# Ken Schiff

Deputy Director
Administration
Southern California Coastal Water Research Project

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# Education

M.S., biology, California State University, Long Beach. 1988

B.S., biology, California State University, San Diego. 1984

# Professional Experience

Deputy Director, Southern California Coastal Water Research Project. Costa Mesa, CA. 1995-present

Instructor, California State University, San Marcos. San Marcos, CA. 1995-1996

Senior Scientist, Kinnetic Laboratories, Inc. Carlsbad, CA. 1991-1995

Assistant Environmental Specialist, Southern California Coastal Water Research Project. Long Beach, CA. 1988-1991

Marine Biologist, Channel Islands National Park Service. Ventura, CA. 1987-1988

Teaching Assistant/Intern Coordinator, California State University, Long Beach. Long Beach, CA. 1985-1988

Biologist Intern, State of California Department of Fish and Game. Los Alamitos, CA. 1984-1985

Independent Marine Technician. 1984-1988

- Scripps Institute of Oceanography/National Marine Fisheries Service
- USC/Harbors Environmental Project
- Los Angeles County Sanitation Districts
- Southern California Ocean Studies Consortium

- Molecular Ecology Institute

# Honors and Awards

Academic Scholarship, Southern California Ocean Studies Consortium
First Annual Marine Biology Alumni Award 2006

# Professional Appointments

Editor, Marine Pollution Bulletin (2012-2025)
National Watershed Research Council, Center for Watershed Protection (2021-present)
NOAA National Status and Trends Review Committee, West Coast Data Portal (2023-present)
Independent Technical Review Committee, Los Angeles River Zinc Water Quality Objective Recalculation (2023-2025)
Technical Review Committee, Dominguez Channel Emergency Response Event (2021)
Technical Reviewer, West Point Sewage Treatment Plant Impacts on Puget Sound, King County Department of Natural Resources (2021)
Technical Review Committee, Los Angeles County Flood Control District, Watershed Management Model System (2019-2022)
Technical Review Committee, Site-Specific Objectives development for Human *Bacteroides* HF183, San Diego Regional Water Quality Control Board (2019-2021)
Technical Review Committee, Los Angeles County Flood Control District, Surface Water-Groundwater Study (2020-present)
Expert Panel, King County Swimming Beach Fecal Contamination Study (2019-2021)
Expert Reviewer, National Academy of Sciences Panel on Industrial Stormwater General Permit Discharges (2019)
Technical Advisory Committee, Industrial Environmental Association Stormwater Methods Evaluation (2018-2019)
Marine Protected Area Roundtable Expert; University of California Irvine, School of Law, Center for Land, Environment, and Natural Resources; (2016-2017)
Member (alternate), California Water Quality Monitoring Council (2014-2021)
Guest Editor, Regional Studies in Marine Science (2014-2016)
Chair, Southern California Bight Regional Marine Monitoring Executive Advisory Committee (2002-present)
Chair, Southern California Bight Regional Marine Monitoring Contaminant Impact Assessment Planning Committee (2002-present)
Executive Management Committee, Southern California Stormwater Monitoring Coalition (2001-present)
Expert Panel on Water Quality Monitoring and Assessment, King County Washington, (2013-2017)

Dean’s Advisory Council, Department of Natural Resources, California State University Fullerton (2010-2016)
Editor, SCCWRP Annual Report (2011, 2013)

National Conference Planning Committees:
American Society of Civil Engineers, Environmental & Water Resources Institute
National Stormwater Conference, Center for Watershed Protection (2018-2024)
International Water Association (IWA) Diffuse Pollution Conference (2017)
California Stormwater Quality Association (CASQA) Annual Conference (2015-2020)
Society of Environmental Toxicology and Chemistry North America Annual Meeting (SETAC) (2012)
Water Environment Research Foundation (WERF) Total Maximum Daily Load Specialty Conference (2007, 2011)
National Water Quality Monitoring Conference (2019)

University Review Committee, California State University Long Beach Institute for Integrated Research, Materials, Environment and Society (IIRMES) (2009)
President, Society of Toxicology and Chemistry, Southern California Chapter (2006-2008)
State Water Resources Control Board, Expert Panel on Natural Water Quality (2005-2007)
Governing Board, Society of Toxicology and Chemistry, Southern California Chapter (2004-2006)
State Water Resources Control Board, Blue Ribbon Panel on Numeric Effluent Limits for Stormwater Discharges (2002-04)
NOAA National Status and Trends Review Committee (2001)
Cooperative Institute for Coastal and Environmental Technology, Review Committee (2000)
California SeaGrant, Review Committee Member (2000)
Southern California Society of Environmental Toxicology and Chemistry Student Grant Award, Review Committee Member (2006-present)
Journal Reviewer (Marine Pollution Bulletin, Environmental Science &Technology, Water Research, Science of the Total Environment, Journal American Water Resources Association, Marine Environmental Research, Marine Biology, Water, Urban Water, Southern California Academy of Sciences, Regional Studies in Marine Science, Water Environmental Research, Journal of Sustainability)

# Professional Societies and Certifications

American Society of Civil Engineering
International Water Association
American Water Resources Association
Water Environment Federation
Society of Environmental Toxicology and Chemistry and Southern California/Southwest Chapter

Center for Watershed Protection
Southern California Association of Marine Invertebrate Taxonomists
Southwestern Association of Freshwater Invertebrate Taxonomists
Southern California Association of Ichthyologists and Ecologists
Southern California Academy of Sciences
U.S. Coast Guard Small Boat Handler
NAUI Scuba Diver, Research Scuba Diver
OSHA Enclosed Space Entry
IWSSA Senior Windsurf Instructor
American Red Cross (CPR, Adv First Aid, Adv Lifesaving, WSI, Offshore Survival)

# Journal Articles

Sleugh, T., L. McGill, R. Swalethorp, K. Green, B.S. Talwar, C.S. Wong, W. Lao, K.C. Schiff, B.X. Semmens. 2026. Beyond catch location, individual fish traits add little predictive power for DDX and PCBs in Southern California sport fishes. *Marine Pollution Bulletin* 234:120550.

Gray, J., E. Fassman-Beck, K.L. Cheng, R. Biller, K.C. Schiff. 2026. Frequency of Maintenance Needs in Biofilters throughout Los Angeles. *Journal of Sustainable Water in the Built Environment* DOI:10.1061/JSWBAY.SWENG-725.

Ryan, A.C., R.C. Santore, K.C. Schiff. 2026. An Updated Unified Zinc Biotic Ligand Model for Protection of Freshwater Aquatic Life and its Application for Site-Specific Water Quality Objectives. *Integrated Environmental Assessment and Management* DOI:10.1093/inteam/vjag031.

Schiff, K.C., L.L. Tiefenthaler, J. Westfall, M. Mori, K. Kelly, R. Kempster, A. Latker, E. Moon, N. Searing, D. Tang, J. Bennett. 2026. Quantifying ocean monitoring effort and cost in the Southern California Bight over the last 25 years. *Journal of Environmental Management* 397:128383.

Fassman-Beck, E., E.D. Tiernan, K.L. Cheng, K.C. Schiff. 2025. A data-driven index for evaluating BMP water quality performance. *Water Research* 282:123769.

Steele, J.A., A.G. Zimmer-Faust, T.J. Clerkin, A. Gonzalez-Fernandez, S.A. Lowry, A.D. Blackwood, K. Raygoza, K. Langlois, A.B. Boehm, R.T. Noble, J.F. Griffith, K.C. Schiff. 2025. Survey of pathogens and human fecal markers in stormwater across a highly populated urban region. *Environmental Science: Processes & Impacts* 27:1354-1367.

Lowry, S.A., J.A. Steele, J.F. Griffith, K.C. Schiff, A.B. Boehm. 2025. Simulated gastrointestinal risk from recreational exposure to Southern California stormwater and relationship to human-associated Bacteroidales marker HF183. *Environmental Science: Processes & Impacts*

DOI:10.1039/d4em00577e.

Griffith, J.F., J.A. Steele, A. Gonzalez-Fernandez, K.C. Schiff. 2025. Towards quantifying exfiltration from in situ sanitary sewer pipes. *Frontiers in Environmental Science* DOI:10.3389/fenvs.2024.1458146.

Steele, J.A., A. Gonzalez-Fernandez, J.F. Griffith, D. Ebentier McCargar, S. Wallace, K.C. Schiff. 2025. Extrapolating empirical measurements of wastewater exfiltration from sanitary sewers to estimate watershed-scale fecal pollution loading in urban stormwater runoff. *Frontiers in Environmental Science* DOI:10.3389/fenvs.2024.1458153.

McGill, L., T. Sleugh, C. Petrik, K.C. Schiff, K. McLaughlin, L. Aluwihare, B. Semmens. 2024. The persistent DDT footprint of ocean disposal, and ecological controls on bioaccumulation in fishes. *Proceedings of the National Academy of Sciences* 121:2401500121.

Schiff, K.C., A. Zimmer-Faust, D. Nguyen, J.F. Griffith, J.A. Steele, D.E. McCargar, S. Wallace. 2024. Using HF183 to Estimate Watershed-Wide Annual Loadings of Human Fecal Pollution from Onsite Wastewater Treatment Systems. *Sustainability* 16:9503.

Hinds, J.B., T. Garg, S. Hutmacher, A. Nguyen, Z. Zheng, J.F. Griffith, J.A. Steele, A. Gonzalez Fernandez, K.C. Schiff. 2024. Assessing the defecation practices of unsheltered individuals and their contributions to microbial water quality in an arid, urban watershed. *Science of the Total Environment* 920:170708.

McLaughlin, K., R.D. Mazor, M. Sutula, K.C. Schiff. 2023. Regional assessment of trash in Southern California coastal watersheds, United States. *Frontiers in Environmental Science* 11:1210201.

Schiff, K.C., J.F. Griffith, J.A. Steele, A.G. Zimmer-Faust. 2023. Dry and Wet Weather Survey for Human Fecal Sources in the San Diego River Watershed. *Water* 15:2239.

Wade, T.J., B.F. Arnold, K.C. Schiff, J.M. Colford Jr, S.B. Weisberg, J.F. Griffith, A.P. Dufour. 2022. Health risks to children from exposure to fecally-contaminated recreational water. *PLOS One* DOI:10.1371/journal.pone.0266749.

Du, B., W. Lao, C.S. Wong, K. McLaughlin, K.C. Schiff. 2021. Scrutinizing surficial sediment along a 600-km-long urban coastal zone: Occurrence and risk assessment of fipronil and its three degradates. *Science of the Total Environment* DOI:10.1016/j.scitotenv.2021.151071.

McLaughlin, K., J. Davis, A. Bonnema, B. Du, G. Ichikawa, W. Jakl, W. Heim, K.C. Schiff. 2021. Regional assessment of contaminant bioaccumulation in sport fish tissue in the Southern California Bight, USA. *Marine Pollution Bulletin* DOI:10.1016/j.marpolbul.2021.112798.

Gillett, D.J., L. Gilbane, K.C. Schiff. 2021. Characterizing Community Structure of Benthic Infauna From the Continental Slope of the Southern California Bight. *Frontiers in Marine Science* DOI:10.3389/fmars.2021.605858/full.

Schiff, K.C., S.M. Bay. 2020. In Memorium: Donald J Reish. *Zoosymposia* DOI:10.11646/zoosymposia.19.1.4.

Zimmer-Faust, A.G., J.A. Steele, J.F. Griffith, K.C. Schiff. 2020. The challenges of microbial source tracking at urban beaches for Quantitative Microbial Risk Assessment (QMRA). *Marine Pollution Bulletin* DOI:10.1016/j.marpolbul.2020.111546.

Tirpak, R.A., N. Afrooz, R.J. Winston, R. Valenca, K.C. Schiff, S.K. Mohanty. 2020. Conventional and amended bioretention soil media for targeted pollutant treatment: A critical review to guide the state of the practice. *Water Research* DOI:10.1016/j.watres.2020.1166480.

Gillett, D.J., L. Gisbane, K.C. Schiff. 2020. Benthic habitat condition of the continental shelf surrounding oil and gas platforms in the Santa Barbara Channel, Southern California. *Marine Pollution Bulletin* DOI:10.1016/j.marpolbul.2020.111662.

DeFlorio-Barker, S., D. Holman, R. Landolfi, B.F. Arnold, J.M. Colford, S.B. Weisberg, K.C. Schiff, E.A. Sams, T.J. Wade. 2020. Incidence and public health burden of sunburn among beachgoers in the United States. *Preventive Medicine* DOI:10.1016/j.ypmed.2020.106047.

Beck, M., R.D. Mazor, S. Theroux, K.C. Schiff. 2019. The Stream Quality Index: A multi-indicator tool for enhancing environmental management. *Environmental and Sustainability Indicators* DOI:10.1016/j.indic.2019.100004.

Coates, J., K.C. Schiff, R.D. Mazor, D.J. Pondella II, R.A. Schaffner, E. Whiteman. 2018. Development of a biological condition assessment index for shallow, subtidal rocky reefs in Southern California, USA. *Marine Ecology* DOI:10.1111/maec.12471.

Clatterbuck, C.A., R.L. Lewison, N.G. Dodder, C. Zeeman, K.C. Schiff. 2018. Seabirds as regional biomonitors of legacy toxicants on an urbanized coastline. *Science of the Total Environment* DOI:10.1016/j.scitotenv.2017.

Steele, J.A., A.D. Blackwood, J.F. Griffith, R.T. Noble, K.C. Schiff. 2018. Quantification of pathogens and markers of fecal contamination during storm events along popular surfing beaches in San Diego, California. *Water Research* 136:137-149.

Arnold, B.F., K.C. Schiff, A. Ercumen, J. Benjamin-Chung, J.A. Steele, J.F. Griffith, S.J. Steinberg, P.D. Smith, C.D. McGee, R. Wilson, C. Nelsen, S.B. Weisberg, J.M. Colford Jr. 2017. Acute Illness Among Surfers After Exposure to Seawater in Dry- and Wet-Weather Conditions. *American Journal of Epidemiology* 186:866-875.

Benjamin-Chung, J., B.F. Arnold, T.J. Wade, K.C. Schiff, J.F. Griffith, A.P. Dufour, S.B. Weisberg, J.M. Colford Jr. 2017. Coliphages and gastrointestinal illness in recreational waters: pooled analysis of six coastal beach cohorts. *Epidemiology* 28:644-652.

Soller, J.A., M. Schoen, J.A. Steele, J.F. Griffith, K.C. Schiff. 2017. Incidence of gastrointestinal illness following wet weather recreational exposures: Harmonization of quantitative microbial risk assessment with an epidemiologic investigation of surfers. *Water Research* 121:280-289.

DeFlorio-Barker, S., B.F. Arnold, E.A. Sams, A.P. Dufour, J.M. Colford Jr, S.B. Weisberg, K.C. Schiff, T.J. Wade. 2017. Child environmental exposures to water and sand at the beach: Findings from studies of over 68,000 subjects at 12 beaches. *Journal of Exposure Science and Environmental Epidemiology* DOI:10.1038/jes.2017.23.

Davis, J.A., J.R.M. Ross, S. Bezalel, L. Sim, A. Bonnema, G. Ichikawa, W.A. Heim, K.C. Schiff, C.A. Eagles-Smith, J.T. Ackerman. 2016. Hg concentrations in fish from coastal waters of California and Western North America. *Science of the Total Environment* 568:1146-1156.

Schiff, K.C., P.R. Trowbridge, E.T. Sherwood, P. Tango, R.A. Batiuk. 2016. Regional monitoring programs in the United States: Synthesis of four case studies from Pacific, Atlantic, and Gulf Coasts. *Regional Studies in Marine Science* 4:A1-A7.

Ode, P.R., A.C. Rehn, R.D. Mazor, K.C. Schiff, E.D. Stein, J.T. May, L.R. Brown, D.B. Herbst, D.J. Gillett, K. Lunde, C.P. Hawkins. 2016. Evaluating the adequacy of a reference-site pool for ecological assessments in environmentally complex regions. *Freshwater Science* 35:237-248.

Mazor, R.D., A.C. Rehn, P.R. Ode, M. Engeln, K.C. Schiff, E.D. Stein, D.J. Gillett, D.B. Herbst, C.P. Hawkins. 2016. Bioassessment in complex environments: designing an index for consistent meaning in different settings. *Freshwater Science* 35:249-271.

Arnold, B.F., T.J. Wade, J. Benjamin-Chung, K.C. Schiff, J.F. Griffith, A.P. Dufour, S.B. Weisberg, J.M. Colford Jr. 2016. Acute Gastroenteritis and Recreational Water: Highest Burden Among Young US Children. *American Journal of Public Health* 9:1690-1697.

Griffith, J.F., S.B. Weisberg, B.F. Arnold, Y. Cao, K.C. Schiff, J.M. Colford Jr. 2016. Epidemiologic evaluation of multiple alternate microbial water quality monitoring indicators at three California beaches. *Water Research* 94:371-381.

Sato, K.N., L.A. Levin, K.C. Schiff. 2016. Habitat compression and expansion of sea urchins in response to changing climate conditions on the California continental shelf and slope (1994-2013). *Deep-Sea Research II* 137:377-389.

Schiff, K.C., L.L. Tiefenthaler, S.M. Bay, D.J. Greenstein. 2016. Effects of Rainfall Intensity and Duration on the First Flush from Parking Lots. *Water* 8:320.

Schiff, K.C., J.S. Brown, S. Trump, D. Hardin. 2016. Near-Coastal Water Quality at Reference Sites Following Storm Events. *Marine Pollution Bulletin* 103:294-300.

Schiff, K.C., D.J. Greenstein, N. Dodder, D.J. Gillett. 2015. Southern California Bight regional monitoring. *Regional Studies in Marine Science* 4:34-46.

May, J.T., L.R. Brown, A.C. Rehn, I.R. Waite, P.R. Ode, R.D. Mazor, K.C. Schiff. 2015. Correspondence of biological condition models of California streams at statewide and regional scales. *Environmental Monitoring and Assessment* 187:4086.

Pondella II, D.J., J.P. Williams, J. Claisse, R.A. Schaffner, K. Ritter, K.C. Schiff. 2015. The Physical Characteristics of Nearshore Rocky Reefs in The Southern California Bight. *Bulletin of the Southern California Academy of Sciences* 114:105-122.

Schiff, K.C., B. Luk, D. Gregorio. 2015. Impact of Stormwater Discharges on Water Quality in Coastal Marine Protected Areas. *Water Environment Research* 87:772-782.

Yau, V.M., K.C. Schiff, B.F. Arnold, J.F. Griffith, J.S. Gruber, C.C. Wright, T.J. Wade, S. Burns, J.M. Hayes, C. McGee, M. Gold, Y. Cao, A.B. Boehm, S.B. Weisberg, J.M. Colford Jr. 2014. Effect of submarine groundwater discharge on bacterial indicators and swimmer health at Avalon Beach, CA, USA. *Water Research* 59:23-36.

Mazor, R.D., E.D. Stein, P.R. Ode, K.C. Schiff. 2014. Integrating intermittent streams into watershed assessments: applicability of an index of biotic integrity. *Freshwater Science* 33:459-474.

Rogowski, P.A., E. Terrill, K.C. Schiff, S.Y. Kim. 2014. An assessment of the transport of southern California stormwater ocean discharges. *Marine Pollution Bulletin* 90:135-142.

Sapozhnikova, Y., E. Wirth, K.C. Schiff, M. Fulton. 2013. Antifouling biocides in water and sediments from California marinas. *Marine Pollution Bulletin* 69:189-194.

Greenstein, D.J., S.M. Bay, M. Jacobe, C. Barton, K. Sakamoto, D. Young, K. Ritter, K.C. Schiff. 2013. Regional assessment of marine and estuarine sediment toxicity in Southern California, USA. *Environmental Monitoring and Assessment* 185:2055-2065.

Arnold, B.F., K.C. Schiff, J.F. Griffith, J.S. Gruber, V. Yau, C.C. Wright, T.J. Wade, S. Burns, J.M. Hayes, C. McGee, M. Gold, Y. Cao, S.B. Weisberg, J.M. Colford Jr. 2013. Swimmer illness associated with marine water exposure and water quality indicators: Impact of widely used assumptions. *Epidemiology* 24:845-853.

Colford Jr, J.M., K.C. Schiff, J.F. Griffith, V. Yau, B.F. Arnold, C.C. Wright, J.S. Gruber, T.J. Wade, S. Burns, J. Hayes, C. McGee, M. Gold, Y. Cao, R.T. Noble, R. Haugland, S.B. Weisberg. 2012.

Using rapid indicators for Enterococcus to assess the risk of illness after exposure to urban runoff contaminated marine water. *Water Research* 46:2176-2186.

Miller, E.F., K.C. Schiff. 2012. Descriptive trends in SCB demersal fish assemblages since 1994. *California Cooperative Oceanic Fisheries Investigations Reports* 53:107-131.

Dodder, N.G., K.A. Maruya, G.G. Lauenstein, J. Ramirez, K.J. Ritter, K.C. Schiff. 2012. Distribution and sources of polybrominated diphenyl ethers in the southern California Bight. *Environmental Toxicology and Chemistry* 31:2239-2245.

Lao, W., L.L. Tiefenthaler, D.J. Greenstein, K.A. Maruya, S.M. Bay, K. Ritter, K.C. Schiff. 2012. Pyrethroids in southern California coastal sediments. *Environmental Toxicology and Chemistry* 31:1649-1656.

Gillett, D.J., D.J. Pondella II, J. Freiwald, K.C. Schiff, J.E. Caselle, C. Shuman, S.B. Weisberg. 2012. Comparing volunteer and professionally collected monitoring data from the rocky subtidal reefs of Southern California, USA. *Environmental Monitoring and Assessment* 184:3239-3257.

Converse, R.R., J.F. Griffith, R.T. Noble, R.A. Haugland, K.C. Schiff, S.B. Weisberg. 2012. Correlation between quantitative polymerase chain reaction and culture-based methods for measuring Enterococcus over various temporal scales and three California marine beaches. *Applied and Environmental Microbiology* 78:1237-1242.

Schiff, K.C., B. Luk, D. Gregorio, S. Gruber. 2011. Assessing water quality in Marine Protected Areas from Southern California, USA. *Marine Pollution Bulletin* 62:2780-2786.

Tiefenthaler, L.L., E.D. Stein, K.C. Schiff. 2011. Levels and patterns of fecal indicator bacteria in stormwater runoff from homogenous land use sites and urban watersheds. *Journal of Water and Health* 9:279-290.

Schiff, K.C., L.L. Tiefenthaler. 2011. Seasonal flushing of pollutant concentrations and loads in urban stormwater. *Journal of the American Water Resources Association* 47:136-142.

Ranasinghe, J.A., K.C. Schiff, D.E. Montagne, T.K. Mikel, D.B. Cadien, R.G. Velarde, C.A. Brantley. 2010. Benthic macrofaunal community condition in the Southern California Bight, 1994-2003. *Marine Pollution Bulletin* 60:827-833.

Griffith, J.F., K.C. Schiff, G.S. Lyon, J.A. Fuhrman. 2010. Microbiological water quality at non-human influenced reference beaches in southern California during wet weather. *Marine Pollution Bulletin* 60:500-508.

Mazor, R.D., K.C. Schiff, K. Ritter, A. Rehn, P. Ode. 2010. Bioassessment tools in novel habitats: An evaluation of indices and sampling methods in low-gradient streams in California.

*Environmental Monitoring and Assessment* 167:91-104.

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Maruya, K.A., K.C. Schiff. 2009. The extent and magnitude of sediment contamination in the Southern California Bight. *The Geological Society of America* 454:399-412.

Sabin, L.D., K.C. Schiff. 2008. Dry atmospheric deposition rates of metals along a coastal transect in southern California. *Atmospheric Environment* 42:6606-6613.

Tiefenthaler, L.L., E.D. Stein, K.C. Schiff. 2008. Watershed and land use-based sources of trace metals in urban stormwater. *Environmental Toxicology and Chemistry* 27:277-287.

Jarvis, E., K.C. Schiff, L. Sabin, M.J. Allen. 2007. Chlorinated hydrocarbons in pelagic forage fishes and squid of the Southern California Bight. *Environmental Toxicology and Chemistry* 26:2290-2298.

Sapozhnikova, Y., E. Wirth, K.C. Schiff, J.S. Brown, M. Fulton. 2007. Antifouling pesticides in the coastal waters of southern California. *Marine Pollution Bulletin* 54:1972-1978.

Schiff, K.C., J.S. Brown, D.W. Diehl, D.J. Greenstein. 2007. Extent and magnitude of copper contamination in marinas of the San Diego region, California, USA. *Marine Pollution Bulletin* 54:322-328.

Colford Jr, J.M., T.J. Wade, K.C. Schiff, C.C. Wright, J.F. Griffith, S.K. Sandhu, S. Burns, M. Sobsey, G. Lovelace, S.B. Weisberg. 2007. Water quality indicators and the risk of illness at beaches with nonpoint sources of fecal contamination. *Epidemiology* 18:27-35.

Schiff, K.C., B. Bax, P. Markle, T. Fleming, J. Newman. 2007. Wet and dry weather toxicity in the San Gabriel River. *Bulletin of the Southern California Academy of Sciences* 160:179-192.

Noble, R.T., J.F. Griffith, A.D. Blackwood, J.A. Fuhrman, J.B. Gregory, X. Hernandez, X. Liang, A.A. Bera, K.C. Schiff. 2006. Multitiered approach using quantitative PCR to track sources of fecal pollution affecting Santa Monica Bay, California. *Applied and Environmental Microbiology* 72:1604-1612.

Stein, E.D., L.L. Tiefenthaler, K.C. Schiff. 2006. Watershed-based sources of polycyclic aromatic hydrocarbons in urban storm water. *Environmental Toxicology and Chemistry* 25:373-385.

Sabin, L.D., J.H. Lim, K.D. Stolzenbach, K.C. Schiff. 2006. Atmospheric dry deposition of trace

metals in the coastal region of Los Angeles, California, USA. *Environmental Toxicology and Chemistry* 25:2334-2341.

Lim, J.H., L.D. Sabin, K.C. Schiff, K.D. Stolzenbach. 2006. Concentration, size distribution, and dry deposition rate of particle-associated metals in the Los Angeles region. *Atmospheric Environment* 40:7810-7823.

Sabin, L.D., J.H. Lim, M.T. Venezia, A.M. Winer, K.C. Schiff, K.D. Stolzenbach. 2006. Dry deposition and resuspension of particle-associated metals near a freeway in Los Angeles. *Atmospheric Environment* 40:7528-7538.

Zeng, E.Y., D. Tsukada, D.W. Diehl, J. Peng, K.C. Schiff, J. Noblet, K.A. Maruya. 2005. Distribution and mass inventory of total dichlorodiphenyldichloroethylene in the water column of the Southern California Bight. *Environmental Science and Technology* 39:8170-8176.

Ackerman, D., E.D. Stein, K.C. Schiff. 2005. Dry-season water quality in the San Gabriel River watershed. *Bulletin of the Southern California Academy of Sciences* 104:125-145.

Sabin, L.D., J.H. Lim, K.D. Stolzenbach, K.C. Schiff. 2005. Contribution of trace metals from atmospheric deposition to stormwater runoff in a small impervious urban catchment. *Water Research* 39:3929-3937.

Ackerman, D., K.C. Schiff, S.B. Weisberg. 2005. Evaluating HSPF in an arid, urbanized watershed. *Journal of the American Water Resources Association* 41:477-486.

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Kamer, K., P. Fong, R. Kennison, K.C. Schiff. 2004. Nutrient limitation of macroalga Enteromorpha intestinalis collected along a resource gradient in a highly eutrophic estuary. *Estuaries* 27:201-208.

Lu, R., R.P. Turco, K. Stolzenbach, S.K. Friedlander, C. Xiong, K.C. Schiff, L.L. Tiefenthaler, G. Wang. 2003. Dry deposition of airborne trace metals on the Los Angeles basin and adjacent coastal waters. *Journal of Geophysical Research* 108:11.1-11.24.

Schiff, K.C., J. Morton, S.B. Weisberg. 2003. Retrospective evaluation of shoreline water quality along Santa Monica Bay beaches. *Marine Environmental Research* 56:245-253.

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Schiff, K.C., S.M. Bay, D.W. Diehl. 2003. Stormwater toxicity in Chollas Creek and San Diego Bay, California. *Environmental Monitoring and Assessment* 81:119-132.

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