

Ken Schiff

Deputy Director

Administration

Southern California Coastal Water Research Project

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
Academic Research Grant, Los Angeles County Department of Fish and Game
Academic Honors, California State University, Long Beach
Deans' List, California State University, Long Beach and San Diego
Outstanding Intern Award, California State University, Long Beach
Water Quality Award for Research, Los Angeles Regional Water Quality Control Board
President, Society of Toxicology and Chemistry, Southern California Chapter
Treasurer/Founding Member, Southwestern Association of Freshwater Invertebrate Taxonomists
Founding Member, Southern California Association of Ichthyologists and Ecologists
Vice-Chair, Treasurer, Founding Member, Southern California Stormwater Monitoring Coalition
California State University Long Beach, Distinguished Alumni 1st Annual Honor Award
Vision Award, National Water Quality Monitoring Council

Professional Appointments

Editor, Marine Pollution Bulletin (2012-present)
Reviewer, National Academy of Sciences Panel on Industrial Stormwater General Permit Discharges
Reviewer, Industrial Environmental Association Stormwater Methods Evaluation
Marine Protected Area Roundtable Expert; University of California Irvine, School of Law, Center for Land, Environment, and Natural Resources; (2016 - 2017)
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)
Co-Chair, Southern California Bight Regional Marine Monitoring Marine Protected Area Planning Committee (2002-present)
Chair, Southern California Bight Regional Marine Monitoring Chemistry Technical Committee (1995-2002)
Co-Chair, Southern California Stormwater Monitoring Coalition (2001-present)
King County Washington, Expert Panel on Water Quality Monitoring and Assessment (2013-2017)
California Water Quality Monitoring Council (2012-present)
Dean's Advisory Council, Department of Natural Resources, California State University Fullerton (2010-2016)
Editor, SCCWRP Annual Report (2011, 2013)
National Conference Planning Committees:

International Water Association (IWA) Diffuse Pollution Conference 2017
California Stormwater Quality Association (CASQA) Annual Conference 2015, 2016
Society of Environmental Toxicology and Chemistry North America Annual Meeting (SETAC) 2012
Water Environment Research Foundation (WERF) Total Maximum Daily Load Specialty
Conference 2007, 2009, 2011
National Water Quality Monitoring Conference 2019
National Stormwater Conference

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, 2007, 2008, 2018)
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)

Professional Societies and Certifications

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

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.

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.

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

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.

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.

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.

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.

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.

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.

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.

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.

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.

Sabin, L.D., K.A. Maruya, W. Lao, D.W. Diehl, D. Tsukada, K.D. Stolzenbach, K.C. Schiff. 2010. Exchange of polycyclic aromatic hydrocarbons among the atmosphere, water, and sediment in coastal embayments of southern California, USA. *Environmental Toxicology and Chemistry* 29:265-274.

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Schiff, K.C., M. Sutula. 2004. Organophosphorus Pesticides in Storm-Water Runoff from Southern California (USA). *Setac Press* 23:1815-1821.
- 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.
- Kamer, K., P. Fong, R.L. Kennison, K.C. Schiff. 2004. The relative importance of sediment and water column supplies of nutrients to the growth and tissue nutrient content of the green macroalga *Enteromorpha intestinalis* along an estuarine resource gradient. *Aquatic Ecology* 38:45-56.
- Schiff, K.C., D.W. Diehl, A. Valkirs. 2004. Copper emissions from antifouling paint on recreational vessels. *Marine Pollution Bulletin* 48:371-377.
- Schiff, K.C., S.M. Bay. 2003. Impacts of stormwater discharges on the nearshore benthic environment of Santa Monica Bay. *Marine Environmental Research* 56:225-243.
- 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.
- Ackerman, D., K.C. Schiff, H. Trim, M. Mullin. 2003. Characterization of water quality in the Los Angeles River. *Bulletin of Southern California Academy of Sciences* 102:17-25.
- 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.
- Bay, S.M., B.H. Jones, K.C. Schiff, L. Washburn. 2003. Water quality impacts of stormwater discharges to Santa Monica Bay. *Marine Environmental Research* 56:205-223.
- 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.
- Ackerman, D., K.C. Schiff. 2003. Modeling storm water mass emissions to the Southern California Bight. *Journal of Environmental Engineering* 129:308-317.
- Schiff, K.C., S.M. Bay, C. Stransky. 2002. Characterization of stormwater toxicants from an urban watershed to freshwater and marine organisms. *Urban Water* 4:215-227.
- Schiff, K.C., S.B. Weisberg, V. Raco-Rands. 2002. Inventory of ocean monitoring in the Southern California Bight. *Environmental Management* 29:871-876.
- Leecaster, M.K., K.C. Schiff, L.L. Tiefenthaler. 2002. Assessment of efficient sampling designs for urban stormwater monitoring. *Water Research* 36:1556-1564.
- Schiff, K.C., S.B. Weisberg, J.H. Dorsey. 2001. Microbiological monitoring of marine recreational waters in southern California. *Environmental Management* 27:149-157.
- Schiff, K.C., P. Kinney. 2001. Tracking sources of bacterial contamination in stormwater discharges to Mission Bay, California. *Water Environment Research* 73:534-542.
- Schiff, K.C., M.J. Allen. 2000. Chlorinated Hydrocarbons in flatfishes from the Southern California, USA, Bight. *Environmental Toxicology and Chemistry* 9:1559-1565.
- Schiff, K.C., M.J. Allen, E.Y. Zeng, S.M. Bay. 2000. Southern California. *Marine Pollution Bulletin* 41:76-93.
- Schiff, K.C. 2000. Sediment chemistry on the mainland shelf of the Southern California Bight. *Marine Pollution Bulletin* 40:268-276.
- Noble, R.T., J.H. Dorsey, M. Leecaster, V. Orozco-Borbon, D. Reid, K.C. Schiff, S.B. Weisberg. 2000. A regional survey of the microbiological water quality along the shoreline of the Southern California Bight. *Environmental Monitoring and Assessment* 64:435-447.
- Skinner, L., A. de Peyster, K.C. Schiff. 1999. Developmental effects of urban storm water in Medaka (*Oryzias latipes*) and inland silverside (*Menidia beryllina*). *Archives of Environmental Contamination and Toxicology* 37:227-235.

Schiff, K.C., S.B. Weisberg. 1999. Iron as a reference element in southern California coastal shelf sediments. *Marine Environmental Research* 48:161-176.

Schiff, K.C., M. Stevenson. 1996. San Diego Regional Storm Water Monitoring Program: Contaminant inputs to coastal wetlands and bays. *Bulletin of the Southern California Academy of Sciences* 95:7-16.

Book Chapters

Schiff, K.C., K. McLaughlin, S.L. Moore, Y. Cao. 2019. Southern California Bight. in: C. Sheppard (ed.), *World Seas: An Environmental Evaluation* pp. 465-482. Academic Press. London, UK.

Schaffner, R.A., S.J. Steinberg, K.C. Schiff. 2015. A GIS Tool to Compute a Pollutant Exposure Index for the Southern California Bight. in: D.J. Wright (ed.), *Earth Solutions, Ocean Solutions* pp. 109-133. Esri Press. Redlands, CA.

Schiff, K.C., M.J. Allen, E.Y. Zeng, S.M. Bay. 2000. Southern California. in: C.R.C. Sheppard (ed.), *Seas at the Millenium: An Environmental Evaluation - Volume I: Regional Chapters: Europe, The Americas and West Africa* pp. 385-404. Elsevier Science. New York, NY.

Bay, S.M., K.C. Schiff, D.J. Greenstein, L.L. Tiefenthaler. 1997. Stormwater Runoff of Santa Monica Bay: Toxicity, Sediment Quality, and Benthic Community Impacts. in: O.T. Magoon, H. Converse, B. Baird, M. Miller-Henson (eds.), *California and the World Ocean '97* pp. 900-921. American Society of Civil Engineers. Reston, VA.

Schiff, K.C., D.J. Reish, J.W. Anderson, S.M. Bay. 1992. A comparative evaluation of produced water toxicity. in: J.P. Ray, F.R. Engelhart (eds.), *Produced Water* pp. 199-207. Plenum Press. New York, NY.

Technical Reports

Du, B., C.S. Wong, K. McLaughlin, K.C. Schiff. 2020. Southern California Bight 2018 Regional Monitoring Program: Volume II. Sediment Chemistry. Technical Report 1130. Southern California Coastal Water Research Project. Costa Mesa, CA.

Parks, A.N., D.J. Greenstein, K. McLaughlin, K.C. Schiff. 2020. Southern California Bight 2018 Regional Monitoring Program: Volume I. Sediment Toxicity. Technical Report 1117. Southern California Coastal Water Research Project. Costa Mesa, CA.

Fassman-Beck, E., K.C. Schiff, D. Apt. 2020. Evaluating Potential Methods to Quantify Stormwater Capture. Technical Report 1116. Southern California Coastal Water Research Project. Costa Mesa,

CA.

Chiotti, D., L. Ritter, D. Schlenk, C. Wilen, K.C. Schiff. 2020. Alternatives to Glyphosate for Vegetation Management in Los Angeles County. Technical Report 1103. Southern California Coastal Water Research Project. Costa Mesa, CA.

Gillett, D.J., L. Gisbane, K.C. Schiff. 2019. Benthic Infauna of the Southern California Bight Continental Slope: Characterizing Community Structure for the Development of an Index of Disturbance. Technical Report 1096. US Department of the Interior, Bureau of Ocean Energy Management. Camarillo, CA.

Steele, J.A., D. Ebentier, A.G. Zimmer-Faust, J.F. Griffith, K.C. Schiff. 2019. Los Coches Creek Microbial Source Tracking Study. Technical Report 1087. Southern California Coastal Water Research Project. Costa Mesa, CA.

Beck, M., R.D. Mazor, S. Theroux, K.C. Schiff. 2019. The Stream Quality Index: A Multi-Indicator Tool for Enhancing Environmental Management Communication. Technical Report 1080. Southern California Coastal Water Research Project. Costa Mesa, CA.

Afrooz, N., M. Beck, T. Hale, L. McKee, K.C. Schiff. 2019. BMP Performance Monitoring Data Compilation to Support Reasonable Assurance Analysis. Technical Report 1081. Southern California Coastal Water Research Project. Costa Mesa, CA.

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