oakland, CA.

Hayworth, J., N. David, and S. Shonkoff. 2004. Bioassessment of Water Bodies Treated with Aquatic Pesticides, SFEI Publication No. 117

Greenfield, B., N. David, and G. Siemering. 2003. A New Research Program on Non-chemical Pest Control in California Waters. San Francisco Estuary Institute, Oakland, CA.

Siemering, G., N. David, J. Hayworth, A. Franz, and F. Malamud-Roam. 2003. Aquatic Pesticide Monitoring Program Literature Review, SFEI Publication No.71

Oros, D. and N. David. 2002. Identification and Evaluation of Unidentified Organic Contaminants in the San Francisco Estuary, SFEI Publication No. 43

David, N., D. Bell, and J. Gold. 2001. Field Sampling Manual for the Regional Monitoring Program for Trace Substances. San Francisco Estuary institute, Oakland, CA.

Symposia

David, N., D. Yee, and L. McKee. 2012. Overview of Urban and Agricultural Stormwater Treatment Projects. Invited oral presentation at SETAC North America Annual Meeting in Long Beach, CA.

David, N., L. McKee, and J. Leatherbarrow. 2011. Mercury and Sediment Transport to North San Francisco Bay. Poster presentation at 10th International Conference on Mercury as a Global Pollutant in Halifax, Nova Scotia, Canada.

David, N. Green Infill for Clean Stormwater. Presented at CWEA Annual Meeting in Santa Clara, CA.

David, N. Green Infill for Clean Stormwater. Presented at CASQA Annual Meeting in Palm Desert, CA.

David, N. Green Infill for Clean Stormwater. Invited presentation at CASQA Quarterly Meeting in Oakland, CA.

David, N. 2010. Green Infill for Clean Stormwater. Invited presentations at Alameda, San Mateo, and Santa Clara County Water Pollution Prevention Program C-3 Workshops.

David, N. and F. Thomas. 2010. Comparison of Agricultural Runoff from Organic and Conventional Walnut Orchards. Invited oral presentation at American Chemical Society National Meeting in San Francisco, CA.

David, N., L. McKee, and J. Krebs. 2009. Green Infill for Clean Stormwater. Poster presentation at State of the Estuary Conference, Oakland, CA.

David, N. and F. Thomas. 2009. Comparison of Agricultural Runoff between Organic Farming and Conventional Chemical Farming. Presented at NorCal SETAC Meeting in Davis, CA.

David, N., M.C.S. Eacock, J.C. McGahan, W.N. Beckon. 2008. Agricultural Drainage Through The Grassland Bypass Project. Poster presented at SETAC North America, Tampa, FL.

David, N., F. Thomas, and M. Gibbs. 2007. Comparison of Agricultural Run-off between Biological Farming and Conventional Chemical Farming. Presented at SETAC North America, Milwaukee, WI.

David, N., F. Thomas, and M. Gibbs. 2007. Comparison of Agricultural Run-off between Biological Farming and Conventional Chemical Farming. Poster presented at 2007 National Conference on Agriculture & the Environment, Monterey, CA.

David, N., L. McKee, J. Leatherbarrow. 2006. Riverine Transport of Sediment and Mercury to North San Francisco Bay. Poster presented at SETAC North America, Montreal, Canada.

David, N., L. McKee, R. Flegal, C. Connoway. 2006. Transport of Sediment and Mercury to North San Francisco Bay. Presented at CalFed Science Conference, Sacramento, CA.

David, N., L. McKee, R. Flegal, C. Connoway. 2006. Contaminant Loads from the Delta. Presented at the RMP Annual Meeting, Oakland, CA.

David, N., L. McKee, J. Leatherbarrow. 2006. Riverine Transport of Sediment and Mercury to North San Francisco Bay. Poster presented at National Monitoring Conference, San Jose, CA.

David, N., C. Eacock, and W. Beckon. 2006. Grassland Bypass Project – The Seventh Year of Watershed Management in the Grassland Basin. Poster presented at NorCal SETAC Annual Meeting, Davis, CA.

David, N., L. McKee, J. Leatherbarrow. 2005. Mercury Concentrations Entering San Francisco Bay through the Sacramento River. Poster presented at SETAC North America, Baltimore, MA.

David, N., C. Eacock, J. McGahan, and W. Beckon. 2005. Control of Agricultural Drainage Water and Restoration of Wetland Water Supply Channels. Poster presented at NorCal SETAC Annual Meeting, Berkeley, CA.

David, N., J. Hayworth, B. Greenfield, and G. Siemering. 2004. Assessing Water Quality Effects of Aquatic Weed Control Methods. Presented at SETAC North America, Portland, OR

David, N., B. Greenfield, and G. Siemering. 2003. Aquatic Pesticide Monitoring Program – Non-Chemical Aquatic Plant Control. Presented at NorCal Society of Environmental Toxicology and Chemistry, Annual Meeting, Berkeley, CA.

Professional Training and Affiliations

2006-2007 President of NorCal SETAC Chapter

2004-2007 Society of Environmental Toxicology and Chemistry, Northern California Chapter Board of Directors.

1997 Professional Association of Diving Instructors (PADI): Open Water Scuba Instructor (OWSI).

1993 Scientific Diver certificate, according to the Guidelines for The Employment of Scientific Divers.

Languages: German and English